GOVERNMENT OF HIMACHAL PRADESH Himachal Pradesh Forest Department

Himachal Pradesh Forests for Prosperity Project The World Bank assisted

SOCIAL ASSESSMENT and MANAGEMENT FRAMEWORK

Soccial Assessment, Social Management Framework and Resettlement Policy Framework Final Report November 2018

Submitted By
Samaj Vikas Development Support Organisation
with
Center for Excellence in Management and Technology Pvt. Ltd.

Table of Contents

	List of Tables	8
	List of Boxes	. 10
	List of Figures	. 11
	List of Acronyms	
	Acknowledgements	. 16
	Executive Summary	. 17
1.	Introduction	. 30
	1.1 Himachal Pradesh - Background	. 30
	1.2 Himachal Pradesh Forests for Prosperity Project	. 30
	1.2.1 Project Development Objective	31
	1.3 Project Components	. 31
	1.3.1 Component 1. Institutional Reform and Capacity Building for	
	Integrated Watershed Management (IWM) and Improved Forest Management 32	ent
	1.3.1.1 Subcomponent 1A: Building consensus for integrated watershed	
	management	. 32
	1.3.1.2 Subcomponent 1B: Institutional reform and strengthening of the	
	Himachal Pradesh Forest Department	. 32
	1.3.2 Component 2. Improved Investments in Participatory and	
	Sustainable Land and Water Management	. 33
	1.3.2.1 Subcomponent 2A: Improved planning for participatory and	
	sustainable land and water management	. 34
	1.3.2.2 Subcomponent 2B: Implementation of participatory and sustainable	
	land and water management investments	
	1.3.3 Component 3. Strengthened and Inclusive Value Chains for NTFPs	
	and Other Commodities	
	1.3.3.1 Subcomponent 3.A: Creating enhanced market opportunities for NTF	
	and other commodities	
	1.3.3.2 Subcomponent 3.B: Increasing sustainable collection/production and	
	linking producers to markets	. 36
	1.3.4 Component 4. Institutional Coordination and Project Management	
	1.3.4.1 Subcomponent 4A: Institutional coordination	
	1.3.4.2 Subcomponent 4B: Project management	
	1.4 Project Beneficiaries	. 38
	1.5 The World Bank's Forest Action Plan – Role of Forests in increasing	
	Shared Prosperity	
	1.6 Social Assessment – Purpose and Objective	
	1.6.1 Scope of the Assignment	
_	1.6.2 Approach and Methodology	
2.	Social Baseline	
	2.1 Profile of the state	12

	2.2	Geography	45
	2.2.1	Relief and drainage	
	2.2.2	Soils	45
	2.2.3	Rivers	46
	2.2.4	Land Use Pattern	46
	2.3	Demography	47
	2.3.1	Age Group wise Distribution	47
	2.3.2	SC Population	48
	2.3.3	ST Population	49
	2.3.4	Population Density	49
	2.3.5	Life Expectancy at birth	49
	2.4	Education	50
	2.5	Employment	51
	2.6	Agriculture	53
	2.6.1	Manufacturing	55
	2.6.2	Land Holdings	55
	2.7	Resources and power	56
	2.8	Transportation	57
	2.8.1	Road Network	57
	2.8.2	Railway transport	57
	2.9	Forests	58
	2.9.1	Participation in forest management for livelihood	59
	2.9.2	Outturn of Forests	
	2.10	Climate Change Issues	62
	2.10.	l Impact on Forests	63
	2.10.2	2 Bio-diversity	63
	2.10.3	3 Water Resources	63
	2.11	Cultural life	64
3.	Le	gal and Policy Framework	65
	3.1	Introduction	65
	3.2	Some Important Legal Provisions Related to Forest Management,	
	Depe	endents and Tribal Interests	66
	3.3	Status of Tribal Communities in HP	84
	3.4	Provision of Scheduled Areas under 5th Schedule of the Constitution	85
	3.4.1	Scheduled Areas:	85
	3.4.2	Fifth Schedule Areas	85
	3.4.3	Purpose and Advantage of Scheduled Areas:	85
	3.4.4	Modified Area Development Approach (MADA), Pockets and cluste	rs
		86	
	3.5	ITDPs and MADA Clusters in HP	86
	3.5.1	Pockets of Tribal Concentration	
	3.5.2	Dispersed Tribes in Non-Scheduled Areas	87
	3.6	World Bank Operational Policies	
4.	Im	pact Assessment - Surveys and Consultations	90
	4.1	Sampling Details - Household Surveys	
	4.2	Profile of HH Surveyed	

Social Assessment and Management Framework – Final Report	November 2018
4.2.1 General Profile	90
4.2.2 HH Structure	92
4.2.3 Social Category	92
4.2.4 Economic Category	93
4.2.5 Literacy	
4.2.6 Workforce	95
4.3 Asset Holding	96
4.3.1 Land Ownership	96
4.3.2 Landholding	96
4.3.3 Livestock holding	97
4.3.4 Other Assets	98
4.4 Housing	98
4.4.1 Ownership	99
4.4.2 Roofing	99
4.5 Agricultural Production	
4.6 Dependence on Forests	
4.6.1 Fodder Collection	
4.6.2 Timber Collection	
4.6.3 NTFP Collection	
4.7 Participation in Forest Operations	
4.7.1 Plantations	
4.7.2 Participation in Nurseries and Plantations	
4.7.3 Forest Fires	
4.8 Employment and Migration	
4.8.1 Employment Opportunities	108
4.8.2 Migration	
4.9 Conflicts and Resolution	111
4.10 Grievance Redressal	
4.11 Expectations from the Project/ Department	112
4.12 Gender Roles	114
4.12.1 Participation	114
4.12.1.1 Agriculture	114
4.12.1.2 Livestock Rearing	115
4.12.1.3 NTFP Collection	115
4.12.1.4 Trade and Business	116
4.12.1.5 Household Tasks	117
4.12.2 Decision Making	117
4.12.2.1 Financial Matters	117
4.12.2.2 HH Activities	118
4.12.2.3 Land and Property	119
4.13 Consultations and Disclosure	
4.13.1 Sale of Excess Produce	
4.13.2 Participation in Forest Management	
4.13.3 NTFP Collection	
4.13.4 Storage Facilities and Sale of NTFP and Agricu	ltural Products123
-	

	4.13.5	Timber Distribution	123
	4.13.6	Forest Fire	124
	4.13.7	Lantana Menace	125
	4.13.8	Eco-Tourism	125
	4.13.9	Conflict Resolution and Grievance Redressal	125
	4.13.10	Expectations of villagers	126
	4.13.10.1	-	
	4.13.10.2	·	
	4.13.10.3	Fire Warning and Control Systems	126
	4.13.10.4		
	4.13.10.5	Slope Stabilization and Protection against Landslide	126
	4.13.10.6		
	4.14	Institutional Assessment	127
	4.14.1	Forest-specific village institutions	127
		The Gram Panchayat (GP)	
		The Government of HP	
	4.14.4	HP Forest Department and State Forest Development Corporation	128
	4.14.5	Current Capacity	
	4.14.6	Current gaps in Capacities	
		Addressing the Gaps	
5.		t Impacts and Risks	
	,	pacts due to Project Interventions	
		oject Risks and Mitigation Measures	
6.		Management Framework	
		troduction	
		inciples of the SMF	
		reening for Adverse Social Impacts	
7.		lement Policy Framework	
		troduction	
	7.1.1		
		nd Requirement	
		sual Practice	
		otions for HPFFP	
	7.4.1	Option 1: Land Acquisition using LA Act 2013	
	7.4.2	Option 2: Direct Purchase	
	7.4.3	Option 3: Voluntary Land Donation	
		ompensation for Structures and other Assets	
		tegories and Identification of PAFs	
	7.6.1	Categories of Project Affected Families	
	7.6.2	Cut-Off Date	
	7.6.3	Identification of PAFs	
		luation of Structures and Assets and loss of livelihoods	
		ititlement Matrix	
	7.8.1	Minimum R&R Entitlements under RTFCTLARR Act 2013	
	7.8.2	Special Provisions for SCs and STs	

	7.9	Griev	ance Redress Mechanism (GRM)	155
	7.9		Objective of the GRM	
	7.9	.2	Grievance Redress Committee (GRC)	155
	7.9		Chief Project Director, SPMU Level	
	7.9		Project GR Committee (PGRC)	
	7.9		Legal Options to PAFs	
	7.9		Grievance Redress Service of The World Bank	
	7.9		Documentation of the GRM Processes	
	7.10	So	cial Inclusion Strategy	158
	7.1		Consultation	
	7.1	0.2	Stakeholder Participation	159
	7.1		Selection of Individual Beneficiaries	
	7.1		Information and knowledge Sharing	
	7.1		Special Attention to Women and Other Vulnerable Groups	
	7.11		tizen Engagement Strategy	
	7.1		Participatory planning, implementation and monitoring	
	7.1		Feedback - ICT	
	7.1		Support to grievance redressal	
	7.12		nder Strategy	
	7.1		Information on Women	
	7.1		Participation - Actions to be taken	
	7.13		plementation Arrangements	
	7.14		onitoring	
	7.1		SMF supervision	
	7.1		Social Indicators	
	7.1		Quarterly Monitoring	
	7.1		Monitoring Plan	
	7.15		pacity Building Strategy	
	7.1		Objectives	
	7.1		Approach	
	7.1		Training Providers	
	7.1		Details of Training Programs	
	7.1		T1. Orientation/ Learning Training Programs	
	7.1		T2. Training on the SMF and Management Plans	
	7.1		T3. Training on Social Management	
	7.1		Training Budget	
	7.16		dget	
	7.17		eans of Disclosure	
8.			es	
	8.1		exure 1: List of Commercially Identified Forest Produce in HP	
	8.2		exure 2: Animal Species and their Status	
	8.3		exure 3: National Parks and Sanctuaries in HP	
	8.4		exure 4 – Social Screening Format	
	8.5		exure 5: Format for Voluntary Land Donation	
	8.6		exure 6: Summaries of Community Consultations (CC)	

November 2018

8.7 Annexure 7: Summary of Public Consultation and Disclosure Workshop 205

List of Tables

Table 1: Geographic and Administrative data and Development Indicators	
Table 2: Land Use Pattern of the State (Area in '000 ha) of HP	46
Table 3: District wise Distribution of Rural and Urban Population in HP	47
Table 4: District wise Age Group wise Distribution of Population in HP	48
Table 5: District wise distribution of SC Population in HP	48
Table 6: District wise Distribution of ST Population in HP	49
Table 7: Literacy Rate in Rural and Urban areas of HP	
Table 8: Workers and Main Workers Population (in '000) in HP	
Table 9: District wise Distribution of Marginal Workers in HP	
Table 10: District Wise Distribution of Non-Workers in HP	
Table 11: District wise Distribution of Land available for Agriculture in HP	53
Table 12: Main Workers Engaged in Agriculture and Allied Activities	
Table 13: Distribution of Landholding by Area in HP	
Table 14: Forest Cover in Himachal Pradesh (Area in km²)	
Table 15: Area under National Parks, Sanctuaries and Conservation Reserves	
Table 16: Village Institutions formed under Different Projects in HP	
Table 17: Outturn of Forests in HP	
Table 18: Top 10 Timber producing states in India	
Table 19: Some Important Legal Provision related to Forest Management	
Table 20: World Bank Operational Policies and their Applicability	
Table 21: Sample Details – HH surveys	
Table 22: HH Surveyed	
Table 23: Distribution of Households Based on Vulnerability	
Table 24: HH Size and Sex Ratio	
Table 25: Distribution of Family Members based on Social Category	
Table 26: Distribution of HH.	
Table 27: Literacy Rates of the Study Sample	
Table 28: Level of Education	
Table 29: Worker Population	
Table 30: Number of Land Holdings based on size	
Table 31: Average Landholding per Household (ha)	96
Table 32: Livestock Holding of HH	
Table 33: Other Asset Holdings of HH	98
Table 34: Houses based on Construction Type	98
Table 35: District wise Ownership of house	
Table 36: Distribution of Houses based on Roof Type	100
Table 37: Per Capita Production of Crops (Kg/person)	
Table 38: Villages and Forest Ranges	101
Table 39: Dependence on Forest for Fodder	102
Table 40: Distribution of HH based on Source of Fodder	
Table 41: Frequency of Collection of Fodder	103
Table 42: Source of Timber for Domestic Purpose	
Table 43: Awareness about Plantation Operations	
Table 44: Participation in Plantation Operations	
Table 45: Participation in Nursery Operations	

Social Assessment and Management Framework – Final Report	November 2018
Table 46: Role in Controlling Forest Fires	108
Table 47: Availability of Employment Opportunities	109
Table 48: Migration of HH members	109
Table 49: Migration of Male Members	110
Table 50: Migration of Female Members	111
Table 51: Sample Village and Community Expectations from the Project/D	Department 112
Table 52: Participation in Cultivation	114
Table 53: Participation in Livestock Rearing	115
Table 54: Participation in NTFP Collection	116
Table 55: Participation in Trade and Business	116
Table 56: Participation in Household Tasks	117
Table 57: Decision Making in Financial Matters	118
Table 58: Decision Making in HH Activities	118
Table 59: Decision Making Related to Land and Property	119
Table 60: Village wise Participation during Community Consultation	120
Table 61: Likely Social Impacts due to Project Interventions	131
Table 62: Project Risks and Mitigation Measures	136
Table 63: Process of voluntary donation of land	144
Table 64: Entitlement Matrix	150
Table 65: Grievance Redressal Mechanism	157
Table 66: Monitoring Indicators	165
Table 67: List of Training Programs	168
Table 68: Training Budget	1.00
Table 69: Total administrative budget for environmental and social manage	ement activities

Government of Himachal Pradesh
Himachal Pradesh Forests for Prosperity Project (The World Bank assisted)
Social Assessment and Management Framework – Final Report

November 2018

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	11. O.L.	171	.,	UXES

List of Figures

Figure 1: Adminis	strative Divisions and	d Boundaries of Him	nachal Pradesh	44
Figure 2: Forest N	Map of HP			64

List of Acronyms

APL Above Poverty Line

ARAP Abbreviated Resettlement Action Plan

BC Backward Class

BDA Biological Diversity Act
BDO Block Development Officer

BMCs Biodiversity Management Committees

BP Bank Policy

BPL Below Poverty Line

CAMPA Compensatory Afforestation Management and Planning Authority

CAT Command Area Treatment
CATP Catchment Area Treatment Plan
CBOs Community Based Organisations

CC Community Consultations
CCA Community Conserved Area

CCAT Comprehensive Catchment Area Treatment

CF Community Facilitator
CPD Chief Project Director

CPRs Common Property Resources

CRMC Community Reserve Management Committee

CUG Community User Group

DFID Department for International Development

DFO Divisional Forest Officer
DPR Detailed Project Report

EBC Economically Backward Class

EC Essentiality Certificate

EDCs Eco-Development Committees

EMF Environmental Management Framework

FAP Forest Action Plan

FCA Forest Conservation Act

FDA Forest Development Authority
FDCs Forest Development Committees
FFC Fourteenth Finance Commission

FGD Focus Group Discussion
FHH Female Headed Household
FPCs Forest Protection Committees
FPIC Free Prior Informed Consent

FRA Forest Rights Act

FRFI Functional Review of Forest Institutions

FSR Forest Sector Review GHG Green House Gases

GHNP Great Himalayan National Park
GoHP Government of Himachal Pradesh

Social Assessment and Management Framework – Final Report

November 2018

GoI Government of India GP Gram Panchayat

GRC Grievance Redress Committee GRM Grievance Redress Mechanism

GS Gram Sabha Ha Hectare HH Household

HP Himachal Pradesh

HPFD Himachal Pradesh Forest Department HPFP Himachal Pradesh Forestry Project

HPFPP Himachal Pradesh Forests for Prosperity Project

HRTC Himachal Road Transport Corporation

IA Implementing Agency

ICT Information Communication Technology IEC Information, Education, Communication

IFA Indian Forest Act

IGA Income Generation AssetsIGCP Indo-German Changar Project

INR Indian Rupees

IPDP Indigenous People Development Plan

IPR Intellectual Property Rights

ITDP Integrated Tribal Development Project IWD Integrated Watershed Development

IWDP Integrated Watershed Development Project

JFM Joint Forest Management

JFMC Joint Forest Management Committee

LA Land Acquisition

MADA Modified Area Development Approach

MAPs Medicinal and Aromatic Plants

MFPs Minor Forest Produce

MGNREGA Mahatma Gandhi National Rural Employment Guarantee Act.

MSL Mean Sea Level

NAEB National Afforestation and Eco-Development Board

NAP National Afforestation Program NDC National Development Council

NFP National Forest Policy

NGO Non-Governmental Organization

NH National Highway
NOC No Objection Certificate
NTFP Non-Timber Forest Products

OP Operational Policy

PA Project Area

PAF Project Affected Family
PAP Project Affected Person

Social Assessment and Management Framework – Final Report

November 2018

PBR	Plant Breeders Rights

PCCF Principal Chief Conservator of Forest

PCRs Physical Cultural Resources
PDO Project Development Objective

PESA Panchayat Extension to Scheduled Areas

PFM Participatory Forest Management

PG Post-Graduation

PGRC Project Grievance Redress Committee

PIU Project Implementation Unit

PPCP Public-Private Community Partnership

PRIs Panchayat Raj Institutions
R&R Rehabilitation & Resettlement
RAP Resettlement Action Plan
RCC Reinforced Cement Concrete

RFCTLARR Right to Fair Compensation and Transparency in Land Acquisition

Act. and Rehabilitation and Resettlement Act.

RPF Resettlement Policy Framework

S.Sec. Senior Secondary
SA Social Assessment

SA&MF Social Assessment & Management Framework

SBB State Biodiversity Board

SC Scheduled Caste

SCA Special Central Assistance
SDG Sustainable Development Goal
SFDA State Forest Development Agency
SLSC State Level Steering Committee
SMF Social Management Framework
SPMU State Project Management Unit

SR Schedules of Rates

SSMP Site Specific Management Plan

ST Scheduled Tribe
SVY Sanhi Van Yojana
TA Technical Assistance
TAC Tribes Advisory Council
TD Timber Distribution

TDF Tribal Development Framework

TDP Tribal Development Plan
TDS Timber Distribution System

TFR Total Fertility Rate
TSP Tribal Sub-Plan

UNESCO United Nations Educational, Scientific and Cultural Organization

VCDCValue Chain Development CellVDCVillage Development CommitteeVEDCVillage Eco-Development Committee

November 2018

VFCs	Village Forest Committees			
VFDC	Village Forest Development Committee			
VFDS	Village Forest Development Society			
VSJS	Van Samriddhi-Jan Samriddhi scheme			
WB	World Bank			
WHH	Women Headed Households			
WPA	Wildlife Protection Act			
WSHGs	Women Self Help Groups			

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Dr. BKD Raja Study Team Leader

November 2018

Executive Summary

Social Assessment

Himachal Pradesh Forest for Prosperity Project

Since forests produce a range of ecosystem services, they need to be managed for multiple benefits, not just for timber, but to maximize economic benefits for different stakeholders while managing these forests sustainably. In order to do this, Government of Himachal Pradesh is developing the Himachal Pradesh Forests for Prosperity Project, with Department of Forests as the main implementing agency. The Project seeks to improve forest management and communities' access to markets in selected watersheds in Himachal Pradesh. The project target areas includes 7 districts, 10 forest divisions and 21 forest ranges; though the component 1 will cover the entire state. The project components are 1) Institutional Reform and Capacity Building for Integrated Watershed Management (IWM) and Improved Forest Management comprising of a) Building consensus for integrated watershed management and b) Institutional reform and strengthening of the Himachal Pradesh Forest Department, 2) Improved Investments in Participatory and Sustainable Land and Water Management comprising of a) Improved planning for participatory and sustainable land and water management and b) Implementation of participatory and sustainable land and water management investments (Soil and water conservation measures, Development of high-quality seed stands, Nursery development, Plantation management, Pasture management and Forest fire prevention and suppression), 3) Strengthened and Inclusive Value Chains for NTFPs and Other Commodities consisting of a) Creating enhanced market opportunities for NTFPs and other commodities, b) Increasing sustainable collection/production and linking producers to markets and 4) Institutional Coordination and Project Management consisting of a) Institutional coordination and b) Project management. Key project beneficiaries include communities living in forest areas, especially women and NTFP collectors, as well as nomadic/transhumant/pastoral communities, who will benefit from improved access to and value from NTFPs, including fodder, medicinal and aromatic plants, and fruit trees. The project will also increase the skills and capacity of the HPFD and other government officials, as well as private companies involved in the selected value chains.

Social Assessment

A detailed assessment was undertaken to understand the existing and potential social risks and issues that the project is likely to face during design and implementation. Based on a detailed secondary literature review, and primary data collection, it has analyzed the states performance on key socio-economic indicators, its policy-legal environment related to social aspects of the project investments, capacities of implementing agencies to manage these social issues and risks and assessed to what extent the state's systems and processes are geared to avoid, address or mitigate these likely risks and impacts. This assessment has been used to develop a Social Management Framework (SMF) and Tribal Development Plan (TDP) for mitigating or avoiding adverse social impacts and for enhancing social benefits emerging from the project. The social assessment and management framework has been developed based on the principles of equity, social and gender inclusion, participation, transparency, accountability, good governance and appropriate land management. While initial assessments don't show requirement of private lands for the project, as most of the land used will be either forest or government land, a Resettlement

November 2018

Policy Framework has been developed keeping in mind any possible, future land requirements.

Profile of the state

Himachal Pradesh has geographical area of 55,673 sq. km. and constitutes nearly 11 percent of the total area of Himalayas. Nearly 30 percent of its geographical area is permanently under snow and more than 66 percent is designated as forest - with nearly 15 percent falling within the Protected Area (PA) network. It has a total population of 68,64,602 (34,81,873 males and 33,82,729 females), with a population density of 123 as per 2011 Census. This is only 0.57 per cent of India's total population, recording a growth of 12.81 per cent. The Scheduled Caste population stands at 17,29,252 (25.19%) and the Scheduled Tribes population stands at 3,92,126 (5.71%). The Total Fertility Rate (TFR) per woman is 1.8, one of lowest in India. The Sex Ratio is 972 as against national average of 933. . The infant mortality rate stood at 40 in 2010, while its crude birth rate has declined from 37.3 in 1971 to 16.9 in 2010, well below the national average of 26.5 in 1998. The crude death rate was 6.9 in 2011. The life expectancy at birth in Himachal Pradesh is 72 years, higher than the national average of 68 years. The state's literacy rate is 83.78% (Male 90.83% and Female 76.6%). Himachal ranks $3^{
m rd}$ in the entire country in terms of literacy in rural and urban areas while the state with overall literacy level of 83% ranks 4th in overall literacy level closely following Kerala (91%), Mizoram (89%) and Lakshadweep (87%) - the three top ranking states. About 90% of the population lives in rural areas. The population density per square kilometer of area has nearly doubled over the last forty (40) years. As per Census 2011, population density recorded was 123 persons per sq. km., which is almost double of 62 as recoded in the year 1971.

Out of a total of around 6.9 million people in the state only around 52% are engaged in some sort of economic activities, of which 58% are Main Workers. Only 18% of the female population and 41% males are categorized as Main Workers. About 71% of total workers are Main Workers among male population while only 41% of the female work force qualifies as Main Workers-, suggesting under-employment among women. 42% of the total work force of the state falls under the category of Marginal Workers. About 17% of the total male population and 26% of female population falls under this category.

Agriculture is the main occupation of the people of the state. About 69 per cent of the main workers are engaged in agricultural pursuits. Agriculture is beset with the disadvantage of small holdings, low productivity, poor irrigation facilities and low market infrastructure. Only 75 per cent of the total reporting area is available for cultivation. Most people in Himachal Pradesh depend for their livelihood on agriculture, pastoralism, transhumance (seasonal herding), horticulture, and forestry. Out of the total geographical area of 55.67 lakh hectare the area of operational holdings is about 9.55 lakh hectares and is operated by 9.61 lakh farmers. The average holding size is about 1.00 hectare.

The state has road network of 28,208 km (17,528 mi), including eight National Highways (NH) that constitute 1,234 km (767 mi) and 19 State Highways with a total length of 1,625 km (1,010 mi). Road transport is the principal mode of transportation in Himachal Pradesh. Passenger Transport is managed by a Government Owned Himachal Road Transport Corporation (HRTC). As on 31st March, 2016 this Corporation had 2,735 buses, 19 trucks and 73 other vehicles.

The fairs and festivals of the rural communities, especially in the Kullu valley attract pilgrims as well as tourists from neighboring states and from within Himachal Pradesh in large numbers. The town of Dharmshala has more recently emerged as a sacred site, particularly for Tibetan Buddhists; it was in Dharmshala that the Dalai Lama settled after he fled from Tibet in 1959 in the wake of China's occupation of Lhasa. Aside from their festivals and sacred sites, the Shimla hills, the Kullu valley (including the town of Manali), and Dalhousie are popular tourist destinations, especially for outdoor recreation. Indeed, skiing, golfing, fishing, trekking, and mountaineering are among the activities for which Himachal Pradesh is ideally suited.

Rivers which flow through this State are Beas in Kullu, Mandi and Kangra districts, Satluj in Kinnaur, Shimla and Bilaspur districts, Yamuna has its tributaries in Shimla and Sirmaur districts, Chenab (Chander Bhaga) flows through Lahaul-Spiti and Chamba districts and Ravi through Chamba district. The Land Use and Land Cover Distribution of the state indicate that 24% of the land area is occupied by Forests and 33% land is occupied by grass and shrubs which acts as pastures. Agricultural land accounts to 13% of the total geographic area of the state While 17% is un-culturable, barren land. About 80 percent of this part of Inner Himalayas is under pastures, with cultivated and forested areas only spread over 10 percent of land, and inhabited mainly by transhumant, indigenous communities that use these alpine pastures for grazing their livestock during summers.

The forests of the State have been classified on an ecological basis, as laid down by Champion and Seth, and can be broadly classified into Coniferous Forests and broadleaved Forests. Distribution of various species follows fairly regular altitudinal stratification. The vegetation varies from Dry Scrub Forests at lower altitudes to Alpine Pastures at higher altitudes. In between these two extremes, distinct vegetation zones of Mixed Deciduous Forests, Bamboo, Chil, Oaks, Deodar, Kail, Fir and Spruce, are found. The richness and diversity of flora can be gauged from the fact that, out of total 45,000 species found in the country 3,295 species (7.32%) are reported in the State. Most people in HP living on forest fringes use significant quantities of forest goods and services, for some of which there is no available substitute and for which they are totally dependent on forest products.

Himachal Pradesh is also facing severe impacts of climate change as temperatures are rising and rainfall, snowfall are becoming erratic- affecting forests, agriculture, horticulture and livelihoods. The monsoon in state is increasing but overall rainfall is on a decline. The glaciers which are direct indicators of climate change show that due to increase in temperatures, in Spiti valley, deglaciation has been to the extent of 10-12 percent between 2001 and 2007. Area under snow cover too has changed between October to June in six river basins. The decline in snow cover ranges between 5-37% for 2010- 2014 period as compared to 2015-16. Climate change has also affected quality as well as yield of the apple crop and increasing the vulnerability of communities. As a result, in recent years many farmers have shifted to growing other horticultural crops such as pomegranate and even vegetables like cabbage in their apple orchards. The immediate repercussions of climate change on forests are visible in the form of shifting of tree line to higher altitudes, movement of pine species to higher altitudes. A large scale shifting of forest biomes and severe impacts on biodiversity has been projected. This is also likely to increases the vulnerability of forest dependent communities for whom forest help in increasing resilience and help in adaptation to impacts of climate change.

Himachal Pradesh has around two decades of experience with the JFM approach. The state government issued the first JFM Notification in 1993 for constitution of Village Forest Development Committees (VFDCs). In 2001, Himachal Pradesh Participatory Forest Management Rules were issued for registration of Village Forest Development Societies (VFDSs) under the Societies Registration Act. Subsequently - 2002-03 onwards - JFMCs were constituted and federated into FDAs at the Forest Division level with support under National Afforestation Programme-NAP. The JFMCs are registered with HPFD as per the provisions of the NAP guidelines, whereas FDAs are registered as Societies. The SFDA was constituted in 2010 in accordance with the central guidelines.

Legal and Policy Framework

Some important legal and policy provisions of Government of India and Government of Himachal Pradesh include the Constitutional Safeguards, Indian Forest Act 1927, The Himachal Pradesh Transfer of Land (Regulation) Act, 1968, Himachal Pradesh Public Premises and Land (Eviction and Rent Recovery) Act, 1971, Wildlife (Protection) Act, 1972 and amendment 2002, Land Reforms Legislations - HP Village Common Land Vesting and Utilization Act, 1974, Forest (Conservation) Act, 1980, Panchayat (Extension to Scheduled Areas) Act 1996, Biological Diversity Act, 2002, Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013, etc. While some of these legal provisions safeguard the forests from over exploitation and advocates strict conservation and protection, there are other instruments that recognize the customary rights of over forest resources meet, their role in conservation and development, while some provisions try to strike a balance between the two by suggesting judicious use of forest resources and brining in community as the co- owners of forest along with the forest department.

World Bank Operational Policies Indigenous Peoples OP/BP 4.10 and Involuntary Resettlement OP/BP 4.12 applies to this project as tribals constitute more than 50% population of Kinnaur district (project area) and the transhumant communities move along designated routes along the Satluj river- from Shivalik range (foothills of Himalayas) to the upper reaches in summers, along established routes for pasture. The forests and highlands are home to several communities and social groupings that have lived in relative geographical isolation in these areas for protecting their cultural heritage and social fabric. As a result, these landscapes have significant cultural, historical as well as religious importance for these communities. OP 4.10 is triggered as access to pastures, traditional routes, etc. may be closed for enhancing the resource base and may have adverse livelihoods impact. Social assessment in consultation with trans-nomads and Scheduled Tribe will be undertaken to ensure compliance with Free Prior Informed Consent (FPIC) to prepare the Social Management Framework and Indigenous People Development Plan. Moreover, to ensure compliance with Panchayat Raj (Extension to Scheduled Areas), Act, specific consultations will be held in Scheduled V areas

Impact Assessment - Surveys and Consultations

This assessment surveyed a total of 502 Households (HH) in 11 villages. Among these around 55% HH were of the people from General Category 17% from SC and 28% from ST category and 13% were women Headed Households. Average Family size of the HH was 4 for the study sample and is quite comparable to the average HH size in the census. Out of a total of 2185 family members 52% belonged to the General Category while 20% of the members were from SC category and 28% belonged to ST category. SC and ST HH are predominantly found in Kinnaur district. Out of the total 504 HH surveyed 25% of them belonged to BPL category. The BPL category HH was identified based on the village list and Ration card copy of the HH. Literacy Levels of the population surveyed indicate that the average literacy of male population (83%) is higher than female literacy levels (75%). Though the 79% of population of the sample households is literate only 9% of people have completed graduation or above. Total worker population among study sample is 54% with 75% of males and 33% of females forming the workforce. The remaining 46% population is either old/ retired or still undergoing studies or belong to the "non-school going age group".

Most of the villagers were marginal farmers with land holdings of 2-5 bigha (1 bigha = 809 m²) approximately 0.3-0.4 ha and grew crops like wheat, maize, barley. Average household landholding was found to be 0.5 ha (6.2 bigha). Wheat, Maize, Peas, Potato, Rice, Barley, Pulses and Apple are the major cash crops grown in the study villages. Horticultural crops are grown for consumption within the household. 36% of the total households did not have any livestock holding. 64% of the remaining households had an average of 2 livestock animals per household. On an average each HH rears around 5 sheep on average and similarly around 4 goats and every 2 families had 3 cows and 1 buffalo on an average. 79% of the total households surveyed owned Television. 30% of the total households surveyed during the social assessment study had Kachcha houses made of wood, mud or stones 21% of the households had RCC/ concrete walls and thatched, tiled or sheets of tin, asbestos or wood. RCC structures (pucca) were 49% of the total household surveyed. 96% of the households had their own houses. Only 4% of the respondents surveyed confirmed that they resided in rented accommodation.

60% of the households surveyed during the assessment study stated that they visited forests for collection of fodder for their livestock. Procuring fodder from market was preferred by 54% of the respondent households surveyed as compared to collecting it from forests. Only 4% of the households surveyed stated that they are solely dependent on pastures for fodder. 25% of the households use roughage and crop residue of the crops cultivated on their own land. Consultations with communities brought out that degradation in forest quality, spread of invasive species had made fodder collection from forests more time consuming and difficult. 79% of the Households surveyed stated that they do not require timber now as they have their houses constructed and whenever they will have any requirement for construction purpose they would prefer to get it through the Timber Distribution System (TDS or TD as popularly known). Only 2% of the households confirmed to have received timber for construction of their houses through TDS.

NTFP collection was not confirmed by the respondents in any of the villages under the apprehension that they might be penalized for collecting the NTFPs from forest. However they stated that there are people in the village who go the forest for collection of NTFP from the forests. The NTFPs usually collected were Nag Chhatri, Gucchi (wild Mushrooms), Bar, Kakri, Bahera, Amla, Mustak etc. along with Dadu (wild pomegranates) and Chilgoza. Only 4 respondents openly stated that they would go to collect Katar Singe and Naag Chhatri

(restricted species) from the forest. However, almost all the respondents maintained that planting of medicinal plants, <u>Gucchi</u>, <u>Dadu</u>, good quality walnuts etc. would be beneficial for the community.

Plantations are carried out by the Forest Department on regular basis after the monsoon season. Out of the total 504 households surveyed during the assessment study only 12% of the respondents were aware of the plantation activities carried out in recent past, 88% of the households denied having any information on the plantation activities or the species planted in the forests. Only 5% of the households stated that the members of their family had participated in the plantation operations of the Forest Department wherein they were engaged as daily laborers for digging pits for the saplings to be planted, carrying saplings from the nursery to the plantation sites, watering the plants or other miscellaneous works. The villagers participating in the plantation activities are paid a daily wage rate of Rs. 210 – 220 as prescribed under the government norms. In the event of forest fires the villagers play an active role in informing the Forest Department and assisting them to get it extinguished. 90% respondents confirmed that they or one of their family member have actively participated in extinguishing forest fires. The HPFD is encouraging Fire Free Villages and giving an incentive of Rs. 5000/- to Fire Free Villages.

Lack of opportunities for employment and income generation was one of the major issues raised by the respondents in almost all villages. Members of the community in almost all the villages stated that the employment opportunities are scarce in their village. 16% of the respondents stated that employment opportunities are seasonal while 68% of the respondents denied any existing employment opportunities in the region. In almost all villages the members of the community depended on jobs available under MGNREGA. Male members of about 30% households seasonally migrate to cities, with 19% households reporting that migration of male members is often long term.

The respondents confirmed not having had a conflict with another member of the community or other communities over forest resources during the recent past. When asked about their interaction with the transhumants who have the forest rights the respondents both in the individual interviews and during the FGDs stated that the transhumant have permits to stay in the forest and they usually camp at the higher reaches of the forests and since they have the grazing rights they do not usually trespass into the village or private fields. Sometimes if any stray incidents have happened they were amicably sorted out through discussions and by engaging the PRI members of the village and having direct discussions with members of the transhumant community.

The respondents of the survey were unaware of the formal grievance redressal mechanism of the state however, in case of any complaints or issues related to a particular department the villagers would often approach the PRI member or contact the officials of the concerned department directly to register their complaint. In case their complaint was not addressed many were not aware where and how to escalate it to the higher level authority.

The expectations of the villagers from the project include- raising fruit bearing plants, fencing around the village to protect from wild animals, paths to forest, plantation in forest and local community members be engaged to ensure employment, plantation of fruit bearing trees and species of cultural/ economic importance to communities on plantation sites, construction of check dams/ irrigation facilities and slope stabilization works, conducting awareness campaigns/ training for villagers, participation in plantations and

nursery operations, participation in fire warning and control systems, protection against landslides, etc.

Community Consultations were conducted in the form of FGDs in each village to assess the economic dependence of the resident population on forest and assimilate their expectations from the Forest Department and the Project. A State-level Stakeholder Consultation and Disclosure Workshop was conducted on 15 October 2018 at Thana Kalan, District Una to seek feedback from the stakeholders. The findings of the consultations are related to state support for sale of excess produce, opportunities for participation of communities (employment) in Forest Management, support for NTFP collection, storage and sale of NTFP as well as agricultural products, more frequent timber distribution, etc. The relevant suggestions are incorporated into the report.

Gender Roles

Women play a significant and crucial role in agricultural development, forestry and allied fields including crop production, livestock rearing, horticulture, etc. As per the survey, in 90 percent households women are involved in the collection of NTFPs and fodder from the forests, though decisions on sale of surplus is largely taken by male counterparts in which women are consulted. Women of forest dependent communities face severe handicaps, including direct, adverse impact of depleting forest resources, responsibility for agricultural production as well as collection of forest resources in households which witness migration of male members.

Institutional Assessment

The externally supported projects and state-wide programs of participatory/ joint forest management, launched by the HPFD in 1998 encouraged the direct involvement of the communities in protection, conservation and maintenance of forests. Of these institutions, VFDSs are registered under the Societies Registration Act; while VFDCs, VDCs and VEDCs are registered by the District Forest Officer. Except for IWDP, where watershed was the unit for a VDC, a Gram Panchayat is generally the unit. VFDCs, VFDSs, VEDCs and VDCs all have a general 'house' membership and an executive. The GoHP sets policy and strategic direction for the forest sector, in line with state-wide priorities and national obligations. For example the current 'Vision 2020' exercise, envisioned for the Government of HP, incorporates the HP Forest Department's 'Vision' and will contribute to the overall national 'Vision'.

The Forest Department has traditionally performed a policing role for protection and management of forest and with shifts in national/ state forest policies in the last 2-3 decades it has now started working with communities. Whereas certain rights like access to fuel wood, fodder, NTFPs and timber for house construction, of communities settled near the forests were always recognized, they were also expected to help the department in exigencies like control of forest fires. Lady forest guards have also been recruited in recent years to have a better dialogue with female members of the community. While policies are in place to promote participation and community co-management, low departmental capacities and willingness to engage with communities is reflected in the status of community institutions. Of the total 1475 JFMCs formed till April 2014, only 963 were functional under 36 Forest Development Authorities- suggesting their weak mobilization

and gradual alienation. Also the state has so far been able to bring only a small portion of the forest area under joint management.

During the meetings and discussions with the HPFD and the project stakeholders certain gaps were identified in the capacity of HPFD to address the social issues, such as-low skills in social mobilization and undertaking community development works; lack of training of the field staff in participatory approaches; low willingness of field staff to shift from a policing to a co-management role and treat communities as equal stakeholders; deeply embedded mental models regarding communities and their contribution to conversation and forest protection; departmental workload due to which forest staff is unable to devote much time to interact with community members, etc.

The actions to address these gaps are; a) Engaging dedicated locally available educated community facilitators (including female staff), who would have greater access to women community members and skills for engaging with the communities, b) Training field and HPFD staff in participatory tools and techniques for eliciting participation, assessing needs, suggesting alternatives and providing local and community preferred solutions, c) Involving communities in forestry operations, including employing them in plantation and nursery development works apart from facilitating their participation in NTFP value chains and d) creating a dedicated system for grievance redress to handle community grievances arising out of project investments. Since this needs a long term change management process, in the short term, within the HPFFP, the PIU will need to employ persons with social and community development skills to augment its capacities. This should be in the form of recruiting a Social Safeguards Specialist in the SPMU, duly supported in the field by Community Facilitators. This will be in addition to capacity building support to be provided to the key PIUs, Range level and field staff on social development and management issues.

Project Impacts

The anticipated impacts due to the project interventions are; a) Requirement of land including some parcels of forest land which is unsettled under FRA, Land under evictions of encroachers are underway and being monitored by the HP High Court, b) Limited opportunities for participation in nursery operations and choice of species, c) Diminishing interest of communities in conservation due to reducing stakes, d) Restrictions to access to seed stands, restrictions on movement of community and cattle for grazing, d) Impacts on livelihoods of Transhumants/ Nomads either through temporary restrictions/ denial of access (for a few years) on pastures to be conserved/improved, e) Apprehension of forest department officials that transhumants/ nomads bring along invasive species into forests and pastures impacting the quality of forests and its bio-diversity, f) Potential resource conflicts among communities sharing pastures and forest resources, g) Limited community engagement, low involvement of forest related community institutions and lack of formalizing community role in forest activities -forest fires, forest protection and management, h) Complicated rules on access and benefit sharing, i) Low understanding within the community about their rights and entitlements vis-à-vis forests and forest resources.

Project risks identified by the assessment include -usage of land under disputes, exclusion of vulnerable groups, community ownership, inadequate role clarity, low HPFD social capacity, unaddressed grievances and information dissemination. These are to be mitigated

through the use of Screening mechanisms, operationalization of strategies for -Stakeholder Engagement, Capacity Building, Tribal Development, Inclusion of vulnerable communities including women (Gender Action Plan), development of monitoring indicators to track inclusion, participation and equitable access, IEC/ awareness generation and social mobilization to promote community participation, recruitment of Social Development and Safeguards Specialist and field level Community Facilitators and by establishing a dedicated GRM and systems for Citizens Engagement.

Social Management Framework

The Social Management Framework is prepared based on the assessment of social impacts and risks to guide the screening and preparation of plans and strategies as appropriate for the project interventions to be taken up under the project. This SMF comprises a) A Screening format for the project interventions, b) A Resettlement Policy Framework, c) Grievance Redressal Mechanism, d) Social Inclusion Strategy, e) Citizen Engagement Framework, f) Gender Strategy, g) Tribal Development Framework (Indigenous People's Development Framework, h) Monitoring Strategy, i) Capacity Building Strategy.

Screening for Adverse Social Impacts

All project interventions will be screened for land requirement. For this purpose a screening format is used. All land for planned interventions such as nurseries, plantation, storage facilities, etc. be undertaken on a) existing land available with HPFD, b) government land accessed through departmental transfer, c) land taken on lease under relevant legal provisions or d) through voluntary land donation by beneficiaries. All sites with unsettled forest rights, areas under eviction of encroachment (HP High Court), sites of cultural or religious significance, including those that restrict access to such sites, including community conserved areas, sacred groves, *deo bhumis* (with no alternate access routes) will be excluded from project investments.

Resettlement Policy Framework

The framework has been developed as enunciated in the national legislation, Right to Fair Compensation and Transparency in Land Acquisition and Rehabilitation and Resettlement Act 2013. The primary objective of this RPF is to provide better standard of living to the project affected families or at least restore their standard of living to that of before project. If the affected persons belong to Below Poverty Line (BPL) category before the project, then this RPF aims to bring them Above Poverty Line (APL).

Land Requirement

HPFPP proposes various types of sub-projects to be taken up. These sub-projects will require land depending on their type and size. The land requirement would vary across sub-projects and locations. The type and size of the sub-projects will dictate the land requirement. The extent of land required would vary across the sub-projects and can't be estimated at this stage.

Usual Practice

GoHP is implementing similar projects on a regular basis, which require land, of which the ownership could be either public or private. Accessing public land is easier, but arrangements will have to be made for securing privately owned land. When additional lands are required, GoHP, as a first step, would try and secure public lands under different tenure systems where feasible and available. If private lands are required, then GoHP would resort to, either through voluntary donation or by outright direct purchase or through using RFCTLARAR Act.

For any requirement of land for sub-projects under HPFFP, the GoHP will use only government land, which is free of encroachments and disputes. Land under court cases and under the purview of FRA (unsettled claims) will not be used. GoHP will use its own existing land/ premises/ buildings and/ or rented premises/ buildings for project purposes (such as raising nurseries, new plantation sites, installation of silt monitoring equipment, storage of NTFP).

However, keeping in mind any eventuality, the options are proposed for procuring/acquiring private lands are 1) Land acquisition using LA Act 2013, 2) Direct Purchase and 3) Land Donation.

Entitlement Matrix

This Entitlement Matrix is developed giving various entitlements for all categories of PAFs, based on RTFCTLARR Act 2013. This Matrix can be used as a guide for designing Resettlement Action Plans for sub-projects. All the families will be entitled to two broad categories of assistance; 1) compensation for land loss; and 2) livelihood (rehabilitation) assistance for starting some income generation activity, which may include the purchase of lands, as decided by the PAF.

Grievance Redress Mechanism (GRM)

The HPFFP will establish a Grievance Redress Mechanism (GRM) which will be implemented with the aim to respond to queries or clarifications about the project, resolve problems with implementation and addressing complaints and grievances. The GRM will focus on corrective actions that can be implemented quickly and at a relatively low cost to resolve identified implementation concerns, before they escalate to the point of harm or conflict. GRM will serve as a channel for early warning, helping to target supervision to where it is most needed and identify systemic issues. The GRM will directly focus on and seek to resolve complaints (and requests for information or clarification) that pertain to outputs, activities and processes undertaken by the Project, i.e., those which (i) are described in the Project Implementation Manual; (ii) are funded through the Project (including counterpart funds); and (iii) are carried out by staff or consultants of the organization, or by their partners and sub-contractors, directly or indirectly supporting the project.

In order to address grievances related to project activities, land acquisition and resettlement and rehabilitation implementation, livelihoods issues, etc., three bodies are to be established; PGRC at the state level, a Project level Committee at the SPMU and Grievance Redress Committees at the Division level. The former will be established under the chairmanship of PCCF, HPFD of the state to monitor and review the grievances, in his capacity as Chairman. CPD, HPFFP will be convener of this committee. The Grievance

Redress Committee will be established at the Division level under the chairmanship of the CF for the Circle for redress of grievances of the stakeholders with DFOs as the convener of these committees and district level heads of related departments as members along with a PAFs representative and a prominent social worker of the District. The aggrieved will have two kinds of options for addressing their grievance s relating to the land appropriation. One is the grievance redress mechanism incorporated in this framework, as above. The other is the general legal environment consisting of court of law to address their grievance. These options will be disclosed to the aggrieved during the public consultation process.

Grievance Redress Service of The World Bank

In addition to seeking to resolve their grievances through the GRM established at the government level, "communities and individuals who believe that they are adversely affected by a World Bank (WB) supported project such as this operation may also submit complaints to the Grievance Redress Service (GRS) established by the World Bank. The GRS ensures that complaints received are promptly reviewed in order to address project-related concerns. Project affected communities and individuals may also submit their complaint to the WB's independent Inspection Panel, after having brought the complaint to the World Bank's attention through its GRS. Information on how to submit complaints to the World Bank's Grievance Redress Service is available at http://www.worldbank.org/GRS. Information on how to submit complaints to the World Bank Inspection Panel is available at www.inspectionpanel.org.

Social Inclusion Strategy

The project would ensure inclusion of all vulnerable groups including, women and tribals within the planning and implementation structures, community institutions in the proposed project interventions by undertaking; Consultation, Stakeholder Participation, Selection of Individual Beneficiaries, Information and knowledge Sharing, Special Attention to Women, Indigenous People, especially transhumant communities and Other Vulnerable Groups.

Citizen Engagement Strategy

This assessment indicates that many programs and schemes exist for forest conservation and tribal development, however communication on and community awareness of these programs is rather limited. Engagement tends to be more focused on individuals rather on community groups, as would be required in some of interventions under this project. Therefore, in a project of this nature involving beneficiaries across different social groups, a citizen engagement strategy is needed to engage with them to ensure intended outcomes are achieved. The social audit system developed for citizen's engagement will provide project beneficiaries, as well as concerned citizens and civil society space to provide feedback on the project. As an accountability measure, offline and online mechanisms will be created for receiving citizen's feedback. This feedback will be systematically analysed and used to inform the overall project implementation strategy. The awareness generation effort of the project will also include informing people about ways of providing feedback-like web portals and toll-free helplines. Key elements of this strategy are; Participatory planning, implementation and monitoring, Feedback using ICT, Support to grievance redressal, etc.

Gender Strategy

Like in other projects, as per available experience, in these sub-projects as well, women are likely to experience differential socio-economic impacts due to their disadvantaged position within socio-economic structures and processes. As a part of Gender Strategy, actions such as; Gender disaggregated socioeconomic baseline, separate focus group discussions and mobilization, inclusion of women and quality representation in forest committees, Training and capacity building, Socially inclusive Benefit Sharing for shared/public goods, Convergence with existing state level schemes for skill development and empowerment of women, tracking of gender disaggregated monitoring indicators, Preference to deployment of female community facilitators have been proposed. The recommendations of the standalone gender study conducted by project will also be implemented by the project.

Monitoring

The SMF requires detailed supervision, monitoring and evaluation of the impact of the project on social aspects. In order to carry out this, HPFFP will have specific arrangements made at state and range level. This includes appointment of a Social Safeguards Specialist and a Gender and Social Development Specialist for the project period at state level. Further the HPFFP will guide the Field level agencies on how implementation of this SMF. The HPFFP SPMU will be in charge of implementing the SMF. The Specialists will guide and oversee its implementation and will be supported at field level by consultants and facilitators. Further the HPFFP will incorporate the provisions of this SMF as actionable points in the Project Operations Manual or other similar document prepared for the project. The Social Safeguards Specialist will oversee the application of these provisions and guide the process, while at the same time building the capacity of the PIU and the field units. Once every year, the HPFFP will prepare a report of the social safeguards status in the project districts including data and analysis of relevant parameters. The concurrent internal social monitoring will be done as part of the regular monitoring by the SPMU, PIUs and range level implementing agencies. However, independent external consultants appointed by HPFFP, will do the half-yearly social monitoring and audit of sub-projects for social safeguards compliance.

Capacity Building Strategy

The HPFFP will give its staff and the participating communities' exposure to social safeguards issues. But the interactions with them reveal that, this mere exposure is not enough for preparing and implementing social management plans. They need to have awareness, sensitivity, skills and hands-on experience regarding the social aspects of subprojects planning and implementation. This capacity building and IEC strategy has been outlined as part of the SMF developed for the project aims at building social awareness and social management capacity in the project administration structure as well as among the intended target communities. Capacity building for social management will also be integrated within the overall capacity building component of the project. Targeted training and refresher programs are suggested for the implementing agencies and budget has been provided for these activities.

Budget

November 2018

The total administrative budget for social management activities including training under the proposed HPFFP has been worked out as Rs. 7 Crore. The cost of implementing the proposed mitigation measures is not included in this costing. The cost of mitigating social impacts need to be included in the respective sub-projects' budgets.

Means of Disclosure

This SA, SMF along with RPF and the TDF will be kept at the DFO Office, District Collector's Office, and Range Office falling in the project area for interested persons to read and copy. This will also be made available on the forest department web site as well and at the Gram Panchayat Offices of the concerned villages.

1. Introduction

1.1 Himachal Pradesh - Background

Himachal Pradesh, the land of apples and snow, has geographical area of 55,673 sq. km. and constitutes nearly 11 percent of the total area of Himalayas. Nearly 30 percent of its geographical area is permanently under snow and more than 66 percent is designated as forest-with nearly 15 percent falling within the Protected Area (PA) network. The state almost wholly comprises of mountain ranges, hills and valleys and has 4 major agro-climatic zones viz.;

- 1. Sub-tropical low hills (Shiwalik Range, below about 800 meters MSL)
- 2. Mid-hills sub-temperate zone (between 800 to 2800 meters MSL)
- 3. High hills temperate wet and sub alpine (above 2800 meters MSL)
- 4. High hills temperate dry alpine zone (higher reaches of inner and outer Himalayas)

Forests in Himachal Pradesh cover an area of 37,033 Sq. Km. and account for 66.52 percent of total geographical area of the state. However, presently 26.4 percent of the total geographical area of the State supports Forest cover. Besides proper management, conservation and rationalized utilization of forests, the State has a declared vision of enhancing the forest cover in the State from the present about 26.4 percent of its geographical area to 30 percent of its geographical area by 2030 to meet the Sustainable Development Goals (SDGs).

The High Hills Region covering Kinnaur, Lahaul & Spiti and Chamba districts, accounts for more than 30 percent of Himachal's geographical area. This zone is further divided into a sub- alpine and an alpine zone; the former lies at an altitude of 3000 - 3500 meters and the latter lies above 3500 meters. About 80 percent of this part of Inner Himalayas is under pastures, with cultivated and forested areas only spread over 10 percent of land, and inhabited by transhumant indigenous communities that use these alpine pastures for grazing their livestock.

The state is also home to nearly 1.7 million people belonging to vulnerable communities that constitute nearly 28 percent of its total population (24.7 percent SC and 4 percent ST). A significant proportion of the large rural population lives within and on forest fringes and has high dependence on forests and pastures for their lives and livelihoods. The state has been working on a green growth model that links prosperity of local communities to improved forest management for deriving multiple benefits.

1.2 Himachal Pradesh Forests for Prosperity Project

Since forests produce a range of ecosystem services, they need to be managed for multiple benefits, not just for timber, but to maximize economic benefits for different stakeholders while managing these forests sustainably. In order to do this,

Government of Himachal Pradesh is developing the **Himachal Pradesh Forests for Prosperity Project**, with Department of Forests as the main implementing agency.

1.2.1 Project Development Objective

The Project Development Objective (PDO) is to improve forest management and communities' access to markets in selected watersheds in Himachal Pradesh. Short to medium-term outcomes captured by the PDO are expected to contribute to

improved water flow and sediment regulation in the targeted watersheds in the long term.

The project will have the following PDO indicators:

- PDO indicator #1: Selected forest land managed in accordance with site-specific management plans (ha)
- PDO indicator #2: Productive alliances operational according to a business plan (number); target of 50 percent with women-only groups
- PDO indicator #3: Share of target beneficiaries with rating 'Satisfied' or above on process and impact of project interventions (percentage, disaggregated by gender)

Project Development Objective

To improve forest management and communities' access to markets in selected watersheds in Himachal Pradesh.

PDO Indicators

- <u>1.</u> PDO indicator #1: Selected forest land managed in accordance with site-specific management plans (ha)
- 2. PDO indicator #2: Productive alliances operational according to a business plan (number); target of 50 percent with women-only groups
- <u>3.</u> PDO indicator #3: Share of target beneficiaries with rating 'Satisfied' or above on

Box 1: Project Development Objective disaggregated by gender)

1.3 Project Components

Building on global best practice, the project is designed to emphasize community engagement and the sustainable use and processing of forest resources as key entry points to longer-term institutional and policy reforms, which this project will also support through identification and initial implementation. This will be achieved in a context of enhanced land and watershed planning. The project includes state-level activities, especially in Component 1. The target areas for Components 2 and 3 will be implemented following the nested HPFD institutional arrangement that includes 7 districts: Kinnaur, Kullu, Mandi, Shimla, Solan, Una, and Bilaspur; 5 forest circles: Rampur, Mandi, Shimla, Bilaspur, and Hamirpur; 10 forest divisions: Kinnaur,

Rampur, Ani, Karsog, Kotgarh, Shimla, Shimla Urban, Kunihar, Una, and Bilaspur; and 21 forest ranges: Kalpa, Moorang, Kilba, Rampur, Nankhari, Bahali, Kumarsain, Kotgarh, Bhajji, Dhami, Pangana, Seri, Magru, Karsog, Chowai, Shimla Urban, Darla, Ramgarh, Bangana, Shri Naina Devi, and Kalol.

1.3.1 Component 1. Institutional Reform and Capacity Building for Integrated Watershed Management (IWM) and Improved Forest Management

The objective of this component is to facilitate a better alignment of institutional mandates for IWM and strengthen the HPFD's institutional structure and capacity for improved forest service delivery. It will be implemented through a combination of technical assistance (TA) and public investments.

1.3.1.1 Subcomponent 1A: Building consensus for integrated watershed management

Through the convening power of the HPFD and its role in managing watersheds, this subcomponent will provide TA to support the state in improving the integrated management of its water resources through awareness raising, capacity building, and analytical and knowledge-sharing activities. The subcomponent will support an IWM institutional assessment to (a) identify the institutions that affect water supply, quality, use, and management and their roles, responsibilities, and mandates; (b) conduct a strengths, weaknesses, opportunities, and threats analysis of the current institutional framework and highlight any overlaps and/or gaps that undermine IWM; (c) identify opportunities for institutional coordination and synergy; and (d) build consensus on the need for reform and develop the goals and vision for institutional collaboration, a time-bound action plan, and an implementation road map. The results of this assessment are expected to inform the GoHP on the necessary longer-term reforms to the relevant state institutions that will result in effective interagency cooperation and, ultimately, IWM.

1.3.1.2 Subcomponent 1B: Institutional reform and strengthening of the Himachal Pradesh Forest Department

This subcomponent will support the preparation process for long-term institutional reforms and will implement an initial set of reforms. It will provide TA and investments to (a) conduct a comprehensive functional review of forest institutions (FRFI) that will produce a vision, goal, and time-bound action plan for change; (b) implement an initial set of prioritized HPFD institutional reforms; and (c) strengthen the HPFD's capacity to deliver its core mandates. This subcomponent will be implemented in parallel to, but will also be informed by, the longer-term reform process to catalyze IWM under Subcomponent 1A.

The FRFI will analyze the key challenges and constraints that limit the sector's performance, identify and develop ownership for the vision and goals of the reform

process, and—in collaboration with key stakeholders—develop a time-bound road map for implementation. The review will include an analysis and benchmarking of national and state legal, regulatory, and institutional frameworks to identify constraints and bottlenecks, including the effective and accountable participation of the private sector and communities, and will clarify and address any overlapping or conflicting institutional responsibilities.

This subcomponent will also support the HPFD in implementing an initial set of prioritized institutional governance reforms through TA and investments, including the purchase of the required equipment. These reforms include the (a) development and implementation of a comprehensive HPFD IT and knowledge strategy that integrates all relevant applications on a common geospatial platform based on open source technology and allows for watershed-level planning; (b) development and implementation of a comprehensive HPFD monitoring and evaluation (M&E) system to support forest management; (c) establishment of a centralized staff performance monitoring system for the HPFD linked to the IT platform; and (d) development of regulatory and management standards for pastures.

Finally, this subcomponent will finance training and capacity-building activities for the HPFD based on a comprehensive training plan, including the development and delivery of trainings by internal and external providers using virtual technologies and international exposure. The subcomponent will also finance minor infrastructure improvements at the State Forest Training Institute at Chail. These trainings will build HPFD's capacity to inform community members, including women, about their forest-related rights, duties, entitlements, and obligations, as well as the roles of communities and the HPFD in the preparation and implementation of participatory, inclusive, and responsive forest management plans.

1.3.2 Component 2. Improved Investments in Participatory and Sustainable Land and Water Management

This component aims to promote participatory and sustainable land and water management through financing the planning and implementation of investments in selected catchments based on the Sutlej Basin Comprehensive CAT (CCAT) plan and range-level site-specific management plans (SSMP) to be developed under this component. This component will also include investments in the Shimla catchment to enhance the availability and sustainability of water sources for water supply in the city of Shimla. The main implementers and beneficiaries of this component will be HPFD staff and community organizations, particularly JFMCs, located within the selected catchments. The component will be implemented through a combination of TA, public investments, and partnerships with other public agencies and will lead to improved forest cover (and hence carbon capture), increased water and sediment regulation, reduced erosion, and improved community participation in forest management.

1.3.2.1 Subcomponent 2A: Improved planning for participatory and sustainable land and water management

Subcomponent 2A will (a) review implementation progress and revise the existing Sutlej Basin CCAT plan; (b) support additional diagnostic studies, designs, and assessments to inform the land and water management investments; and (c) develop SSMPs based on the CCAT plan through a participatory process led jointly by the relevant JFMCs. The CCAT plan review will first assess the implementation of all activities identified in the original CCAT plan and identify the most costeffective interventions implemented to date. The review will also propose revisions to the CCAT plan investments and their location based on new hydrological and sediment load modeling and will incorporate the districts of Bilaspur and Una (not covered by the current plan). The CCAT plan review will include the design and implementation of a comprehensive M&E system for CCAT plan investments across the entire Sutlej Basin, including installation of instruments to measure water flows and sediment loads to refine the existing hydrological models and ensure that the CCAT plan investments maximize silt retention and surface water absorption given likely climate change impacts. The CCAT plan review and M&E system will be linked to and informed by Subcomponent 1A and the geospatial database developed under Subcomponent 1B.

This subcomponent will also support other assessments to inform priority investments, including (a) an assessment of grassland damage caused by invasive species and the design of scientific control interventions; (b) an assessment of historical fire lines and development of new fire lines given future climate and land use patterns; (c) an assessment of the existing pasture management and livestock management practices and design of improved practices; and (d) the design and implementation of a remote sensing-based forest fire danger rating and early warning system to be implemented by the Forest Survey of India (FSI).

Finally, because the CCAT plan identifies investments over a large geographic scale (division level), this subcomponent will support the development of more detailed SSMPs to operationalize the CCAT plan at the forest range level, which will be developed through a participatory process led by the forest range officer together with the relevant JFMCs and other line departments. All JFMC members will be trained on the SSMP process, basic forest management and group administration, and the CCAT plan to facilitate their informed participation in the SSMP development process. Separate trainings and community consultations with women and men will also be held to (a) enhance their awareness about women's and men's forest-related entitlements and obligations and (b) develop clarity on the rules for women and men to engage in forest-related decision-making and access and benefit from forest resources. In the cases where JFMCs are not constituted the SSMPs will be implemented by the HPFD. Where JFMCs have yet not been formed, are not fully functioning, or are not fully inclusive of all community members, especially women and scheduled castes/tribes, training and community

consultation support involving female facilitators will be provided to (re)establish community groups, build cohesion, ensure that women occupy leadership roles in the JFMC executive committees, and provide leadership training to women.

1.3.2.2 Subcomponent 2B: Implementation of participatory and sustainable land and water management investments

This subcomponent will finance the implementation of new and previously unimplemented investments specified in the CCAT Plan and SSMPs. These investments will be based on the improved planning supported by Subcomponents 1A and 2A and will contribute to improved forest cover and quality, as well as improved water and sediment regulation. The investments will be implemented by the HPFD and the JFMCs according to the SSMP, and all goods, works, and services associated with CCAT plan/SSMP implementation in the selected catchments will be financed by the project. Because women prefer wage labor to NTFPs as a source of cash income but are underrepresented in forestry operations, female facilitators will work with forest officers to ensure female laborers are hired for these investments.

Activities supported by this subcomponent include, but are not limited to, the following areas:

- (a) **Soil and water conservation measures.** Vegetative measures, such as grass seeding, grass turfs, brushwood, check dams, live hedge, and spurs, as well as mechanical measures, such as drop structures, crate wire spur structures, and drainage line treatments, like gully plugging.
- (b) **Development of high-quality seed stands.** Establishment of a georeferenced seed production system (linked to the Forest Management Information System [FMIS]); construction of a centralized seed center to process, treat, store, and test the seed in controlled conditions; design and implementation of a seed certification and distribution system; and construction of a climate-controlled seed bank.
- (c) **Nursery development.** Provision of machinery and equipment and the production of approximately 200,000 additional seedlings in each of 19 nurseries (one per range) for subsequent planting in forest plantations. Nursery and species selection will incorporate JFMC inputs.
- (d) **Plantation management.** Planting and management of trees in open and medium density forests and slopes vulnerable to soil erosion and protection of plantations. The locations and species will be selected based on JFMC inputs and ecological conditions.
- (e) **Pasture management.** Introduction of rotational grazing, delineation of forest areas for the supply of fodder, and the introduction of voluntary systems to prevent livestock from grazing in nurseries and young forest plantations and avoid the loss of seedlings.

(f) **Forest fire prevention and suppression.** Organization of community fire protection groups; provision of locally appropriate firefighting equipment, including small vehicles, to the HPFD offices and participating communities; and training of communities on controlled burning, developing *van-sarovars* (small ponds) to douse fires, and the collection and use of pine needles.

1.3.3 Component 3. Strengthened and Inclusive Value Chains for NTFPs and Other Commodities

This component aims to incentivize community participation in sustainable land and water management by removing barriers to private investment in NTFP value chains and increasing local incomes to support sustainable production and increased value addition from NTFPs and other high-value commodities (agriculture, horticulture or animal husbandry) given the relatively small contribution of NTFPs to local livelihoods at present. This component will target NTFP collectors, who are often women, and the producers interested to cultivate NTFPs (medicinal, aromatic plants) and other high-value commodities identified for value chain development. In keeping with the overall focus of the project on focusing HPFD on its core mandates, this component will be implemented through development of a 'Value Chain Development Cell' (VCDC) within the SPMU that will coordinate and monitor the overall implementation of this component and consultant contracts between the SPMU and qualified support entities, such as NGOs, consulting firms, and research institutes. Alignment with the relevant line departments (e.g., agriculture, horticulture, and animal husbandry) will be ensured through the project State Level Steering Committee (SLSC). Besides improving local livelihoods, the proposed activities will reduce pressure on forests and contribute to increased carbon sequestration and reduced erosion.

1.3.3.1 Subcomponent 3.A: Creating enhanced market opportunities for NTFPs and other commodities

Building on the maximizing finance for development approach, this subcomponent will support (a) a value chain and marketing analysis; (b) the HPFD to reform its approach to managing NTFP value chains; (c) the development of a model for the sustainable harvesting of selected NTFPs; (d) the development of geographic indications and certification systems/standards; and (e) limited operating costs (e.g. meetings, trainings, tools) to promote viable business partnerships between private sector value chain actors and CUG, such as marketing platforms, Private-Public Dialogues, knowledge events, business promotion events, and/or trainings (e.g., on certification systems) for private companies.

1.3.3.2 Subcomponent 3.B: Increasing sustainable collection/production and linking producers to markets

This subcomponent aims to (i) mobilize the NTFP collectors and producers of other potential commodities into 'CUG;' (ii) build their capacity for sustainable collection,

production, and business development through trainings and technology demonstrations; (iii) support the establishment of "productive alliances" between CUG and private sector value chain actors to increase private investment in sustainable value chains and the value forest fringe communities capture from these value chains; and (iv) support high-performing, growth-oriented federations of eligible collector/CUG to develop into 'sustainable enterprises' by financing secondary/tertiary processing, larger-scale storage, and marketing activities. The subcomponent will provide initial seed grant funding and TA to finance producer group establishment, including the development of by-laws and the opening of a group bank account, and to establish partnerships with private sector value chain actors, for example through buyer fairs and study tours. This subcomponent will also finance two sequential rounds of competitive matching grants to finance (1) eligible sustainable and climate-smart production and primary processing and storage investments identified in the business plans and (2) eligible secondary/ tertiary processing activities. The second (sequential) round of competitive matching grants will be offered to transform eligible federations of groups supported under the first round into sustainable enterprises by co-financing secondary/ tertiary value addition equipment and facilities with federations that have proven to be high performing and growth-oriented according to performance criteria developed by the VCDC. The eligibility criteria and terms for all three grant rounds will be identified in the Project Implementation Plan (PIP) and in the Operational Manual, with special emphasis on extending support to women-only groups to help them productively participate in the supported value chains. Female facilitators will also be hired and trained to provide additional training and support to women-only groups to help them identify partners and ensure they benefit from the matching grants schemes.

The mobilization, organization and capacity building of the CUG and federations of producer groups will be done through qualified support agencies (e.g., NGO, consulting firm, or research institute) with field assistance from facilitators hired at the range level. The support agencies will prepare training materials appropriate to the local context, develop manuals and other operational guidelines, and provide Training of Trainers to the facilitators, who will implement the field-level trainings for the producer groups and the technology demonstrations.

Under Component 3, on NTFP, CUGs will be created with support from Community Facilitators. These CUGs will receive financial support for initial establishment as well as subsequent support/ incentive in the form of matching grants based on business plans prepared by them. These CUGs will have adequate representation of women and project will make special efforts in forming Women Only CUGs for ensuring gender mainstreaming. The project will aim to maximize productive alliances with Women CUGs.

1.3.4 Component 4. Institutional Coordination and Project Management

The project will be implemented through the HPFD and will be coordinated with other line departments through a project SLSC, as described in the following two subcomponents.

1.3.4.1 Subcomponent 4A: Institutional coordination

This subcomponent will finance the creation and maintenance of the project SLSC and its recurrent expenditures to ensure multisectoral coordination and participation across the HPFD and other relevant line departments and institutions involved in the project and/or that have the institutional mandate to advise or implement activities related to watershed management and NTFPs/agribusiness. The project will finance (a) SLSC technical meetings; (b) quarterly district meetings for convergence with other developmental schemes/programs of the Government; (c) exposure visits to project activity sites for information sharing and learning from project implementation; and (d) international exposure visits.

1.3.4.2 Subcomponent 4B: Project management

This subcomponent will finance project management activities (mainly through operational costs) undertaken by a State Project Management Unit (SPMU) in the HPFD, including (a) budgeting; (b) preparing annual work plans; (c) contract management; (d) financial management (FM); (e) procurement; (f) environmental and social risks management; (g) communications; and (h) M&E.

1.4 Project Beneficiaries

Key project beneficiaries include communities living in forest areas, especially women and NTFP collectors, as well as nomadic/transhumant/pastoral communities, who will benefit from improved access to and value from NTFPs, including fodder, medicinal and aromatic plants, and fruit trees. Improvements in fodder availability will particularly benefit women and scheduled tribes, as they are most involved with livestock management. Women, and the community at large, will also benefit from employment opportunities in nursery and plantation activities and the development of NTFP and agricultural value chains. Community members will benefit from training on forest management (including rights, obligations, and entitlements), improved production and postharvest practices, and basic business skills, as well as technical and financial support to invest in sustainable value chain and enterprise development in partnership with the private sector. The project will also increase the skills and capacity of the HPFD and other government officials, as well as private companies involved in the selected value chains.

1.5 The World Bank's Forest Action Plan - Role of Forests in increasing Shared Prosperity

The World Bank Group recognizes the need for forests to become an integral part of national development priorities and be better recognized for opportunities they offer, especially since a large part of the world's vulnerable population lives in or near forests. World Bank's Forest Action Plan for the period 20016-20 (FAP) provides guidance on how forest smart activities can create pathways to help lift communities out of poverty and vulnerability. The FAP identifies 2 key areas, namely sustainable forest management and forest smart interventions that can contribute to creating lasting and positive forest outcomes-greater climate resilience, ensuring rights and participation, and strengthening institutions and governance in the management of forests, to maximize their development benefits.

<u>Sustainable Forestry:</u> The Action Plan supports investments for enhancing benefits from natural forests, in terms of creating cash and non-cash income opportunities for forest dependent communities by planting new forests, responding to growing demand for fuel, fodder and food and reducing pressure on natural forests. It also promotes investments for rehabilitating degraded forests and strengthening value chains through forest-based enterprises. Potential interventions in this area include:

- 1. Protection and optimization of the management of natural forests through:
- Participatory forest management
- Sustainable management of production forests
- Sustainable production of non-timber forest products
- Forest biodiversity protection
- Nature-based tourism
- Payment for ecosystem services
- 2. Sustainable plantations and tree plantings through:
- Responsible investments in large-scale commercial reforestation
- Smallholder plantations and tree planting
- 3. Sustainable forest value-chains through:
- Small and medium forest enterprises
- Private investments in forest value chains

<u>Forest Smart Interventions:</u> This approach supports investments which minimize or avoid adverse impacts on forests and their bio-diversity, and identifies opportunities to increase productivity and resilience of other related sectors-agriculture, watershed, flood control by delivering multi-sectoral solutions. Potential interventions in this area include:

- 1. Informed decision making on land use by:
- Introducing forest considerations as key element of Sustainable Development Agenda
- Promoting land use planning as a key tool
- 2. Deliver on forest-smart operations in sectors such as:

- Agriculture and water
- *Infrastructure (transport, dams, and hydropower)*
- Energy
- Extractive industries

Apart from these two key areas, FAP also identifies certain cross cutting themes, engagement in which can lead to positive outcomes. These include developing innovative solutions for forest based climate change mitigation and using a landscape based approach for developing resilience among ecosystems and societies to climatic shocks. The world's most carbon-rich and bio-diverse forests are often found in regions where **participation and rights** related to access and use of forests / forest products are ill-defined, contested or insecure.

The Action Plan commits to support client countries that are willing to clarify forest access and user rights, improve land tenure (for indigenous and forest-dependent communities), and modernize land administration. In addition, the FAP also seeks to establish platforms to foster enhanced stakeholder participation, since effective forest **governance and strong institutions** are pre-conditions for sustainably managed forests. To this extent, it strives to support clients willing to strengthen their institutional capacities and policy framework to sustainably manage their forests and its interfaces with other sectors.

1.6 Social Assessment - Purpose and Objective

The objective of this assignment is to undertake a detailed assessment of the existing and potential social risks and issues that the project is likely to face during design and implementation. Based on a detailed secondary literature review, and exhaustive primary data collection, it has analysed the policy-legal environment related to social aspects of the project, capacities of implementing agencies to manage these social issues and risks and assess to what extent the state's systems and processes are geared to address or mitigate these likely risks and impacts. This assessment has been used to develop a Social Management Framework (SMF) and Tribal Development Plan (TDP) for mitigating or avoiding adverse social impacts and for enhancing social benefits emerging from the project. The social assessment and management framework has been developed based on the principles of equity, social and gender inclusion, participation, transparency, accountability, good governance and appropriate land management.

1.6.1 Scope of the Assignment

The scope of the assignment is summarized in the following eight steps:



1.6.2 Approach and Methodology

The approach and methodology used for conducting this assignment is summarized below:

- 1. Literature Collection and Review
- 2. Desk Analysis
- 3. Tools (Household Survey Questionnaire and Community Consultation Checklist) Preparation and Field Testing Inception Report
- 4. Field Visits Primary Data Collection
- 5. Community Consultations
- 6. Data and Dialogue Analysis
- 7. Social Assessment (SA), Social Management Framework (SMF) and Tribal Development Framework (TDF) Preparation Draft Reports
- 8. Revising Reports based on Comments and Suggestions
- 9. Final Reports (SA, SMF and TDF) Submission

2. Social Baseline

2.1 Profile of the state

Himachal Pradesh is situated in the Western Himalayas, and is bordered by states of Jammu and Kashmir on the north, Punjab on the west, Haryana on the southwest, Uttarakhand on the southeast, and the Tibet Autonomous Region on the east. At its southernmost point, it also touches the state of Uttar Pradesh. The state's name was coined from the Sanskrit; Him means 'snow' and Achal means 'land' or Diwakar Datt of 'abode' bv Acharva Sharma. one the state's eminent Sanskrit scholars. Himachal Pradesh is known for its natural environment, hill stations, and temples. Himachal Pradesh had one of the highest per-capita incomes among Indian states and union territories for the year 2014-15. Many perennial rivers flow in the state. Numerous plants produce surplus hydroelectricity that is sold to other states, such as Delhi, Punjab, and Rajasthan. Tourism and agriculture are also important constituents of the state's economy. The state is spread across valleys. Practically all houses have a toilet and 100% hygiene has been achieved in the state. The villages have good connectivity with roads, public health centres, and high-speed broadband.

Himachal Pradesh has a total population of 68,64,602 (34,81,873 males and 33,82,729 females), with a population density of 123 as per 2011 Census. This is only 0.57 per cent of India's total population, recording a growth of 12.81 per cent. In the census, the state is placed 21st on the population chart, followed by Tripura at 22nd place. The Scheduled Caste population stands at 17,29,252 (24.7%) and the Scheduled Tribes population stands at 3,92,126 (5.71%). The Total Fertility Rate (TFR) per woman is 1.8, one of lowest in India. The Sex Ratio is 972 as against national average of 933. The literacy rate is 83.78% (Male 90.83% and Female 76.6%). About 90% of the population lives in rural areas. The life expectancy at birth in Himachal Pradesh is 72 years higher than the national average of 68 years.

The state of Himachal Pradesh is divided into 12 districts which are grouped into three divisions, Shimla Shimla, and Solan (Kinnaur, Sirmaur Districts), Kangra (Chamba, Kangra and Una Districts) and Mandi (Bilaspur, Hamirpur, Kullu, Lahaul and Spiti, and Mandi Districts). The districts are further divided into 69 subdivisions, 78 blocks and 145 Tehsils. There are 4 Parliamentary and 68 Assembly constituencies in Himachal Pradesh.

Some key geographic, administrative, development information and the map of the Himachal Pradesh state is given in the below table.

Table 1: Geographic and Administrative data and Development Indicators

ITEM	PERIOD	UNIT	PARTICULARS
Area	(31.3.2016)	Sq. Kms.	55,673
Districts	(31.3.2016)	Nos.	12
Divisions	(31.3.2016)	Nos.	3
Sub - Divisions	(31.3.2016)	Nos.	62
Tehsils	(31.3.2016)	Nos.	97
Sub - Tehsils	(31.03.2016)	Nos.	49
Blocks	(31.03.2016)	Nos.	78
Total Villages	(2011 Census)	Nos.	20,690
Inhabited Villages	(2011 Census)	Nos.	17,882
Un-Inhabited Villages	(2011 Census)	Nos.	2,808
Towns & Cities	(2011 Census)	Nos.	59
Population	(2011 Census)	Lakh	68.65
Males	(2011 Census)	Lakh	34.82
Females	(2011 Census)	Lakh	33.83
Rural Population	(2011 Census)	Lakh	62
Urban Population	(2011 Census)	Lakh	6.89
Scheduled Caste Population	(2011 Census)	Lakh	17.29
Scheduled Tribe Population	(2011 Census)	Lakh	4
Literacy	(2011 Census)	Percent	83
Growth Rate	(2001-2011)	Percent	13
Density of Population	(2011 Census)	Persons	123
Total No. of Main Workers	(2011 Census)	Lakh	20.63
Birth Rate	2014	Per	16.4
Death Rate	2014	Per	6.7
Per Capita Income at current Prices	2015-16 (Adv.)	Rupees	1,30,067

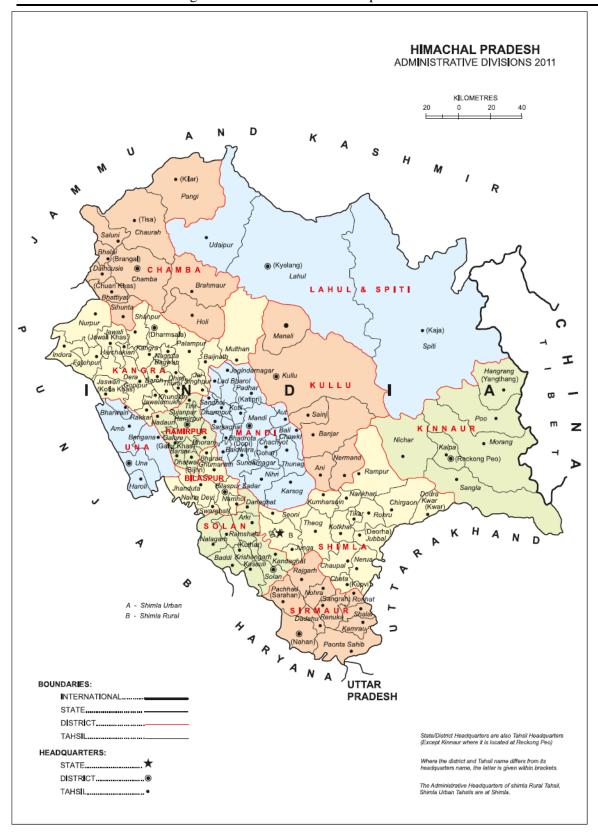


Figure 1: Administrative Divisions and Boundaries of Himachal Pradesh

2.2 Geography

Himachal Pradesh is situated in the northern tip of India. It has geographical area of 55,673 sq. km. and constitutes nearly 11 percent of the total area of Himalayas. Nearly 30 percent of its geographical area is permanently under snow and more than 66 percent is designated as forest - with nearly 15 percent falling within the Protected Area (PA) network.

The state almost wholly comprises of mountain ranges, hills and valleys and has 4 major agro - climatic zones viz.

- Sub tropical low hills (Shiwalik Range, below about 800 meters MSL),
- Mid hills sub temperate zone (between 800 to 2800 meters MSL),
- High hills temperate wet and sub alpine (above 2800 meters MSL) and
- High hills temperate dry alpine zone (higher reaches of inner and outer Himalayas).

The High Hills Region covering Kinnaur, Lahaul & Spiti and Chamba districts, accounts for more than 30 percent of Himachal's geographical area. This zone is further divided into a sub - alpine and an alpine zone; the former lies at an altitude of 3000 - 3500 meters and the latter lies above 3500 meters.

2.2.1 Relief and drainage

Within the diverse terrain of Himachal Pradesh are several parallel physiographic regions corresponding to the northwest-southeast-trending ranges of the Himalayan mountain system. The region adjacent to the plains of Punjab and Haryana consists of two stretches of the Shiwalik Range (the Outer Himalayas) separated by long, narrow valleys. Elevations in the southern tract of the region average about 500 meters, while in the northern tract they range between 900 and 1,500 meters. To the north of the Shiwaliks are the Lesser (or Lower) Himalayas, which rise to about 4,500 meters. Within this region are the spectacular snow-capped Dhaola Dhar and Pir Panjal ranges. To the north again is the Zaskar Range, which reaches elevations of more than 6,700 meters, towering over the other ranges in the region. Many active mountain glaciers originate in this area.

Himachal Pradesh has many perennial snow-fed rivers and streams, in addition to four major watercourses. The eastern portion of the state is drained primarily by the Sutlej River, which rises in Tibet. Draining the western part of Himachal Pradesh are the Chenab (Chandra-Bhaga), Ravi, and Beas rivers, which have their source in the Great Himalayas.

2.2.2 Soils

The soils of Himachal Pradesh can be broadly divided into nine groups on the basis of their development and physiochemical properties. These groups are alluvial soils, brown hill soils, brown earths, brown forest soils, grey wooded or podzolic

soils, grey brown podzolic soils, plansolic soils, humus and iron podzols and Alpine humus mountain skeletal soils.

2.2.3 Rivers

Rivers which flow through this State are Beas in Kullu, Mandi and Kangra districts, Satluj in Kinnaur, Shimla and Bilaspur districts, Yamuna has its tributaries in Shimla and Sirmaur districts, Chenab (Chander Bhaga) flows through Lahaul-Spiti and Chamba districts and Ravi through Chamba district.

All these rivers are snow-fed and hence perennial. Besides the natural reservoirs and the large drops available in the river courses provide immense potential for hydel power generation at a low cost.

2.2.4 Land Use Pattern

Table 2: Land Use Pattern of the State (Area in '000 ha) of HP

Year/ District	Geographical Area by village papers	Forest land	Misc. Tree crops & Groves (Not included in net area sown)	Permanent pastures & other grazing lands	Culturable waste	Land put to non- agricultural uses	Barren and Un- culturable land	Current Fallows	Other Fallows	Net area sown	Area sown more than once	Total cropped area
Bilaspur	111.8	14.0	0.2	39.6	6.1	15.8	4.4	1.5	1.0	29.2	27.7	56.9
Chamba	692.4	272.0	0.2	348.9	6.9	15.4	4.7	1.9	0.7	41.6	26.1	67.8
Hamirpur	110.2	18.2	0.0	11.5	11.2	13.3	13.9	5.3	1.5	35.3	32.4	67.7
Kangra	577.7	232.5	8.3	87.9	28.2	77.7	14.8	11.5	1.1	115.7	97.5	213.3
Kinnaur	624.2	38.6	0.1	322.0	3.3	117.9	132.4	1.5	0.1	8.3	2.3	10.6
Kullu	64.2	2.5	3.8	3.9	1.3	7.9	3.2	2.6	0.5	38.5	21.1	59.6
L&S	911.2	137.4	0.1	211.5	0.6	16.9	541.3	0.1	0.0	3.4	0.1	3.5
Mandi	397.9	175.3	0.4	96.3	4.5	16.6	8.6	6.6	1.1	88.8	71.8	160.6
Shimla	525.4	149.7	8.9	235.2	13.1	19.9	11.5	16.1	5.1	65.9	20.5	86.5
Sirmaur	224.8	48.7	35.8	59.6	11.5	10.5	8.5	4.7	5.2	40.3	35.3	75.6
Solan	180.9	20.3	0.6	77.7	15.0	13.3	10.9	2.6	2.9	37.7	24.7	62.5
Una	154.9	16.5	6.6	13.5	22.6	27.6	24.1	3.1	2.2	38.5	35.5	74.0
Himachal Pradesh	4575.6	1125.7	64.9	1507. 5	124.1	352.7	778.5	57.5	21.3	543.4	395.3	938.6
		24%	2%	33%	3%	8%	17%	1%	0.5%	12%	9%	21%

The Land Use and Land Cover Distribution of the state indicate that 24% of the land area is occupied by Forests. 33% land is occupied by grass and shrubs which acts as pastures. Agricultural land accounts to 13% of the total geographic area of the state. 17% of the land is un-culturable barren land. About 80 percent of this part of Inner Himalayas is under pastures, with cultivated and forested areas only spread over

10 percent of land, and inhabited by transhumant indigenous communities that use these alpine pastures for grazing their livestock.

2.3 Demography

Himachal Pradesh has a total population of 6,864,602 including 3,481,873 males and 3,382,729 females as per the final results of the Census of India 2011. This is only 0.57 per cent of India's total population, recording a growth of 12.81 per cent. The total fertility rate (TFR) per woman is 1.8, one of lowest in India.

Table 3: District wise Distribution of Rural and Urban Population in HP

DICTRICT		Rui	ral			Ur	ban			Total ('000)	
DISTRICT	HH	POP	M	F	НН	POP	M	F	HH	POP	M	F
Bilaspur	6%	6%	6%	6%	3%	4%	4%	4%	80	382	193	189
Chamba	7%	8%	8%	8%	5%	5%	5%	5%	102	519	261	258
Hamirpur	7%	7%	6%	7%	4%	5%	4%	5%	106	455	217	238
Kangra	24%	23%	23%	23%	12%	13%	12%	13%	339	1,510	751	759
Kinnaur	2%	1%	1%	1%	-	-	-	-	20	84	46	38
Kullu	6%	6%	7%	6%	6%	6%	6%	6%	95	438	225	212
Lahul & Spiti	1%	1%	1%	0.5%	-	-	-	-	7	32	16	15
Mandi	16%	15%	15%	15%	9%	9%	9%	10%	219	1000	498	501
Shimla	10%	10%	10%	10%	32%	29%	30%	29%	184	814	425	388
Sirmaur	6%	8%	8%	7%	8%	8%	8%	9%	98	530	276	253
Solan	7%	8%	8%	7%	15%	15%	16%	14%	122	580	309	271
Una	8%	8%	8%	8%	6%	7%	6%	7%	110	521	264	257
HIMACHAL												
PRADESH	1,312	6,176	3,110	3,065	170	688	371	317	1,483	6,864	3,481	3,382
('000)												
% of Total	88%	90%	89%	91%	12%	10%	11%	9%	100%	100%	100%	100%

2.3.1 Age Group wise Distribution

The age group wise distribution of the population indicates that 54% of the population is in the age group of 19-60 years i.e. they contribute to the workforce of the state, while 11% of the population is above 60 and comprise of the retired or old age group.

Table 4: District wise Age Group wise Distribution of Population in HP

DISTRICTS	18 YEARS or BELOW	19 - 60	60 - 80	ABOVE 80 YEARS	AGE NOT STATED	POPULATIO N ('000)
BILASPUR	33%	55%	10%	2%	0.1%	382.0
СНАМВА	41%	51%	7%	1%	0.1%	519.1
HAMIRPUR	33%	53%	11%	2%	0.0%	454.8
KANGRA	34%	54%	10%	2%	0.3%	1510.1
KINNAUR	30%	61%	8%	2%	0.1%	84.1
KULLU	36%	55%	7%	1%	0.1%	437.9
LAHUL & SPITI	32%	57%	9%	2%	0.8%	31.6
MANDI	35%	54%	9%	2%	0.2%	999.8
SHIMLA	33%	58%	8%	1%	0.1%	814.0
SIRMAUR	40%	52%	7%	1%	0.1%	529.9
SOLAN	35%	56%	7%	1%	0.1%	580.3
UNA	35%	53%	10%	2%	0.0%	521.2
HIMACHAL PRADESH	35%	54%	9%	2%	0.1%	6864.6
Total Population ('000)	2415.8	3735. 6	596.3	106.7	10.2	6864.6

2.3.2 SC Population

Table 5: District wise distribution of SC Population in HP

DICTRICTO		Rural			Urban			Total	
DISTRICTS	P_SC	M_SC	F_SC	P_SC	M_SC	F_SC	P_SC	M_SC	F_SC
Bilaspur	26%	26%	26%	21%	21%	22%	26%	26%	26%
Chamba	22%	22%	22%	17%	16%	18%	22%	21%	22%
Hamirpur	24%	25%	24%	18%	18%	18%	24%	25%	23%
Kangra	21%	22%	21%	17%	17%	17%	21%	21%	21%
Kinnaur	18%	16%	19%	-	-	-	18%	16%	19%
Kullu	29%	29%	29%	17%	17%	18%	28%	28%	28%
Lahul & Spiti	7%	7%	7%	-	-	-	7%	7%	7%
Mandi	30%	30%	30%	21%	21%	21%	29%	30%	29%
Shimla	29%	29%	30%	18%	18%	19%	27%	26%	27%
Sirmaur	32%	31%	32%	19%	19%	20%	30%	30%	31%
Solan	31%	31%	31%	15%	15%	17%	28%	28%	29%
Una	23%	23%	23%	17%	16%	17%	22%	22%	22%
HIMACHAL PRADESH	26%	26%	26%	18%	17%	18%	25%	25%	25%
HIMACHAL PRADESH TOTAL POP ('000)	6,176	3,110	3,065	688	371	317	6,864	3,481	3,382

SC population in HP is 25% of the population of the state. SC population is 26% in rural areas however in urban areas they are only 18% of the total population.

2.3.3 ST Population

Table 6: District wise Distribution of ST Population in HP

Pintin		Rural			Urban			Total	
Districts	P_ST	M_ST	F_ST	P_ST	M_ST	F_ST	P_ST	M_ST	F_ST
Bilaspur	3%	3%	3%	1%	1%	1%	3%	3%	3%
Chamba	28%	28%	28%	7%	7%	8%	26%	26%	26%
Hamirpur	1%	1%	1%	1%	1%	1%	1%	1%	1%
Kangra	6%	6%	6%	5%	5%	5%	6%	6%	6%
Kinnaur	58%	51%	66%	-	-	-	58%	51%	66%
Kullu	3%	3%	3%	11%	10%	11%	4%	4%	4%
Lahul & Spiti	81%	77%	87%	-	-	-	81%	77%	87%
Mandi	1%	1%	1%	1%	1%	1%	1%	1%	1%
Shimla	1%	1%	1%	2%	2%	2%	1%	1%	1%
Sirmaur	2%	2%	2%	1%	1%	1%	2%	2%	2%
Solan	5%	5%	5%	2%	1%	2%	4%	4%	5%
Una	2%	2%	2%	0.3%	0.3%	0.3%	2%	2%	2%
HIMACHAL PRADESH	6%	6%	6%	3%	2%	3%	6%	6%	6%
HIMACHAL PRADESH TOTAL POP ('000)	6,176	3,110	3,065	688	371	317	6,864	3,481	3,382

ST Population comprises of 6% of total population of the state. However ST population is quite dominant in Lahul & Spiti and Kinnaur – two rural districts of the state, where they contribute to 81% and 58% of the total population of the districts respectively.

2.3.4 Population Density

Population density per square kilometer of area has nearly doubled over the last forty (40) years. As per Census 2011, population density recorded was 123 persons per sq. km., which is almost double of 62 as recoded in the year 1971. Hamirpur (407), Una (338), Bilaspur (327), Solan (300), Kangra (263), Shimla (159) are some more densely populated districts of the state. Kinnaur (13) and Lahaul Spiti (2) have the least population density.

2.3.5 Life Expectancy at birth

Life expectancy at birth has increased continuously over years. For the period 2006-10, the male life expectancy at birth was 67.7 years as compared to 72.4 years for females. It is 3.4 years longer than the national average. The infant mortality rate stood at 40 in 2010, and the crude birth rate has declined from 37.3 in 1971 to 16.9 in 2010, below the national average of 26.5 in 1998. The crude death rate was 6.9 in 2011.

2.4 Education

Since the late 20th century, Himachal Pradesh has made considerable efforts to expand education. Consequently, there has been a remarkable rise in the number of primary, secondary, and post - secondary institutions and a corresponding increase in enrollment at all levels.

Himachal Pradesh University, founded in 1970 in Shimla, was the state's first institution of higher education; it now has dozens of affiliated or associated colleges. Other major tertiary institutions include a medical college in Shimla, an agricultural university in Palanpur, an engineering college in Hamirpur, a university of horticulture and forestry near Solan, and a university of information technology, also in Solan district. In addition to its universities and colleges, Himachal Pradesh has some important research centres, most notably the Indian Institute of Advanced Study in Shimla and the Central Research Institute in Kasauli.

Himachal ranks 3^{rd} in the entire country in terms of literacy in rural and urban areas while the state with overall literacy level of 83% ranks 4^{th} in overall literacy level closely following Kerala (91%), Mizoram (89%) and Lakshadweep (87%) – the three top ranking states.

Hamirpur, Una and Kangra are the three top ranking districts in HP with literacy rates of 88%, 87% and 86% respectively. State has a high literacy rate of 93% and 89% in urban and rural areas, amongst male population however the female literacy rate is lagging behind at 75% in the rural areas.

Table 7: Literacy Rate in Rural and Urban areas of HP

				LITER	ACY F	RATES						LATION
DISTRICTS		Rural			Urban		Total			ABOVE 6 YRS ('000)		
	POP	M	F	POP	М	щ	POP	M	E	POP	М	L
Bilaspur	84%	91%	77%	92%	94%	89%	85%	91%	78%	340	171	169
Chamba	71%	82%	60%	92%	95%	88%	72%	83%	62%	449	225	223
Hamirpur	88%	94%	82%	93%	95%	90%	88%	94%	83%	406	191	215
Kangra	85%	91%	80%	90%	93%	87%	86%	91%	80%	1345	663	683
Kinnaur	80%	87%	71%	-	-	-	80%	87%	71%	76	42	34
Kullu	78%	87%	70%	88%	91%	85%	79%	87%	71%	387	200	188
Lahul & Spiti	77%	86%	67%	-	-	1	77%	86%	67%	28	15	13
Mandi	81%	89%	73%	92%	94%	89%	82%	90%	74%	888	440	448
Shimla	80%	88%	73%	93%	95%	91%	84%	90%	77%	732	383	350
Sirmaur	77%	85%	69%	91%	93%	88%	79%	86%	71%	460	240	220
Solan	82%	89%	75%	90%	92%	88%	84%	90%	77%	512	273	239
Una	87%	92%	81%	87%	90%	83%	87%	92%	81%	462	232	230
HIMACHAL PRADESH	82%	89%	75%	91%	93%	88%	83%	90%	76%	6087	3074	3012

DISTRICTS			ITERACY RATES Urban Total					TOTAL POPULATION ABOVE 6 YRS ('000)				
	POP	M	F	POP	M	F	POP	M	F	POP	M	F
POP. HP > 6 YRS ('000)	5463	2737	2726	623	337	287	6087	3074	3012			
Rank in India	3	3	4	3	4	3	4	4	5			
Literacy Rate Kerala	90%	94%	87%	93%	96%	91%	91%	94%	88%			
Literacy Rate India	59%	71%	46%	80%	86%	73%	65%	75%	54%			

As evident from above, Himachal Pradesh ranks third in the country in terms of literacy. This is a positive indicator that community engagement is possible and communication with communities can be less arduous. With high literacy rates skill development programs taken up can show good results.

2.5 Employment

Table 8: Workers and Main Workers Population (in '000) in HP

DICTRICTS		Total Workers	5	Main Work	ers as % of To	tal Workers
DISTRICTS	POP	M	F	POP	M	F
Bilaspur	205.9	111.5	94.3	50%	66%	32%
Chamba	294.0	158.8	135.2	41%	56%	24%
Hamirpur	241.9	118.7	123.2	52%	63%	41%
Kangra	675.2	403.8	271.4	47%	61%	25%
Kinnaur	56.3	33.9	22.4	83%	88%	75%
Kullu	269.1	148.8	120.3	72%	80%	62%
Lahul & Spiti	19.3	10.8	8.5	79%	81%	76%
Mandi	572.7	297.5	275.2	50%	62%	36%
Shimla	430.9	258.6	172.3	72%	83%	56%
Sirmaur	280.1	169.4	110.7	69%	80%	53%
Solan	298.7	190.0	108.7	74%	84%	56%
Una	215.3	141.6	73.7	63%	75%	39%
HIMACHAL PRADESH	3559.4	2043.4	1516.0	58%	71%	41%

Out of a total of around 6.9 million people in the state only around 52% are engaged in some sort of economic activities and 30% them are Main workers. 18% of the female population is main workers while 41% males are main workers. 70% of total workers are Main workers among Male Population while only 41% of the female work force is Main Workers. 42% of the total work force of the state falls under the category of Marginal Workers. 17% of Male population and 26% of female population falls under this category.

Table 9: District wise Distribution of Marginal Workers in HP

DISTRICTS	Margin	al Workers as % Population	6 of Total	Marginal Workers as % of Total Workers			
	POP	M	F	POP	M	F	
Bilaspur	27%	20%	34%	50%	34%	68%	
Chamba	34%	27%	40%	59%	45%	76%	
Hamirpur	25%	20%	30%	48%	36%	59%	
Kangra	24%	21%	27%	54%	39%	75%	
Kinnaur	11%	9%	15%	17%	12%	25%	
Kullu	17%	13%	21%	28%	20%	38%	
Lahul & Spiti	13%	12%	14%	21%	19%	24%	
Mandi	29%	22%	35%	50%	38%	64%	
Shimla	15%	10%	19%	28%	17%	44%	
Sirmaur	16%	12%	20%	31%	20%	47%	
Solan	14%	10%	17%	27%	17%	44%	
Una	16%	14%	18%	38%	25%	61%	
HIMACHAL PRADESH	22%	17%	26%	42%	30%	59%	
Total Population ('000)	6865	3482	3383	1497	604	893	

Non-workers are 48% of the total population of the state. Maximum non-workers are found in Una and Kangra districts where the non-worker population is 59% and 55% respectively. 55% of the females and 41% males are non- workers in the state. Highest number of female non-workers as compared to the total female population of the district is reported in Una, Kangra and Solan with 71%, 64% and 60% respectively.

Table 10: District Wise Distribution of Non-Workers in HP

DISTRICT	NON_WORK_P	NON_WORK_M	NON_WORK_F
Bilaspur	46%	42%	50%
Chamba	43%	39%	48%
Hamirpur	47%	45%	48%
Kangra	55%	46%	64%
Kinnaur	33%	27%	41%
Kullu	39%	34%	43%
Lahul & Spiti	39%	35%	43%
Mandi	43%	40%	45%
Shimla	47%	39%	56%

DISTRICT	NON_WORK_P	NON_WORK_M	NON_WORK_F
Sirmaur	47%	39%	56%
Solan	49%	38%	60%
Una	59%	46%	71%
HIMACHAL PRADESH	48%	41%	55%

From the above it can be seen that the percentage of main workers, in the project area, except for Mandi is above the state's average; this is the case for marginal workers too. The percentage of non-workers in the project area, except for Solan, is less than the state's average. From this, it is evident that people in the project area are more occupied with their professions. Though the project area ranks better than the other districts, the female population is lagging behind and this is a matter of concern.

2.6 Agriculture

Agriculture is the main occupation of the people of the state. About 69 per cent of the main workers are engaged in agricultural pursuits. Agriculture is beset with the disadvantage of small holdings. Only 75 per cent of the total reporting area is available for cultivation. Out of this area, 'net area sown' and 'current fallows' account for only 13 per cent. There is hardly any scope for mechanized farming due to preponderance of small holdings and terraced fields. Against all these odds, the farmers of Himachal Pradesh are constantly endeavoring to exploit fully the agricultural potential of the State to increase food production and also to supplement the income by producing quality cash crops. Wheat, barley, paddy and maize are the important cereal crops under cultivation. Seed potato, ginger and off-season vegetables are the important cash crops.

Table 11: District wise Distribution of Land available for Agriculture in HP

Year/ District	Geographical Area by village papers (ha)	Tree crops & Groves	Culturable wasteland	Current Fallows	Net area sown	Area sown more than once	Agricultural Land	CROPPING INTENSITY
Bilaspur	111776	0.1%	5%	1%	26%	95%	33%	195%
Chamba	692419	0.03%	1%	0.3%	6%	63%	7%	163%
Hamirpur	110224	0.001%	10%	5%	32%	92%	47%	192%
Kangra	577681	1%	5%	2%	20%	84%	27%	184%
Kinnaur	624216	0.02%	1%	0.2%	1%	28%	2%	128%
Kullu	64224	6%	2%	4%	60%	55%	66%	155%
L&S	911206	0.01%	0.1%	0.01%	0.4%	4%	0.4%	104%
Mandi	397948	0.1%	1%	2%	22%	81%	25%	181%
Shimla	525386	2%	2%	3%	13%	31%	18%	131%
Sirmaur	224760	16%	5%	2%	18%	88%	25%	188%

Year/ District	Geographical Area by village papers (ha)	Tree crops & Groves	Culturable wasteland	Current Fallows	Net area sown	Area sown more than once	Agricultural Land	CROPPING INTENSITY
Solan	180923	0.3%	8%	1%	21%	65%	31%	165%
Una	154875	4%	15%	2%	25%	92%	41%	192%
НР	4575638	1%	3%	1%	12%	73%	16%	173%

Most people in Himachal Pradesh depend for their livelihood on agriculture, pastoralism, transhumance (seasonal herding), horticulture, and forestry. However, the government of Himachal Pradesh has encouraged the development and dispersal of manufacturing, with different towns—mostly in the southern part of the state—often specializing in the manufacture of particular goods.

Table 12: Main Workers Engaged in Agriculture and Allied Activities

Tuble 12. Iviu				S ENGA	GED I	N AGF		JRE AI	ND AL	LIED SEC				TAL MA RKERS ('(
DISTRICT	CUI	CULTIVATORS		AGRICULTURAL LABOUR		ALLIED ACTIVITIES		TOTAL			202		_		
	PO P	M	F	PO P	М	F	PO P	М	F	РОР	M	F	POP	M	F
BILASPUR	39 %	27 %	68 %	1%	1 %	1 %	2%	2 %	2 %	42%	30 %	71 %	103	73	30
СНАМВА	43 %	37 %	59 %	2%	2 %	3 %	4%	3 %	4 %	49%	42 %	67 %	121	89	32
HAMIRPUR	43 %	23 %	72 %	3%	2 %	4 %	2%	1 %	2 %	47%	26 %	78 %	126	75	51
KANGRA	22 %	18 %	38 %	4%	3 %	4 %	2%	2 %	3 %	28%	23 %	44 %	315	246	69
KINNAUR	55 %	43 %	77 %	4%	4 %	4 %	1%	1 %	1 %	60%	48 %	81 %	47	30	17
KULLU	68 %	61 %	80 %	4%	4 %	4 %	1%	1 %	1 %	74%	66 %	85 %	193	119	75
LAHUL & SPITI	58 %	46 %	75 %	2%	2 %	1 %	1%	2 %	0 %	62%	50 %	77 %	15	9	6
MANDI	52 %	42 %	72 %	2%	2 %	2 %	1%	2 %	1 %	55%	45 %	75 %	284	186	99
SHIMLA	50 %	44 %	64 %	6%	5 %	6 %	1%	2 %	1 %	57%	51 %	71 %	311	215	97
SIRMAUR	60 %	53 %	75 %	3%	3 %	3 %	1%	1 %	1 %	64%	58 %	79 %	194	135	59
SOLAN	36 %	27 %	61 %	3%	2 %	3 %	1%	1 %	1 %	40%	31 %	65 %	220	160	61
UNA	26 %	23 %	40 %	5%	5 %	4 %	3%	1 %	8 %	34%	29 %	53 %	135	106	29

HIMACHAL PRADESH	45 %	36 %	65 %	3%	3 %	4 %	2%	2 %	2 %	50%	41 %	70 %	2066	1441	624
MAIN WORKERS ('000)	920	515	405	69	46	22	36	24	12	102 5	585	439	2066	1441	624

50% of the main workers are engaged in some sort of agriculture or allied activities, 70% female main workers are engaged in agriculture, this percentage goes upto 66% and 85% in Kullu for male and female workers respectively. Kullu Sirmaur and Lahul & Spiti are the top three districts where agriculture is the main activity of the workers. Most of the workers engaged in agriculture are cultivators on their own land and they are 45% of the total main workers. Females mostly prefer to work on their own land and this is evident from the fact that 65% of the female main workers are cultivators.

Agriculture faces many challenges in the state, such as a) fragmentation of land-holdings, b) seeds quality and availability, c) Poor irrigation facilities, d) Soil erosion due to deforestation in the upstream regions, e) poor agricultural marketing opportunities, f) Inadequate storage and warehousing facilities, g) Man- animal conflict- the menace of monkeys and other wildlife in areas near forests h) High cost of transport, especially from higher altitudes and i) Low availability of institutional credit. These together have propelled small and marginal farmers from the project areas to shift from agriculture and migrate to urban growth centres in search of employment. This coupled with gradual degradation of the forest resources has increased the vulnerability of communities living near forests. Under this situation, improved access to quality forest resources can be an alleviation and can offer certain relief to the small and marginal farmers.

2.6.1 Manufacturing

The town of Nahan, for instance, is known for its production of agricultural implements, turpentine, and resin, while television sets, fertilizer, beer, and liquor have been among the major manufactures of Solan. Meanwhile, Rajban is identified with cement production, and Parwanoo is recognized for its processed fruits, tractor parts, and electronics. Shimla is also known for its manufacture of electrical goods, while paper and hardboard products generally have come from Baddi and Barotiwala. Alongside the growth of heavier industry, thousands of artisan-based small-scale manufacturing units have remained in operation across the state.

2.6.2 Land Holdings

Out of the total geographical area of 55.67 lakh hectare the area of operational holdings is about 9.55 lakh hectares and is operated by 9.61 lakh farmers. The average holding size is about 1.00 hectare. Distribution of land holdings according to 2010-11 Agricultural Census shows that 87.95 percent of the total holdings are of

small and Marginal. About 11.71% of holdings are owned by Semi Medium and Medium farmers and only 0.34% by large farmers.

Table 13: Distribution of Landholding by Area in HP

Size of Holdings (ha)	Category (Farmer)	No. of Holdings (Lakhs)	Area (lakh ha)	Av. Size of Holding (ha)
Below 1.0	Marginal	6.70 (69.78%)	2.73 (28.63%)	0.41
1.0 - 2.0	Small	1.75 (18.17%)	2.44 (25.55%)	1.39
2.0 - 4.0	Semi Medium	0.85 (8.84%)	2.31 (24.14%)	2.72
4.0 - 10.0	Medium	0.28 (2.87%)	1.57 (16.39%)	5.61
10.0 - Above	Large	0.03 (0.34%)	0.51 (5.29%)	17.00
	Total	9.61	9.55	1.00
		Source:	Economic Survey of Him	achal Pradesh 2014-15

Source: Economic Survey of Himachal Pradesh 2014-15

The main reason such small holdings is the gradual fragmentation and shift of people from the primary to the tertiary sector. Sub-division and fragmentation of the holdings is also the main causes of low agricultural production and productivity forcing people to supplement their incomes through other sub-optimal and low paying income opportunities, including collection and sale of NTFPs and fodder and creating more pressure on the forest resources. Hence, as it came out during consultations held for preparation of the SMF, many small farmers are migrating to urban areas/ peri-urban areas in search for work. Increasing access to forests and developing forest resources can expand people's choices.

2.7 Resources and power

The state has implemented a series of development plans based on the utilization of its abundant hydropower potential and mineral and forest resources. Himachal Pradesh produces a significant portion of India's hydroelectric power. Existing hydropower plants include a station on the Ulh River at Jogindarnagar, the massive Bhakra Dam on the Sutlej River, the Pong Dam on the Beas River, and the Giri Dam on the Giri River. Himachal Pradesh also has embarked on joint-venture hydropower projects with the central government, such as the large Nathpa Jhakri project in Shimla district. To combat a serious soil-erosion problem in the Shiwaliks and to protect the fragile Himalayan ecosystem, the state has launched a reforestation program. It also has instituted stricter enforcement of environmental laws.

2.8 Transportation

Despite its remote location, Himachal Pradesh has a reasonably well-developed infrastructure that not only has aided domestic mobility but also has helped in the promotion of tourism. Scenic narrow-gauge rail lines run from Kalka to Shimla and from Pathankot (in Punjab) to Jogindarnagar. There also is a railhead in Una. Roads, however, crisscrossing through the ranges and valleys, serve as the communications lifeline of Himachal Pradesh; the state operates many bus routes throughout the network. Regular domestic air service is available in Shimla and Kullu.

2.8.1 Road Network

Roads are the major mode of transport in the hilly terrains. The state has road network of 28,208 kilometers (17,528 mi), including eight National Highways (NH) that constitute 1,234 kilometers (767 mi) and 19 State Highways with a total length of 1,625 kilometers (1,010 mi). Some roads get closed during winter and monsoon seasons due to snow and landslides. Hamirpur has the highest road density in the country.

The density of motorable roads per 100 sq. km of area in Himachal Pradesh stood at 63.09 km as against 115 km which is the average for the country at the end of 2015-16 as per Directorate of Economics and Statistics. Himachal Pradesh is connected with nine national highways (NH) with total 1235 km length namely NH-A, NH-20, NH-21, NH-22, NH-88, NH-70 etc. and nineteen state highways.

Most of the roads connecting Leh from different points of state remain closed in almost all winter season. District Hamirpur in Himachal Pradesh has the maximum density of roads in the country. In nutshell, this hilly state holds number one rank in roads amongst other Indian hills states regarding road networking and their conditions. Road transport is the principal mode of transportation in Himachal Pradesh. Passenger Transport is managed by a Government Owned Himachal Road Transport Corporation (HRTC). As on 31st March, 2016 this Corporation had 2,735 buses, 19 trucks and 73 other vehicles.

2.8.2 Railway transport

Himachal is known for its narrow-gauge railways. One is the Kalka-Shimla Railway, a UNESCO World Heritage Site, and another is the Pathankot-Jogindernagar line. The total length of these two tracks is 259 kilometers (161 mi). The Kalka-Shimla Railway passes through many tunnels, while the Pathankot-Jogindernagar meanders through a maze of hills and valleys. It also has broadgauge railway track, which connects Amb (Una district) to Delhi. A survey is being conducted to extend this railway line to Kangra (via Nadaun). Other proposed railways in the state are Baddi-Bilaspur, Dharamsala-Palampur and Bilaspur-Manali-Leh.

There are only two narrow gauge railway lines connecting Shimla with Kalka (96 km.) and Jogindernagar with Pathankot (113 km) and one 33 km broad gauge railway line from Nangaldam to Charuru for Una District.

The challenges of poor connectivity and difficult terrain create constraints of increased travel times, high transaction cost and also proves to be a constraint for agricultural and NTFP market development and other employment and income generating opportunities. Under these circumstances, the project would help to provide some opportunities of employment in nurseries, forestry operations/management, NTFPs value addition and also by exploring expanding the potential for eco-tourism.

2.9 Forests

The forests of the State have been classified on an ecological basis as laid down by Champion and Seth, and can be broadly classified into Coniferous Forests and broad-leaved Forests. Distribution of various species follows fairly regular altitudinal stratification. The vegetation varies from Dry Scrub Forests at lower altitudes to Alpine Pastures at higher altitudes. In between these two extremes, distinct vegetation zones of Mixed Deciduous Forests, Bamboo, Chil, Oaks, Deodar, Kail, Fir and Spruce, are found.

The richness and diversity of flora can be gauged from the fact that, out of total 45,000 species found in the country 3,295 species (7.32%) are reported in the State. More than 95% of the species are endemic to Himachal Pradesh and characteristic of Western Himalayan flora, while about 5% (150 species) are exotic, introduced over the last 150 years. The total area of Himachal Pradesh is 55,673 sq. km, out of this 66.52% of the area of the state is legally defined as forestland. This already underscores the importance of forest in the lives of people in Himachal Pradesh. (A list of commercially identified Forest Produce, a list of Animal Species and their status and a list of National Parks and Sanctuaries is appended.)

Table 14: Forest Cover in Himachal Pradesh (Area in km²)

District	Geographical Area	Very Dense Forest	Mod. Dense Forest	Open Forest	Total	% of Total Area
Bilaspur	1167	24	171	167	362	31%
Chamba	6522	853	773	811	2437	37%
Hamirpur	1118	39	91	115	245	22%
Kangra	5739	310	1221	537	2068	36%
Kinnaur	6401	82	262	260	604	9%
Kullu	5503	586	785	588	1959	36%

District	Geographical Area	Very Dense Forest	Mod. Dense Forest	Open Forest	Total	% of Total Area
Lahul Spiti	13841	15	32	148	195	1%
Mandi	3950	373	735	568	1676	42%
Shimla	5131	739	1037	616	2392	47%
Sirmaur	2825	130	568	687	1385	49%
Solan	1936	55	404	391	850	44%
Una	1540	18	302	203	523	34%
Grand Total	55673	3224	6381	5091	14696	26%

There are 5 National Parks in Himachal Pradesh 3 in Kullu and 1 each in Sirmour and Lahul Spiti, 26 sanctuaries and 3 Conservation Reserves.

Table 15: Area under National Parks, Sanctuaries and Conservation Reserves

DISTRICT	NATIONAL PARKS	SANCTUARIES	CONSERVATION RESERVE	Grand Total
Bilaspur	-	-	17	17
Chamba	-	985	-	985
Kangra	-	1190	-	1190
Kinnaur	-	838	-	838
Kullu	1704	296	-	2001
Mandi	-	62	-	62
Shimla	-	228	-	228
Sirmour	28	59	-	87
Solan	-	47	2	49
Lahul - Spiti	675	2259	-	2934
Grand Total	2407	5965	19	8391

2.9.1 Participation in forest management for livelihood

Most rural people in HP use significant quantities of forest goods and services, for some of which there is no available substitute, although few people are totally dependent on forest products. However, some local stakeholders are highly dependent upon forest products for much of their livelihood, currently at a subsistence level. In some places there is high potential for building forest - based enterprises in production of forest goods, tourism, etc.

Himachal Pradesh has around two decades of experience with the JFM approach. The state government issued the first JFM Notification in 1993 for constitution of

Village Forest Development Committees (VFDCs). In 2001, Himachal Pradesh Participator)' Forest Management Rules were issued for registration of Village Forest Development Societies (VFDSs) under the Societies Registration Act. Subsequently - 2002-03 onwards - JFMCs were constituted and federated into FDAs at the Forest Division level with support from NAP. The JFMCs are registered with HPFD as per the provisions of the NAP guidelines, whereas FDAs are registered as Societies. The SFDA was constituted in 2010 in accordance with the central guidelines.

There have been significant efforts to improve people's participation in recent years, notably the spread of nearly 360 Village Forest Development Societies (VFDS) under 'Sanjhi Van Yojna', HP's programme of Joint Forest Management (JFM). However the Forest Sector Review- FSR identified challenges within the community/ local-level organizations themselves, with relations between them, and with their relations with the HPFD. For example:

- There is a need for greater equity within village institutions, to overcome the tendency towards concentration of powerful groups.
- Given the proliferation of community organizations concerned with forestry (which was not reviewed in a comparative manner until the work of the FSR), there is a need for clarity and coordination concerning their respective rights, responsibilities and objectives, and their relations with each other and with other institutions.
- The sustainability of project sponsored village forest institutions is under question, which emphasizes the importance of local 'ownership' of the institution.
- There remains a clear need to efficiently delegate regulatory functions to village institutions

Table 16: Village Institutions formed under Different Projects in HP

S.No	Name of	Year	Name of Village Institution	No. of Village	Registered under
	Projects/Schemes			Institutions	
1	HP Forestry Project (HPFP)	1994-2001	Village Forest Development Committees (VFDCs)	154	JFM Notification dated 12.5.1993
2	Indo-German Eco- Development Project	1994-2005	Village Development Committees (VDCs)	294	JFM Notification dated 12.5.1993
3	IWD (Kandi) Project	1993-2005	Village Development Committees (VDCs)	137	Societies of Registration Act 1860
4	Sanjhi Van Yojana (SVY)	1998 -	Village Forest Development Societies (VFDS)	360	Societies of Registration Act 1860
5	Great Himalayan National Park	1993 -	Village Eco-Development Committee (VEDCs)	18	Director , GHNP
6	Mid Himalayan Watershed Dev Project	2005 -	Gram Panchayats	602	
7	National Afforestation Programme (NAP)	2010 -	Joint Forest Management Committees (JFMC)	963 JFMCs	Registered by CFs/DFOs as per the

S.No	Name of Projects/Schemes	Year	Name of Village Institution	No. of Village Institutions	Registered under
					provision laid down in Revised Operational Guidelines, 2009 of NAEB.
8	Integrated Watershed Management Swan River Project	2006 -	Project Development Committees	Not available	Societies of Registration Act 1860

2.9.2 Outturn of Forests

Table 17: Outturn of Forests in HP

Name of Produce	Quantity		Estimated Value (Rs. in lac)		
	2011-12	2012-13	2011-12	2012-13	
Timber (m³)	146057	207041	36824.72	48945.27	
Firewood (MT)	16	9	1.04	0.59	
Charcoal (MT)	2	24	0.18	3.20	
Resin (MT)	5825	5577	1024.57	762.78	
Bamboos (ha.)	675	508	29.01	7.38	
Bhabbar Grass (MT)	524	460	3.32	0.37	
Grazing/Fodder (MT)	-	-	9.47	9.18	
Medicinal -herbs (MT)	694	253	331.90	333.23	
Other Minor Produce (MT)	-	-	17.37	27.68	
Khair (MT)	971	3042	419.81	1315.08	
Total :			38661.39	51404.76	

Timber has been the most important and valuable product of the forests. But since last three decades or so the focus on production has shifted to non-timber forest products specially, after 1988 National Forest Policy. The timber production from the forest has declined due to increased emphasis on forest conservation. Himachal Pradesh contribute to around 12% of the total timber production at 272 cum is ranked 2nd in the country only after Uttar Pradesh with 313.13 cum.

Table 18: Top 10 Timber producing states in India

State	2006-07	2007-08	2008-09	2009-10	% of total (2009-10)
Andhra Pradesh	293.11	191.85	88.64	116.05	5%
Chhattisgarh	176.45	209.32	173.49	199.32	9%
Haryana	165.73	140.76	166.66	164.12	8%

Himachal Pradesh	220.82	246.97	227.98	272	12%
Jammu & Kashmir	80.85	68.49	71.55	61.32	3%
Madhya Pradesh	313.42	372.06	336.95	143.74	7%
Maharashtra	119.12	132.61	141	125.47	6%
Punjab	129.06	72.33	69.76	79.58	4%
Uttar Pradesh	200.58	310.67	300.08	313.13	14%
Uttarakhand	283.08	310.58	271.62	242.62	11%
West Bengal	114.59	231.58	151.12	183.4	8%
Other States	308.23	327.96	325.17	284.34	13%
Total	2405.04	2615.18	2324.02	2185.09	

As is evident from the tables, the availability of forest resources like bamboo, grasses/ fodder and medicinal and aromatic plants (MAPs), on which vulnerable communities are dependent, has come down over the years, as a result of degradation in forest quality, as well as policies and practices that have locked these resources. At the same time the timber extraction has continued and increased due to the same policies and practices. This adversely impacts the forest dependent communities as they keep losing the critical support provided by the forest resources. This results in them abandoning their customary role in forest protection and conservation, decreasing stake in forest management and the resultant depletion and deterioration in the quality of forests.

2.10 Climate Change Issues

Himachal Pradesh is facing impacts of climate change as temperatures are rising and rainfall as well as snowfall are becoming erratic, affecting forests, agriculture, horticulture and livelihoods. The monsoon in state is increasing but overall rainfall is on a decline. The snowfall days in Shimla are also showing a decreasing trend. The glaciers were direct indicators of climate change. Due to increase in temperatures, in Spiti valley, deglaciation has been to the extent of 10-12 percent between 2001 and 2007. The rate of retreat of glaciers in Baspa and Parvati basins has also been fast since 1962, in some cases as high as 172 meters per year. Area under snow cover too has changed between October to June in six basins. The decline in snow cover ranges between 5-37% for 2010- 2014 period as compared to 2015-16. Climate change has also affected quality as well as yield of the apple crop. As a result, farmers have shifted to other horticultural crops such as pomegranate and even vegetables like cabbage in the apple orchards.

Climate change manifests significantly in Himachal Pradesh, with the impacts likely to adversely affect large percentage of the population depending on natural resources.

2.10.1 Impact on Forests

Forests in Himachal Pradesh are an important ecological and natural resource and have been aptly termed as "Green Pearl" in the Himalaya. About 26% of the State's geographical area is the repository of 3,295 species out of which 95% are endemic to the state and 5% (150) species are exotic, most of the people in rural areas in the State depend directly or indirectly on forests for their livelihood and use significant quantity of forest goods and services like non-wood forest products, eco-tourism, fodder, timber, etc.

The immediate repercussions of climate change on the forests are visible in the form of shifting of tree line to higher altitudes and movement of pine species to higher altitudes. Available data on climate suggested that by 2100, under the most probable scenario, temperature of the state is likely to increase by 3°C and precipitation will decrease by 20% and in that situation the effects will be more visible and alarming also.

A large scale shifting of forest biomes and impacts on bio- diversity of its forests has been indicated.¹ This is also likely to increase the vulnerability of forest dependent communities for whom forest help in increasing resilience and help in adaptation to impacts of climate change.

2.10.2 Bio-diversity

- Himachal Pradesh being a mountain State is rich in floral and faunal bio-and has a good stock of medicinal and aromatic floral resources which plays a major role in people's livelihoods.
- With the changing climate, many species are either facing the problem of extinction or declining because of rising temperature affecting health, well-being and livelihood of the people who rely on such resources and also facilitating the rampant expansion of invasive species like lantana in the forests of the state.

2.10.3 Water Resources

- Climate Change induced weather extremes such as unprecedented drought, frequent floods, cloud bursts, erratic and changing pattern of rain and snowfall, higher temperature and milder and late winters have affected the availability of natural resources in general and the water in particular.
- Over the years, the water availability in all towns of the State has declined and majority of them are facing scarcity. The traditional water sources in many areas are either on the verge of extinction or have dried up. Any change in the behaviour of water resources is also likely to have an adverse impact on the overall economy of the State.

¹ www.indianforester.co.in

2.11 Cultural life

The fairs and festivals of the rural communities provide many occasions for song, dance, and the display of colorful garments. The Kullu valley, known as the valley of the gods, provides the setting for the Dussehra festival held each autumn. Pilgrims from neighboring states and from within Himachal Pradesh itself converge in large numbers to worship at shrines of legendary antiquity. The town of

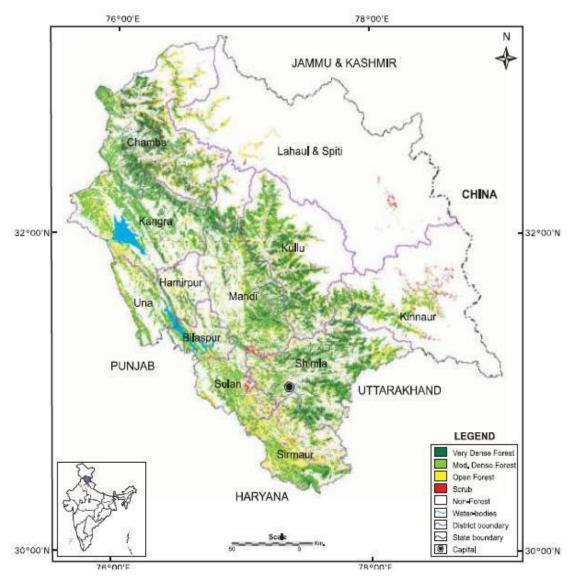


Figure 2: Forest Map of HP

Dharmshala has more recently emerged as a sacred site, particularly for Tibetan Buddhists; it was in Dharmshala that the Dalai Lama settled after he fled from Tibet in 1959 in the wake of China's occupation of Lhasa. Aside from their festivals and sacred sites, the Shimla hills, the Kullu valley (including the town of Manali), and Dalhousie are popular tourist destinations, especially for outdoor recreation. Indeed, skiing, golfing, fishing, trekking, and mountaineering are among the activities for which Himachal Pradesh is ideally suited.

3. Legal and Policy Framework

3.1 Introduction

This section reviews such safeguards and the associated laws and regulations governing tribal development and forestry activities in the state.

3.2 Some Important Legal Provisions Related to Forest Management, Dependents and Tribal Interests

Some important legal and policy provisions of Government of India and Government of Himachal Pradesh are briefly described below:

Table 19: Some Important Legal Provision related to Forest Management

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
Constitutional Safeguards	The constitutional safeguards related to tribals are: (i) Article 14, related to Equal rights and opportunities; (ii) Article 15, prohibits discrimination on grounds of sex, religion, race, caste etc.; (iii) Article 15 (4), enjoins upon state to make special provisions for the Scheduled Tribes; (iv) Article 16 (3), empowers state to make special provisions for reservation in appointments or posts in favor of Scheduled Tribes; (v) Article 46, enjoins upon State to promote with special care educational and economic interests of Scheduled Tribes, protection from social injustice and exploitation; (vi) Article 275 (1), Grant-in-aid for promoting the welfare of Scheduled Tribes; (vii) Article 330, 332, 335, related to the reservation of seats for Scheduled Tribes in Lok Sabha and State Assemblies; and (viii) Article 339, 340, related to Control of the Union over the Welfare of Scheduled Tribes and powers to investigations thereof. Article 366 (25) refers to Scheduled Tribes as those communities, who are scheduled in accordance with Article 342 of the Constitution, wherein communities shall be declared as such by the President through an initial public notification or through a subsequent amending Act of Parliament. The Fifth Schedule under	These constitutional safeguards provides the following for the Scheduled Tribes: Equal rights and opportunities Prohibits discrimination Provides special provisions Provides for reservation Promotes educational and economic interests Protection from social injustice Protection against exploitation Promotes welfare

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
Indian Forest Act	Article 244(1) of Constitution defines "Scheduled Areas" as such areas as the President may by order declare to be Scheduled Areas after consultation with the Governor of that State. Defines following essential characteristics, for a community to be identified as Scheduled Tribes are; Indications of primitive traits; Distinctive culture; Shyness of contact with the community at large; Geographical isolation; and Backwardness. This Act enables the state to acquire ownership over forests and	• Creates barriers to benefit sharing, especially with
1927	their produce and regulate access, use and extraction of forest resources for consumptive use. Section 26 restricts grazing to only identified grazing units or in adjoining forest ranges.	 Creates barriers to benefit sharing, especially with regards to NTFPs and access to pastures Creates sanctions and punitive action that discourages access to and use of forest resources in Reserve Forests, unless specifically permitted In Protected Areas (PAs) it prevents/ regulates right of community/ individual to access any portion of protected forest for extracting forest produce, cut grass and pasture cattle. Takes ownership away from community, erodes customary rights & traditional practices, by shifting from community to scientific management of forests Poor community ownership and involvement can lead to resource degradation and perpetuate poverty in the long term

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
		• Access and benefit sharing to be determined by concerned authority, reducing incentives for community conservation.
The Himachal Pradesh Transfer of Land (Regulation) Act, 1968	Objective is to ensure protection to tribes in respect of their possession of land. It provides that "No person belonging to an Scheduled Tribe transfer his interest in any land by way of sale, mortgage lease, gift or otherwise to any person not belonging to such tribe except with the previous permission in writing of the Deputy Commissioner, excepting i) by way of lease of a building on rent; ii) by way or mortgage for securing loan to any Cooperative land Mortgage bank or cooperative society (all or majority members belonging to any ST) or by acquisition by the state government under LA act". Right, title or interest held by persons belonging to Scheduled Tribes in land are not be attached except when the amount due under such decree or order is due to the state government or to any cooperative land mortgage bank or cooperative society.	The act is applicable as the act's coverage extends to whole districts of Lahaul and Spiti and Kinnaur and to the sub-tehsils of Pangi and Bharmour in Chamba district; i.e., to all 5 ITDPs
Himachal Pradesh Public Premises and Land (Eviction and Rent Recovery) Act, 1971	An Act to provide for the eviction of unauthorized occupants from public premises and for certain incidental matters. DFOs have been delegated powers of Collectors under HP Public Premises & Land (Eviction & Rent Recovery) Act, 1971 to try the cases of encroached forest land vide Notification No. 1-21/71-LSG dated 8.6.1994. Form of order under sub-section (2) of section 7 of the Himachal Pradesh Public Premises and Land (Eviction and Rent Recovery) Act, 1971; In the event of your refusal of failure to pay the damages within the said period, the amount will be recovered as an arrear of land revenue.	Eviction of about 10,000 plots is in progress under High Court order. Forest Rights might be getting affected May not be in compliance with The World Bank safeguard policies.

Relevant Acts and	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
Policies of GoI		
and GoHP		
HP Tenancy and Land Reforms Act, 1972: Section 118 of Act Himachal Pradesh Tenancy and Land Reform Rules, 1975.	Provides for restriction on transfer of land in favour of a person who is not an agriculturist of the State. Amendments in Rule 38-A (a) (2) of the Himachal Pradesh Tenancy and Land Reform Rules, 1975 provides that for all purposes, other than for a dwelling unit or shop, any non-agriculturist seeking to acquire land with permission under section 118 of Himachal Pradesh Tenancy and Land Reform Act 1972, shall need an essentiality certificate (EC) from the concerned department that will certify his eligibility. It must also be stated that land required is as per norms and that NOCs from all relevant departments and authorities including Local Bodies have been obtained.	Places restrictions on land transfer to non-agricultural activities.
Wildlife (Protection) Act, 1972 and amendment 2002	An Act to promote conservation and development of wild life habitats, prescribes prohibitive and permissive provisions for use of forest resources in different categories of PAs. The amended Act provides for a licensing system to regulate cultivation and trade of specified plants and for creating Community Reserves (outside PA) to be conserved and protected by a Community Reserve Management Committee (CRMCs). Integrated Development of Wildlife Habitats is scheme under this act.	 Creates strict barriers for community access and use, by considering rights of community subservient to wildlife protection in the PAs. Only allows certain communities to pick, collect or possess forest resource for 'bona fide' personal use, not for commercial purpose. Lack of transparency in defining bona fide use, hence scope for exploitation Limited awareness & low capacity of community institutions to understand Act. Restricts diversion, limiting or enhanced flow of water into or outside the sanctuary and damage/ destruction of habitats, which covers activities related to Command Area Treatment (CAT) Does not allow construction of tourism infrastructure tourist lodges, hotels inside a sanctuary, without prior

Relevant Acts and	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
Policies of GoI and GoHP		
		 approval, imposing barriers for community managed eco-tourism initiatives No legal validity for Community Reserves, Sacred Groves or Community Conserved Areas (CCAs) outside PAs that are protected by the community CRMCs not linked to the PRIs and hence low legal validity Improved forest density and quality through community conservation efforts may led to better wildlife base, potential man-animal conflicts and notification of new PAs (in the long term) leading to further restrictions on access and use.
Land Reforms Legislations - HP Village Common Land Vesting and Utilization Act, 1974	Aims to stream line the utilization of village common lands popularly known as 'Shamlat Land'. Under this act, following categories of land were vested in the State Government Those areas which were vested in a Panchayat under section 4 of the Punjab Village Common Land (Regulation) Act, 1961, as enforced in merged areas of Himachal Pradesh under section 5 of the Punjab Re-organisation Act, 1966. This precludes lands used or reserved for the benefit of village community including streets, lanes, play-grounds, Schools, wells and ponds within Abadideh or Gohrdeh; areas which were described in the Revenue records as shamlat taraf, patties and thola, and not used as per revenue records for the benefit of the village community or a part thereof for community purposes of the village; Areas which were described in revenue records as shamlat, shamlat deh, taraf, shamat, shamlat chak and patti.	Some of the lands with the implementing agency could be subject to provisions of this act.

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
	This applied in respect of those areas which comprised Himachal Pradesh immediately before November 1, 1966. Through an amendment made later, the vested land can now also be transferred to some other Departments, of the State Government or can be given on lease to an individual in connection with development activities of the state.	
Forest (Conservation) Act, 1980	This Act aims at curbing deforestation and to conserve forests. The Act, among other things, strictly restricts use of forest for non-forest purpose, de-reservation of reserve forests and clear felling of naturally grown trees and use of forests for non-forestry purposes. Compensatory Afforestation Fund Management and Planning Authority (CAMPA) is a scheme under this Act.	 Further restricts fair and equitable access to forest bioresources, even for forests conserved and protected by community (non-reserve forests) Reduces incentives for community conservation, restriction on following traditional management practices and imposes forest working plan on any community initiated silvi-cultural operations. Seeks to protect forest dwellers against habitat loss, alienation and diversion of grazing lands and other common property resources (CPRs) Limited role of local community in planning compensatory afforestation, developing Catchment Area Treatment Plan (CATP), linking them to microplans. Poor implementation and consequent resource depletion can reduce community resilience and their adaptive capacity.
National Forest Policy 1988	It articulates the twin objectives of ecological stability and social justice; recognizes people's dependence and their symbiotic relation with forest, emphasizes protection of people's rights over forest resource and offers space for participation of forest dependent	• Lack of empowerment, low awareness about roles/ responsibilities among community institutions (JFMCs) to engage in forest governance.

November	2018
	4010

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
	communities in the conservation, protection and management of state-owned forests.	 Poor capacities to support preparation of forest working plans. Elite capture of community institutions and lack of representativeness. Limited community participation, especially of vulnerable communities, women head-loaders, pastoralists, nomadic communities in site or species selection, pasture development, zonation of grazing and in bio-diversity conservation. Poor linkage of JFMCs with Panchayats (PRIs) for stronger community stake. Recognizes subsistence needs of women, but doesn't ensure their quality representation in Executive Committees/ decision making positions in JFMCs. Restrictive interpretation of rights and concessions granted by the Policy (e.g. relative to carrying capacity of forest). Lack of transparency in development of benefit-sharing mechanisms and absence of co-management/actual ownership, impacting institutional sustainability. Absence of recognition of seasonal needs of pastoralist, nomadic communities. Absence of participatory monitoring or social audit systems to oversee implementation of Forest Working Plans or JFMC micro-plans.

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
		• Absence of efforts to align customary laws, practices and traditional knowledge in the overall forest governance.
Panchayat Raj Institutions 73 rd Amendment Act, 1992	The Act aims to provide a 3-tier system of Panchayat Raj for all States having a population of over 2 million, to hold Panchayat elections regularly every 5 years, to provide seats reservations for scheduled castes, scheduled tribes and women; to appoint a State Finance Commission to make recommendations regarding the financial powers of the Panchayats and to constitute a District Planning Committee, to prepare a development plan for the district. The 3- tier system of Panchayat Raj consists of: Village-level Panchayats; Block-level Panchayats and District-level Panchayats. Besides, it indicates the powers and responsibilities and also sources of funds. The Act provides for establishment of self-governance in rural areas, with primary mandate to work for economic development & social justice. Among 29 subjects devolved to PRIs most relevant are fuel and fodder, NTFP, social and farm forestry, small scale, khadi, cottage and village industries, watershed development. 14 th Finance Commission Grants is a scheme under this Act.	 Ineffective devolution of subjects and lack of systems to support PRIs. Absence of clarity among elected representatives regarding their mandate in the area of forest governance. Poor linkage between PRIs and local community institutions created by different forest legislations. Resulting inability of PRIs in ensuring equitable benefit sharing, inclusion, improved access or resource planning around forest resources. Lack of flexibility to PRIs to work on forest management using FFC grants received (based on conservation value of their forests and forest cover)
Joint Forest Management Policy 1993 (revised Feb 2000)	The policy seeks involvement of village communities in the regeneration of degraded forests and conservation of well-stocked forests. Subsequent guidelines shifted focus from timber to NTFP, encouraged people's participation in forest management, spelt mechanisms for sharing ecological as well as economic benefits with the community. National Afforestation Programme is a scheme under this Act.	 Despite the mandate, poor delegation of powers and hence low involvement of users in planning restoration/ management of forests and pastures. Lack of integration of JFM micro-plans with departmental working plans. Low effective representation of vulnerable communities, especially women, in decision making

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
The Scheduled	The act provides for specific provisions to prevent atrocities on the	 roles in VFCs/FPCs /EDCs, despite existence of such provisions. Low capacities among user groups, WSHGs, JFMCs to understand NTFP value chains, get better prices or improve incomes. Loss of traditional practices that assured sustainable NTFP harvest for optimized and long term returns.
Castes and Scheduled Tribes (Prevention of Atrocities) Rules, 1995	Scheduled Castes and the Scheduled Tribes and suggests State Government to frame rules for the same. These include identification of areas where atrocity may take place or there is an apprehension of reoccurrence of an offence under the Act. The State Government is required to set up a Scheduled Castes and the Scheduled Tribes Protection Cell at the State headquarters under the charge of Director of Police, Inspector-General of Police. This Cell is responsible for, conducting survey of the identified area; maintaining public order and tranquility in the identified area; recommending to the State Government for deployment of special police force or establishment of special police post in the identified area; and restoring the feeling of security amongst the members of the Scheduled Castes and the Scheduled Tribes	 Provides protection to Scheduled Castes and Tribes Prevents atrocities on Scheduled Castes and Tribes
Panchayat (Extension to Scheduled Areas) Act 1996	The Act empowers the Gram Sabha (GS) to safeguard and preserve traditions and customs of the people, their cultural identity, community resources (including ownership of forest resources) and the customary mode of dispute resolution, in the notified Scheduled Areas by upholding the rights of tribals to self-governance. It grants powers for decision-making to the habitation (<i>Grama Sabha</i>) and entitles them to ownership of NTFPs.	 National and state forest legislations have not been suitably modified to bring them in line with PESA, for decentralized governance and effective enforcement. Lack of complete ownership of NTFPs with the GS, and hence absence of power to independently plan determine prices and sell.

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
State	 Key provisions include: state legislation on Panchayats in the scheduled area should take care of the customs, religious practices and traditional management practices of community resources Every village shall contain a gram sabha whose members are included in the electoral list for the panchayats at village level Planning and management of minor water bodies are entrusted to the Panchayats The policy provides for creation of Village Forest Development 	 Issue of conflict between community institutions and forest department over right of ownership, access to collect, use and dispose NTFPs. Poor capacity of the GS to plan its development priorities and lack of recognition of GS' local development plans by the forest department. Neglect of mandatory mechanisms for seeking GS concurrence while planning interventions/ activities in the Scheduled Areas.
Participatory Forest Management Policy 2000	Society (VFDS), as a registered society to manage any government forest or common land brought under Participatory Forest Management. Provides usufruct and revenue sharing benefits to the society.	 Lack of community consultations for arriving at benefit sharing mechanisms. Issues of conflicts between different societies, and with transhumant communities/graziers, related to overlapping forest resources and pastures. Lack of integration of micro-plans prepared by the society for holistic forest development with the working plans.
National Agricultural Policy, 2000	The National Policy on Agriculture seeks to actualise the vast untapped growth potential of Indian agriculture, strengthen rural infrastructure to support faster agricultural development, promote value addition, accelerate the growth of agro business, create employment in rural areas, secure a fair standard of living for the farmers and agricultural workers and their families, discourage migration to urban areas and face the challenges arising out of economic liberalization and globalization Provides approach for sustainable agriculture, food and nutritional security, generation and transfer of technology; inputs management	Project comprises many of the features enunciated in the policy

Novembe	r 2018

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
	and incentives for agriculture, Generation and Transfer of Technology, management reforms, institutional structure	
Biological Diversity Act, 2002	The Act provides a comprehensive legal framework for conservation and sustainable use of bio-resources, reflects a strict regime for access, control and benefit sharing. It restricts access and use of biological resources by outsiders and creates decentralized institutional structures (State Biodiversity Boards -SBB and GP level Biodiversity Management Committees) for conservation of biological diversity.	 Restrictive provisions of the Act hamper access and use by community, though it excludes local communities, growers /cultivators & practitioners of indigenous medicine. Absence of functional BMCs to oversee conservation of bio-resources. Lack of capacities among BMCs (where present) to understand their roles and meaningfully perform them. Lack of effective powers with BMCs to regulate bioresource harvest or charge fee, despite the mandate provided by the Act. Absence of clear and transparent benefit sharing mechanism that reduce incentive for local community/BMCs to undertake <i>in-situ</i> conservation. Poor implementation of provisions related to granting joint ownership of IPR to the BMC or local community. No clarity on the status of Bio- heritage Sites created by the Act or role of community in their management. Issue of displacement of people affected by notification of bio-heritage sites. Poor documentation (PBR), leading to loss of ecological knowledge about MAPs present in the region.

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
		• No institutionalized role for women in BMCs or in resource conservation, even though they play a key role in use/ collection and selection/ conservation of local biodiversity for meeting the household level nutritional needs.
Right to Information Act, 2005	Provides a practical regime of right to information for citizens to secure access to information under the control of Public Authorities. The act sets out □ obligations of public authorities with respect to provision of information; requires designating of a Public Information Officer; process for any citizen to obtain information/disposal of request, etc. provides for institutions such as Central Information Commission/State Information Commission	All documents pertaining to the project would be disclosed to public.
Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006	This is an act to recognize and vest the forest rights and occupation in forest land in forest dwelling scheduled tribes and other traditional forest dwellers who have been residing in such forests for generations but whose rights could not be recorded; to provide for a framework for recording the forest rights so vested and the nature of evidence required for such recognition and vesting in respect of forest land. The Act provides for use, access and ownership to forest resources, biodiversity and provision for benefit sharing for ST and other forest dwelling communities. It provides individual & community rights of ownership, access to collect, use, and dispose of NTFPs; to protect, conserve and develop any forest resource which the community has traditionally/ seasonally protected/ used; to protect and access their cultural and natural heritage sites and habitats, water bodies, pastures. It also	 Poor enforcement of provisions like the need for complete ownership, participation and concurrence of local communities (Gram Sabha) in forest management, species selection for NTFP/ pasture development and bio-diversity conservation. Need to document all customary rights, dependent forest resources for upholding the existing arrangements while preparing plans. Conflicts between community and state related to collection and disposal of NTFPs (Section 3(1) (c)). Operational challenges for GS in using provisions of the Act to work on NTFP value addition and processing (transit rules).

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
	provides for occupation of forest land for cultivation and/ or habitation, including in the PAs.	 Risk of displacement of right-holders from lands notified as (inviolate) critical wildlife/ tiger habitats within Parks and Sanctuaries, leading to loss of livelihoods for affected families/ communities. Conflicts among different communities due to diffused boundaries where customary rights are accessed.
National Environment Policy 2006	It brings related legislations under an overarching frame and advocates decentralised governance by seeking transfer of power to State/ local authorities; participation of local bodies in management of sensitive zones.	 Absence of conducive policies and unilaterally imposed regulatory practices reduce people's incentives for afforestation. Threat of loss of natural heritage sites, biodiversity hotspots, sacred groves and landscapes that are repositories of significant genetic and eco-system diversity as a result of low community ownership.
Himachal Pradesh State Medicinal Plant Sector Policy 2006	The Policy aims at long-term development of the sector for meeting requirements of rural and tribal populations. Its objective is to conserve and augment the State's medicinal plant resource in its natural habitat through adaptive, sustainable and participatory management, encourage organic cultivation of commercially important species, regulate pricing of wild harvest, encourage PPCP models for cultivation, value addition and processing of MAPs, involvement of stakeholders in management (conservation, cultivation, sustainable use, value addition and trade) of medicinal plant resources	 Erosion of community's role in the management of resource related to medicinal and aromatic plants (MAPs). Lack of enabling environment has led to severe depletion of medicinal plant resource base, impacting sustenance of forest dependent communities. Unscrupulous/ unscientific exploitation of MAPs, loss of traditional knowledge and harvesting practices, threatens the supplementary incomes it provides to the economically vulnerable, especially women, during lean season and in distress. Absence of clarity on benefit sharing mechanism with community, leading to low community involvement in

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
		 the <i>in-situ</i> conservation, cultivation, value addition and marketing of MAPs. Low involvement of PRIs in ensuring sustainable harvest or for creating regulatory mechanism, due to lack of clarity about related roles and functions. State management of forest resource has weakened community property rights leaving little incentive for them to engage in sustainable harvest.
National Policy for farmers, 2007	Sets goals such as to: (i) improve economic viability of farming by substantially increasing the net income of farmers and to ensure that agricultural progress is measured by advances made in this income. (i) To protect and improve land, water, bio-diversity and genetic resources essential for sustained increase in the productivity, profitability and stability of major farming systems by creating an economic stake in conservation. (iii) To develop support services including provision for seeds, irrigation, power, machinery and implements, fertilizers and credit at affordable prices in adequate quantity for farmers, etc. (ii) defines farmers that include tribal families / persons engaged in shifting cultivation and in the collection, use and sale of minor and non-timber forest produce \square prescribes assets reforms required to empower farmers such as land, water, livestock, \square provides for support services including credit, climate change, agricultural practices, etc.	Project comprises many of the features enunciated in the policy
Right to Fair Compensation and	It makes prior consent of landowners a pre-requisite & calls for detailed Social Impact Assessment; restricts acquisition in Scheduled	Absence of formalized mechanism for holding consultations with affected families, regarding the

Relevant Acts and Policies of GoI	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
and GoHP		
Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013	Areas without prior Gram Sabha consent. Alternate fuel, fodder to be developed to meet the needs of resettled communities.	 nature and scale of resettlement (and the region to be notified) for creating Critical Wildlife Habitats. Resettlement of affected families deprives them of forest and other natural resources on which they traditionally depended for livelihoods and food security.
Himachal Pradesh Lease Rules, 2013	Provides for leasing of land and to be granted only in the interests of the development of State, The land may be granted on lease for purposes and to persons as provided under these rules with the sanction of the competent authority, out of land vested with the State Government under Section 3 (HP Village Common Lands Vesting and Utilization Act) or the land vested under section 11 (HP Ceiling on Land Holdings Act, 1972 (Act No.19 of 1973), in the interest of the development of the State. The land vested with the Government under the Acts, which is encroached, shall not be leased out to the encroacher. The lease may be granted only in the interests of the development of State, if the State Government is satisfied that there are sufficient reasons to do so. The development of State shall include amongst others: location of the specific infrastructure projects, any other common purpose in the interest of the development of the State and shall include the traditional cultural activities of the State of Himachal Pradesh. In Scheduled areas the lease application to the concerned Gram Sabhas for consultation and would be processed further only after obtaining the Gram Sabha's resolution in this regard.	During implementation, some of the project interventions may require to lease land.

Relevant Acts and	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
Policies of GoI		
and GoHP		
State Policy on Payment of Eco- system Services in Himachal Pradesh, 2013	The policy aims to protect and manage natural resources for sustained production of ecosystem services, address impacts of climate change on such services, generate economic incentives for communities conserving natural ecosystems; community driven ecosystem services shall have priority for receiving incentive, which will be determined through a participatory process involving ES generator and user while securing resource rights of community.	 Incentive flow to the community is restricted unless they have larger stake/ participation in forest governance and development of resources. Prerogative with forest department for determining interventions within the forest for providing enhanced services. Lack of community role in determining the price to be charged for the eco-system services and the benefit/ incentive sharing mechanism. Difficulty in pricing complex services, like protection & conservation of corridors between wildlife habitats/ sensitive ecological zones or indirect services. Lack of institutional mechanism to negotiate incentives on behalf of community. Absence of clarity on the mechanism for incentive sharing among different communities contributing to provide a single service.
Himachal Pradesh Ecotourism Policy 2016/17	The policy aims to protect states flora-fauna, while enhancing local livelihoods and generating resources through promotion of ecotourism. Eco-tourism is considered a sustainable approach for responsible conservation of fragile mountain eco-systems.	 Inadequate representation of PRIs and other community institutions in the Divisional Eco-tourism societies. Lack of clarity on benefit sharing between Eco-tourism societies and CBOs/ PRIs/ SHGs/ Youth Clubs/ JFMCs/ FDCs engaged in promoting or implementing projects. Absence of clarity on the overall role to be performed by PRIs under the policy, including role in determining sites or circuits and management of assets.

Relevant Acts and Policies of GoI and GoHP	Mandate of the Act/ Policy	Social Issues/ Impacts on Project Interventions
State Grazing Policy	This policy talks of a balanced and complimentary land use. This policy states that continuous grazing is destructive and cheap forest grazing has a demoralizing effect and grazing fee should regulate and control both quality of grazing and cattle.	As there is an increasing demand for fodder, there is a need to take into account the animal population and strike a balance between grazing requirements and conservation needs of the forests.
Himachal Pradesh Public Services Guarantee Act 2011	The Act provides legally enforced right to select services related to-Grazing Permits, Compensation for injuries or loss of life of domestic animals and humans and Grant of Timber Distribution rights to the right-holders within a stipulated timeframe based on applications received from the citizens.	 Designates officers and timeframes for issuing permits and for making requests for compensation. These have to go through Gram Sabha; the gram sabha needs to be transparent and should make equitable and inclusive decisions. Low awareness about these provisions among pastoral and forest dependent communities restricts its effective use.
Himachal Pradesh Forest (Timber Distribution to the Right Holders) Amendment Rules, 2016	These rules specify procedures to grant rights for timber to right holders. No green trees are allotted to the applicants and only felled and dry or salvaged trees are allowed to be used for timber distribution. Timber distribution period for house construction and repair has gradually been increased from 10 to 20 years.	This is a long procedure and needs to be approved and recommended by a resolution of the Gram Panchayat.
Himachal Pradesh Forest Produce Transit (Land Routes) Rules, 2014	These rules sets the fee for issuing transit passes for NTFP. This rules apply to forest produce as well as species of NTFP listed on the schedule that are cultivated on private lands.	 Creates complex procedures for movement of forest produce including NTFPs in the form of transit permits These TP rules do not apply any minimum threshold for exempting from permit.

Government of Himachal Pradesh Himachal Pradesh Forests for Prosperity Project (The World Bank assisted) Social Assessment and Management Framework – Final Report

Social Assessment and Management Framework – Final Report November 20		November 201	8
Relevant Acts and Policies of GoI	Mandate of the Act/ Policy		Social Issues/ Impacts on Project Interventions
and GoHP			
			• Cultivation from private lands also needs to be certified and royalty paid, at the same rate as those for produce collected from the forest.
			• Onus of proving/ establishing source of produce (forest or private land) is on the seller, creating

disincentive for ex situ cultivation by private growers

It can be summed up that the while some legal provisions safeguard the forests from over exploitation and advocates strict conservation and protection (FCA-1980, WPA-1972), there are other instruments that recognize the customary rights of over forest resources meet, their role in conservation and development (PESA-1996, FRA-2006) while some provisions try to strike a balance between the two by suggesting judicious use of forest resources and brining in community as the co- owners of forest along with the forest department (NFP-1988, JFM-1993, PFM- 2000 and BDA-2002).

In the absence of a clear alignment/harmonization of forest polices at the national level to establish the exact role of communities in conservation, protection as well as development of forest resources, the legal environment with respect to communities' rights and entitlement over forests remains nebulous.

3.3 Status of Tribal Communities in HP

Out of total 55673 square kilometer geographical area of HP about 23,655 square kilometer area falls in Scheduled V, which constitutes 42.49 percent of the total area of the state. The total population living in the Scheduled Area is 173,661 of which 123,585 are tribals which constitute nearly 71.16 percent of the total population living in this area. Out of total ST population in the state 68.51 percent resides outside the Scheduled Areas while the rest is dispersed in other districts and regions of the state.2

As per the Socio Economic Caste Census of 2011, tribals of HP are better off among Scheduled Tribe (ST) households in the rural areas of India. Nearly 21.37 percent ST rural households have an income of more than Rs 10,000 per month and as many as 42.76 percent tribal households own irrigated agricultural land. Among salaried government jobs too, HP tribals are ahead of other states with 23.72 percent such households with at least one member in a government job.

However, this does not represent the complete picture of the scheduled tribes in Himachal. The state's tribal areas have a lower literacy rate at 73.64 percent against the state average of 82.80 percent.³ Owing to their present in the remote and geographically challenging areas (Lahaul, Spiti, Kinnaur and Chamba districts) their access to health services is low, which reflects in the poor health infrastructure in tribal areas as well as low health attainments. The average landholding size in tribal areas is around 1.16 hectares but over the years the cropping intensity of these farms has fallen from 136 to 124 percent due to water scarcity and low availability of irrigation facilities.

The remoteness of tribal habitations, while creating barriers in mobility, also pose challenges in the provisioning of basic public services like - primary and secondary health services, school and higher education, banking services- apart from low access to established markets.

² Source: Directory of Villages with ST concentration, Tribal Development Department, GoHP

³ Annual Tribal Sub-Plan 2017-18, GoHP

3.4 Provision of Scheduled Areas under 5th Schedule of the Constitution

3.4.1 Scheduled Areas:

The tribals live in contiguous areas unlike other communities. It is, therefore, much simpler to have area approach for development activities and also regulatory provisions to protect their interests. In order to protect the interests of the Scheduled tribes with regard to land alienation and other social factors, provision of "Fifth Schedule" and "Sixth Schedule" have been enshrined in the Constitution. The Fifth Schedule under article 244 (2) of the Constitution defines "Scheduled Areas" as such areas as the President may by Order declare to be Scheduled Areas after consultation with the governor of that State.

3.4.2 Fifth Schedule Areas

The criteria for declaring any area as a "Scheduled Area "under the Fifth Schedule are:

- Preponderance of tribal population,
- Compactness and reasonable size of the area,
- Available administrative entity such as district, block or taluk, and
- Economic backwardness of the area as compared to neighboring areas.

The specification of "Scheduled Areas" in relation to a state is by notified Order of the President, after consultation with State Government concerned. The same applies for altering, increasing, decreasing, incorporating new areas, or rescinding any Orders relating to "Scheduled Areas".

3.4.3 Purpose and Advantage of Scheduled Areas:

Scheduled Areas have certain distinct provisions meant to protect and benefit tribal people in a State:

- a. The Governor of a State which has Scheduled Areas is empowered to make regulations in respect of (1) Prohibit or restrict transfer of land from tribals; (2) Regulate the business of money lending to the members of Scheduled tribes. In making any such regulation, the Governor may repeal or amend any Act of Parliament or of the Legislature of the State, which is applicable to the area in question.
- b. The Governor may by public notification direct that any particular Act of Parliament or of the Legislature of the State shall not apply to a Scheduled Area or any part thereof in the State or shall apply to such area subject to such expectations and modifications as he may specify.
- c. The Governor of a State having Scheduled Areas therein, shall annually, or whenever so required by the President of India, make a report to the President regarding the administration of the Scheduled Areas in that State and the

executive power of the Union shall extend to the giving of directions to the State as to the administration of the said area.

- d. Tribes Advisory Council [TAC] shall be established in States having Scheduled Areas. The TAC may also be established in any State having Scheduled Tribes but not Scheduled Areas on the direction of the President of India. The TAC consists of more than twenty members of whom, as nearly as may be, three fourth are from the representatives of Scheduled Tribes in the Legislative Assembly of the State. The role of TAC is to advise the State Government on matters pertaining to the welfare and advancement of the Scheduled Tribes in the State as may be referred to it by the Governor.
- e. The Panchayaths (Extension to Scheduled Areas), Act 1996, which the provisions of Panchayaths, contained in Part IX of the Constitution, were extended to Schedule Areas, also contains special provisions for the benefit of Scheduled Tribes.

3.4.4 Modified Area Development Approach (MADA), Pockets and clusters

From the 5th Five year plan onwards, tribal development gathered momentum with the introduction of a Tribal Sub-Plan (TSP) approach. Since the 8th Five Year Plan (1992-97), the concept of TSP has been modified by extending the coverage to the entire ST population outside the scheduled areas, but those who live in contiguous areas. Three criteria are laid down for identification of tribal pockets under MADA approach. These include (i) a minimum population of 10,000 (ii) 50% of ST population in the pockets (iii) contiguity of villages in the pockets. The Working Group on development of STs during Seventh Five Year Plan (1985-90), suggested relaxation of present norm of population of 10000 to 5000 with 50% ST population.

3.5 ITDPs and MADA Clusters in HP

The Kinnaur and Lahaul-Spiti districts, in their entirety, and Pangi and Bharmour (now tehsil Bharmour and sub-tehsil Holi) Sub-Divisions of Chamba district constitute the Scheduled Areas in the State, fulfilling the minimum criterion of 50% S.T. population concentration in a C.D. Block. These are situated in the north and north-east of the state forming a contiguous belt in the far hinterland behind high mountain passes with average altitude being 3281 metre above the mean sea-level. The most distinguishing mark of the tribal areas in the State is that they are very vast in area but extremely small in population with the result that per unit cost of infrastructure activity is very exorbitant. Snow glaciers, high altitudes and highly rugged terrain, criss-crossed by fast flowing rivers and their tributaries are the peculiar features of the Tribal Areas.

These areas have also been declared as Schedule Area under the Fifth Schedule of the Constitution by the President of India as per the Schedule Area (Himachal Pradesh) Order, 1975 (CO 102) dated the 21st November, 1975. The five ITDPs are Kinnaur, Lahaul, Spiti, Pangi and Bharmour. Except Kinnaur which is spread over 3 CD Blocks, rest of the ITDPs comprise one CD Block each.

3.5.1 Pockets of Tribal Concentration

Tribal development envisaged a two-pronged strategy to cover both the concentrated and dispersed tribals. The areas of tribal concentration with 50% or above tribal population were taken up in the first instance during Fifth Plan 1974-78. For the dispersed tribals, Modified Area Development Approach (MADA) was devised during the Sixth Plan to cover such pockets of tribal concentration which had a population threshold of 10,000 in contiguous areas of whom 50% or more were tribals. A target-group or community approach marked the pockets of tribal concentration in contradiction to area of tribal concentration where area approach ruled the roost. In Himachal Pradesh, two such pockets Chamba and Bhatiyat Blocks were identified in Chamba district covering an area of 881.47 Sq.Km. and population of 29455 (7.51%) of Scheduled Tribes as per 2011 census. Coupled with tribal areas, 100% of ST population was covered under Sub-Plan treatment.

3.5.2 Dispersed Tribes in Non-Scheduled Areas

The ultimate objective of sub-plan strategy being 100% coverage of ST population under its treatment, the Union Welfare Ministry now Tribal Affairs Ministry came out with the SCA supplementation for such dispersed tribes in 1986-87 but because of late receipt of guidelines, the actual adoption was deferred to 1987-88 and in this way, 100% ST population in the State came under sub-plan ambit. In view of larger dispersed ST population in the State, Union Tribal Affairs Ministry needs to consider larger allocation under Special Central Assistance than hither to fore for such tribes in commensurate with their population living in the non-tribal areas.

3.6 World Bank Operational Policies

World Bank Operational Policies and their Applicability

Table 20: World Bank Operational Policies and their Applicability

Social Safeguard	Applicabili	Description
Policies	ty	Description
Physical Cultural Resources OP/BP 4.11	TBD	The policy may be triggered as a preventative measure in the event of potential impacts on the known and currently unknown physical cultural resources (PCR) of the area. The state has many important pilgrimage centers with prominent temples and sites protected by the Archeological Survey of India. The state also contains a number of unprotected sites, sacred groves and community conserved areas (Deo Bhumi) which have cultural and religious significance. The EMF would inventories all significant PCRs within the project area, and if applicable, specify the measures for screening, avoiding and managing impacts on known PCRs as well as chance-find procedures in the event new resources are discovered in the course of project implementation.
Indigenous Peoples OP/BP 4.10	Yes	The Indigenous Peoples' policy is triggered. Most of the Schedule Tribe are Kinnauaras, Lahuale, Gaddis and the Gujjars and are highly dependent on the natural resources for sustenance. The total Schedule Tribe population is approximately 5% of the total population of Himachal Pradesh. The tribals constitute more than 50% of the population of Kinnaur and Lahaul-Spiti districts, Pangi and Bharmour in Chamba district and are governed by the provisions of Schedule V of the Indian Constitution. In addition, the nomadic transhumance move along designated routes from Shivalik range (foothills of Himalayas) to the upper reaches in summers and to the foothills in the winters, for centuries along established routes for pasture. The forests and highlands of the state are home to several communities and social groupings have lived in relative geographical isolation for the sake of protecting their cultural and social fabric. As a result, these landscapes have significant cultural, historical as well as religious importance of these communities. The program will support pasture development, increase of Non-Timber Forest Produce (NTFP), eco-tourism to promote economic opportunities that will have a positive impact on the Scheduled Tribe and trans-human nomads. However, there may be access to pasture land, traditional routes, etc. may be closed for enhancing the resource base that may have limited adverse impact. Social Assessment in consultation with the trans-nomads and Scheduled Tribe will be undertaken to ensure compliance with Free Prior Informed Consultation (FPIC) to prepare the Social Management Framework and Indigenous People Development Plan. Moreover, to ensure compliance with Pancahayat Raj (Extension to Scheduled Areas), Act, specific consultations will be held in Scheduled V areas.
Involuntary Resettlement OP/BP 4.12	Yes	The project is not expected to support civil works and may not entail land acquisition or land donation, though it is expected to

Government of Himachal Pradesh Himachal Pradesh Forests for Prosperity Project (The World Bank assisted) Social Assessment and Management Framework – Final Report

Social Safeguard Policies	Applicabili ty	Description
		impact livelihoods due to restrictions in access to certain forest sites and pastures as part of conservation measures. Detailed assessment will be carried out to identify impact on people that may arise due to restriction imposed on use and access to forest resources, for conservation and treatment.

4. Impact Assessment - Surveys and Consultations

4.1 Sampling Details - Household Surveys

The details of the sample chosen for survey, the villages, number of households and percentage of male and female respondents are given below:

Table 21: Sample Details – HH surveys

DISTRICT	VILLAGE	HH SURVEYED		M	F
	Bara Kamba	34		85%	15%
	Chhota Kamba	48		69%	31%
KINNAUR	Kafnu	22		68%	32%
	Kalpa	47		77%	23%
	Rogi	71		56%	44%
KIIIII	Kandaghai	28		96%	4%
KULLU	Togi Dalash	42		55%	45%
MANDI	Shankar Dehra	48		81%	19%
SHIMLA	Mandhor Ghat	50		68%	32%
COLAN	Manlog Badog	47		60%	40%
SOLAN	Khali	65		45%	55%
Gr	and Total	502		502	34%

4.2 Profile of HH Surveyed

4.2.1 General Profile

502 Households were surveyed, structured interview schedule was administered to the respondents from each household to capture the individual household level information on their socio-economic status, economic activities, asset holdings, dependence on forests, their expectations from Forest Department as well as the project and difficulties they have to face in terms of conflicts with the other communities relating to forest rights and options available to them for complaint registration.

Table 22: HH Surveyed

		HH Surveyed						% of Total				
District	Name	HH SURVEYED	Gener al	S C	ST	WH H	HH Surveye d	Gener al	sc	ST	WH H	
	BARA KAMBA	34	7	6	21	2	7%	21%	18%	62%	6%	

	СННОТА КАМВА	48	-	1 6	32	7	10%	-	33%	67%	15%
KININIAII	KAFNU	22	-	7	15	-	4%	-	32%	68%	-
R KINNAU	KALPA	47	4	1 1	32	8	9%	9%	23%	68%	17%
	ROGI	71	6	2 1	44	15	14%	8%	30%	62%	21%
KIIIII	KANDAGHAI	28	28		-	1	6%	100%	-	-	4%
KULLU	TOGI	42	40	2	-	11	8%	95%	5%	-	26%
MANAL I	SHANKAR DEHRA	48	44	4	-	-	10%	92%	8%	-	-
SHIMLA	MANDOR GHAT	50	37	1 3	-	7	10%	74%	26%	-	14%
	KHALI	47	44	3	-	5	9%	94%	6%	-	11%
SOLAN	MANLOG BADOG	65	65	-	-	7	13%	100%	-	-	11%
Gr	and Total	502	275	8	14 4	63	100%	55%	17%	28%	13%

A total of 502 HH were surveyed as shown in the Table 22 above out of around 55% HH were of the people from General Category 17% from SC and 28% from ST category. Among 502 households, 13% were women Headed Households.

Table 23: Distribution of Households Based on Vulnerability

DISTRICT	VILLAGE	BPL	SC	ST	WHH	PH	GEN	Total	Vulnerable %
KINNAUR	BARA KAMBA	1	5	21	1	-	6	34	82%
KiititAON	СННОТА КАМВА	-	16	32	-	-	-	48	100%
	KAFNU	-	7	15	-	-	-	22	100%
	KALPA	1	8	28	7	-	3	47	94%
	ROGI	-	17	34	15	-	5	71	93%
KULLU	KANDAGHAI	2	1	1	1	ı	26	28	7%
	TOGI	9	2	1	5	ı	26	42	38%
MANDI	SHANKAR DEHRA	7	4	-	-	-	37	48	23%
SHIMLA	MANDOR GHAT	4	12	-	1	-	33	50	34%
SOLAN	KHALI	10	2	-	5	-	30	47	36%
MANLOG BADOG		20	-	1	6	1	38	65	42%
Gı	and Total	54	73	130	40	1	204	502	59%

4.2.2 HH Structure

Average Family size of the HH was 4 for the study sample and is quite comparable to the average HH size in the census as evident from the Table 24 overleaf. Sex Ratio was found to be highest in Togi and Mandor Ghat villages of Kullu and Shimla districts with 1222 and 1185 females per 1000 male members respectively. Sex ratio of the surveyed sample HH in Kafnu village was found to be lowest at 649 followed by Khali village in Solan at 865.

Table 24: HH Size and Sex Ratio

					Grand	Sı	ırvey	Ce	ensus
DISTRICT	VILLAGE	Ħ	F	M	Total	HH Size	Sex- Ratio	HH Size	Sex- Ratio
	BARA KAMBA	34	60	63	123	4	952	4	1029
	СННОТА КАМВА	48	109	92	201	4	1185	4	1056
KINNAUR	KAFNU	22	24	37	61	3	649	4	995
	KALPA	47	74	85	159	3	871	4	953
	ROGI	71	138	123	261	4	1122	4	852
1 /111111	KANDAGHAI	28	70	72	142	5	972	5	940
KULLU	TOGI	42	99	81	180	4	1222	4	1181
MANDI	SHANKAR DEHRA	48	84	95	179	4	884	5	985
SHIMLA	MANDOR GHAT	50	96	81	177	4	1185	5	1107
	KHALI	47	109	126	235	5	865	5	1136
SOLAN	MANLOG BADOG	65	131	149	280	4	879	4	765
Grand Tota	I	502	994	1004	1998	4	990	5	969

4.2.3 Social Category

Out of a total of 1998 family members for which the information was collected through primary social assessment surveys 58% belonged to the General Category while 16% of the members were from SC category and 26% belonged to ST category as evident from the Table 225. SC and ST households are predominantly found in Kinnaur district.

Table 25: Distribution of Family Members based on Social Category

District	Name	Ge	neral Cat	egory		SC			ST	
District	Name	Total	Males	Females	Total	Males	Females	Total	Males	Females
	Bara Kamba	23	11	12	15	8	7	85	44	41
	Chhota Kamba	-	-	ı	63	29	34	138	63	75
KINNAUR	Kafnu	-	-	1	23	13	10	38	24	14
	Kalpa	14	9	5	35	20	15	110	56	54
	Rogi	22	13	9	87	42	45	152	68	84
KULLU	Kandaghai	142	72	70	-	-	-	-	-	-
KULLU	Togi Dalash	173	78	95	7	3	4	-	-	-
MANDI	Shankar Dehra	163	84	79	16	11	5	-	-	-
SHIMLA	Mandhor Ghat	124	56	68	53	25	28	-	-	-
COLAN	Manlog Badog	221	119	102	14	7	7	-	-	-
SOLAN	Khali	280	149	131	-	-	-	-	-	-
Gra	nd Total	1162	591	571	313	158	155	523	255	268
%	of Total	58%	51%	49%	16%	50%	50%	26%	49%	51%

4.2.4 Economic Category

Out of the total 502 Households surveyed 25% of them belonged to BPL category. The BPL category HH was identified based on the village list and Ration card copy of the HH.

Table 26: Distribution of HH

District	Village	APL	BPL	Total
	Bara Kamba	29	5	34
	Chhota Kamba	37	11	48
KINNAUR	Kafnu	20	2	22
	Kalpa	37	10	47
	Rogi	37	34	71
1211111	Kandaghai	26	2	28
KULLU	Togi Dalash	31	11	42
MANDI	Shankar Dehra	39	9	48
SHIMLA	Mandhor Ghat	43	7	50
COLAN	Manlog Badog	32	15	47
SOLAN	Khali	43	22	65
Grand	d Total	374	128	502

% of Total	75%	25%	100%
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4.2.5 Literacy

Literacy Levels of the population surveyed indicate that the average literacy of male population (83%) is higher than female literacy levels (75%). However, in Bara Kamba and Khali villages the literacy rates of female population was found to be higher than the male population amongst surveyed households at 87% and 89% as compared to male literacy of 84% and 87% respectively. Highest literacy was recorded in Khali village of Solan at 88%.

Table 27: Literacy Rates of the Study Sample

District	Nama	Sur	vey Populati	on	Li	teracy Leve	I %
District	Name	Males	Females	Total	Males	Females	Total
	Bara Kamba	53	52	105	84%	87%	85%
KINNAUR	Chhota Kamba	74	80	154	80%	73%	77%
	Kafnu	31	16	47	84%	67%	77%
	Kalpa	78	52	130	92%	70%	82%
	Rogi	105	89	194	85%	64%	74%
Z11111	Kandaghai	57	55	112	79%	79%	79%
KULLU	Togi Dalash	73	70	143	90%	71%	79%
MANDI	Shankar Dehra	76	60	136	80%	71%	76%
SHIMLA	Mandhor Ghat	61	73	134	75%	76%	76%
COLAN	Manlog Badog	100	84	184	79%	77%	78%
SULAN	SOLAN Khali		117	246	87%	89%	88%
Gra	ind Total	837	748	1585	83%	75%	79%

The table below indicates that though the 79% of population of the sample households is literate only 9% of people have completed graduation or above. 37% of the population have completed their Secondary education and 22% of them have completed the senior secondary school.

Table 28: Level of Education

DISTRICT	VILLAGE	ILLITRATE	닉	PRIMARY	MIDDLE	SECONDARY	S. SEC.	GRADUATION	PG	Grand Total
	BARA KAMBA	15%	24%	19%	11%	15%	11%	2%	3%	123
KINNAUR	СННОТА КАМВА	38%	34%	33%	16%	15%	14%	11%	2%	201
_	KAFNU	11%	7%	11%	2%	8%	5%	4%	2%	61
	KALPA	24%	21%	24%	14%	17%	20%	8%	1%	159

DISTRICT	VILLAGE	ILLITRATE	JL	PRIMARY	MIDDLE	SECONDARY	S. SEC.	GRADUATION	PG	Grand Total
	ROGI	54%	41%	52%	12%	28%	21%	2%	1%	261
V	KANDAGHAI	24%	10%	10%	7%	17%	24%	10%	13%	142
KULLU	TOGI	30%	20%	14%	7%	22%	32%	9%	13%	180
MANDI	SHANKAR DEHRA	35%	33%	17%	18%	21%	10%	8%	3%	179
SHIMLA	MANDOR GHAT	35%	24%	28%	8%	9%	24%	11%	4%	177
SOLAN	KHALI	41%	11%	33%	22%	37%	31%	11%	6%	235
SOLAIN	MANLOG BADOG	28%	28%	37%	29%	51%	26%	22%	7%	280
Gi	rand Total	413	312	341	181	296	269	120	66	1998
	%	21%	16%	17%	9%	15%	13%	6%	3%	100%

4.2.6 Workforce

The detailed analysis of primary data collected during sample surveys indicate that the total worker population among study sample is 54% with 75% of males and 33% of females forming the workforce. The remaining 46% population is either old / retired or still undergoing studies or belong to the "non-school going age group".

Table 29: Worker Population

		То	tal Populati	on	Т	otal Worke	rs
District	Name	Males	Females	Total	Males	Females	Total
	Bara Kamba	63	60	123	56%	22%	39%
	Chhota Kamba	92	109	201	65%	22%	42%
KINNAUR	Kafnu	37	24	61	81%	33%	62%
	Kalpa	85	74	159	79%	51%	66%
	Rogi	123	138	261	85%	34%	58%
KULLU	Kandaghai	72	70	142	88%	13%	51%
KULLU	Togi Dalash	81	99	180	83%	42%	61%
MANDI	Shankar Dehra	95	84	179	74%	50%	63%
SHIMLA	Mandhor Ghat	81	96	177	59%	25%	41%
COLAN	Manlog Badog	126	109	235	79%	38%	60%
SOLAN	Khali	149	131	280	74%	29%	53%
G	Grand Total	1004	994	1998	75%	33%	54%

4.3 Asset Holding

4.3.1 Land Ownership

Most of the villagers interviewed during the study were marginal farmers with land holdings of 2-5 bigha (1 bigha = 809 m²) approximately 0.3-0.4 ha and grew crops like wheat, maize, barley. Villagers in Kinnaur, Kullu and Mandi had planted Apple and walnut trees which form their main source of income. Only 9% of the total HH surveyed had a land holding of more than 1 ha i.e. they belonged to small farmer category. 9% of the total HH surveyed belonged to Landless category while around 82% of the households belonged to marginal farmer category.

Table 30: Number of Land Holdings based on size

					LAND	OWNER	SHIP DE	TAILS	
District	Subdistt	Name	HH SURVEYED	Landles s	0-1 ha	1-2 ha	2-4 ha	4-10 ha	>10 ha
	NICHAR	Bara Kamba	34	1	30	-	3	-	-
KINNAU	NICHAR	Chhota Kamba	48	-	45	-	3	-	-
R	NICHAR	Kafnu	22	9	13	-	-	-	-
	KALPA	Kalpa	47	10	34	1	2	-	-
	KALPA Rogi		71	9	54	6	1	1	-
Z111111	ANNI	Kandaghai	28	-	21	3	4	-	-
KULLU	KULLU	Togi Dalash	42	6	30	6		-	-
MANDI	KARSOG	Shankar Dehra	48	4	43	1		-	-
SHIMLA	BASANTPU R	Mandhor Ghat	50	7	41	1	1	-	-
SOLAN	KUNNIHAR	Manlog Badog	47	-	43	3	1	-	-
	KUNNIHAR	Khali	65	-	57	6	2	-	-
	Grand Total		502	46	411	27	17	1	-
	% of Total		100%	9%	82%	5%	3%	-	-

4.3.2 Landholding

Average household landholding was found to be 0.5 ha (6.2 bigha).

Table 31: Average Landholding per Household (ha)

DISTRICT	VILLAGE	GEN	SC	ST	Grand Total
KINNAUR	BARA KAMBA	0.30	0.38	0.66	0.53

	СННОТА КАМВА	-	0.71	0.41	0.51
	KAFNU	-	0.08	0.32	0.24
	KALPA	0.47	0.54	0.46	0.48
	ROGI	0.53	0.36	0.59	0.52
KULLU	KANDAGHAI	0.99	-	1	0.99
KULLU	TOGI	0.36	0.44	-	0.37
MANDI	SHANKAR DEHRA	0.29	0.26	1	0.29
SHIMLA	MANDALGHAT	0.53	0.37	-	0.49
SOLAN	KHALI	0.60	0.67	-	0.60
	MANLOG BADOG	0.54	-	-	0.54
Grand	l Total	0.52	0.44	0.50	0.50

4.3.3 Livestock holding

36% of the total households did not have any livestock holding. 64% of the remaining households had an average of 2 livestock animals per household. Milch animals particularly cows is the most favored animal among the sampled households. Every 2 households reared 3 cows on an average.

Table 32: Livestock Holding of HH

DISTRICT	VILLAGE	Sł	пеер	G	oats	C	ows	Buffa	loes	Total	
DISTRICT	VILLAGE	Ħ	Count	Ħ	Count	Ħ	Count	НН	Count	НН	Count
	BARA KAMBA	-	-	1	10	17	20	-	-	17	30
	СННОТА КАМВА	7	65	4	22	31	43	-	-	33	130
KINNAUR	KAFNU	-	-	2	6	1	1	2	2	5	9
	KALPA	2	5	7	26	15	16	-	-	18	47
	ROGI	4	7	18	49	35	39	-	-	43	95
KULLU	KANDAGHAI	2	8	2	6	24	24	3	3	25	41
KULLU	TOGI	-	-	3	8	21	21	-	-	21	29
MANDI	SHANKAR DEHRA	4	11	4	19	32	71	-	-	33	101
SHIMLA	MANDOR GHAT	-	-	1	2	31	31	-	-	31	33
COLAN	KHALI	1	2	-	-	38	74	5	5	38	81
SOLAN	MANLOG BADOG	2	4	4	10	56	85	11	14	56	113
G	rand Total	22	102	46	158	301	425	21	24	320	709

On an average each HH rears around 5 sheep on average and similarly around 4 goats and every 2 families had 3 cows and 1 buffalo on an average.

4.3.4 Other Assets

78.1% of the total households surveyed owned Television. 98.5% of the HH surveyed in Manlog Badog village of Solan owned Television. Refrigerator was available with only 29.7% of the households surveyed. Car was available with 15.7% of total households surveyed, while bike was available with 8% of the households surveyed

Table 33: Other Asset Holdings of HH

DISTRICT	VILLAGE	TV	REFRIGERATOR	CAR	BIKE	OTHER	Total
KINNAUR	BARA KAMBA	44.1%	2.9%	5.9%	-	5.9%	34
	СННОТА КАМВА	60.4%	14.6%	6.3%	6.3%	-	48
	KAFNU	59.1%	45.5%	4.5%	4.5%	-	22
	KALPA	74.5%	23.4%	10.6%	2.1%	-	47
	ROGI	93.0%	7.0%	4.2%	1.4%	-	71
KULLU	KANDAGHAI	71.4%	32.1%	17.9%	25.0%	-	28
	TOGI	97.6%	78.6%	31.0%	7.1%	-	42
MANDI	SHANKAR DEHRA	60.4%	10.4%	10.4%	6.3%	-	48
SHIMLA	MANDOR GHAT	78.0%	2.0%	34.0%	8.0%	-	50
SOLAN	KHALI	87.2%	46.8%	19.1%	6.4%	2.1%	47
	MANLOG BADOG	98.5%	69.2%	24.6%	21.5%	3.1%	65
Grand Tota	al	392	149	79	40	5	502
		78.1%	29.7%	15.7%	8.0%	1.0%	100%

4.4 Housing

30% of the total households surveyed during the social assessment study had Kachcha houses made of wood, mud or stones 21% of the households had RCC/ concrete walls and thatched, tiled or sheets of tin, asbestos or wood. RCC structures (pucca) were 49% of the total household surveyed.

Table 34: Houses based on Construction Type

DISTRICT	VILLAGE	КАСНСНА	SEMI-PUCCA	PUCCA	Grand Total
	BARA KAMBA	82%	6%	12%	34
	СННОТА КАМВА	81%	10%	8%	48
KINNAUR	KAFNU	9%	32%	59%	22
	KALPA	19%	21%	60%	47

DISTRICT	VILLAGE	КАСНСНА	SEMI-PUCCA	PUCCA	Grand Total
	ROGI	10%	24%	66%	71
W. 11.11	KANDAGHAI	18%	14%	68%	28
KULLU	TOGI	7%	19%	74%	42
MANDI	SHANKAR DEHRA	69%	23%	8%	48
SHIMLA	MANDOR GHAT	22%	24%	54%	50
SOLAN	KHALI	11%	30%	60%	47
SULAIN	MANLOG BADOG	12%	23%	65%	65
Grand Total	•	30%	21%	49%	502

4.4.1 Ownership

96% of the households had their own houses. Only 4% of the respondents surveyed confirmed that they resided in rented accommodation. Most of the respondents preferred to stay in their own houses.

Table 35: District wise Ownership of house

DISTRICT	VILLAGE	OWNED	RENTED	Grand Total
	BARA KAMBA	100%	-	34
	СННОТА КАМВА	100%	-	48
KINNAUR	KAFNU	64%	36%	22
	KALPA	83%	17%	47
	ROGI	99%	1%	71
KULLU	KANDAGHAI	100%	-	28
KOLLO	TOGI	100%	-	42
MANDI	SHANKAR DEHRA	98%	2%	48
SHIMLA	MANDOR GHAT	96%	4%	50
SOLAN	KHALI	100%	-	47
SOLAN	MANLOG BADOG	100%	-	65
Grand Total		96%	4%	502

4.4.2 Roofing

4~% of the houses surveyed had thatched roof, while wooden roofed and roofs made of sheets of asbestos, metal was a popular choice among the owners of the houses of the selected sample. 11.4% of the houses had wood as the roof type while 40.6% of the houses had tiled roofs. RCC roofs were found in 42.4% of the houses visited during the surveys.

Table 36: Distribution of Houses based on Roof Type

DISTRICT	VILLAGE	THATCHED	WOOD	SHEETS	TILES	RCC	Grand Total
KINNAUR	BARA KAMBA	-	2.9%	85.3%	-	11.8%	34
	СННОТА КАМВА	41.7%	4.2%	45.8%	-	8.3%	48
	KAFNU	-	9.1%	36.4%	-	54.5%	22
	KALPA	-	10.6%	44.7%	-	44.7%	47
	ROGI	-	2.8%	28.2%	-	69.0%	71
KULLU	KANDAGHAI	-	3.6%	60.7%	7.1%	28.6%	28
	TOGI	-	19.0%	19.0%	14.3%	47.6%	42
MANDI	SHANKAR DEHRA	-	37.5%	56.3%	-	6.3%	48
SHIMLA	MANDOR GHAT	-	-	42.0%	-	58.0%	50
SOLAN	KHALI	-	4.3%	29.8%	-	66.0%	47
	MANLOG BADOG	-	24.6%	26.2%	-	49.2%	65
Gr	and Total	20	57	204	8	213	502
	%	4.0%	11.4%	40.6%	1.6%	42.4%	100%

4.5 Agricultural Production

Wheat, Maize, Peas, Potato, Rice, Barley, Pulses and Apple are the major cash crops grown in the study villages. Horticultural crops are grown for consumption within the household. Crop production is hampered in most of the villages as most of the villagers have to depend on rainfall for crop cultivation due to lack of source of irrigation except in Manlog Badog in Solan and Shankar Dera in Mandi where irrigation water was available through natural sources. Per capita production (kg/per person) of different crops is presented in table below. From the table below it is evident that the per capita production of different crops is highest in Manlog Badog and Shankar Dera villages. Most of the crop produce is used for household consumption while only the excess is sold in the local market or to the traders visiting the village.

Apple growers in Kinnaur, Mandi and Kullu often pack the apple produce in boxes of 20 – 22 kg each and sell it to the local traders or in the market at the prevalent rates which is normally Rs 40-45 per kg depending on the quality of produce. Often around 50 - 60 kg of apples is stored by the growers for household consumption in their houses as there is no storage facility available near the region.

Table 37: Per Capita Production of Crops (Kg/person)

DISTRICT	VILLAGE	APPLE	WHEAT	RICE	PULSES	РОТАТО	PEA	BARLEY	MAIZE
KINNAUR	BARA KAMBA	84	20	11	13	44	23	19	17
	СННОТА КАМВА	126	16	10	11	63	40	18	8
	KAFNU	800	-	-	8	6	6	-	-

DISTRICT	VILLAGE	APPLE	WHEAT	RICE	PULSES	РОТАТО	PEA	BARLEY	MAIZE
	KALPA	1002	-	-	11	7	12	-	17
	ROGI	862	-	-	11	25	30	60	-
KULLU	KANDAGHAI	286	-	-	-	-	10	-	-
	TOGI	106	-	-	-	-	-	4	4
MANDI	SHANKAR DEHRA	369	24	-	-	73	69	28	34
SHIMLA	MANDOR GHAT	-	16	-	-	-	-	-	19
SOLAN	KHALI	-	38	9	-	-	-	-	33
	MANLOG BADOG	-	108	75	33	13	-	-	18
Grand Tot	Grand Total		53	16	12	52	51	21	23

4.6 Dependence on Forests

Though the villages surveyed lie in the forest region, the table below shows the forest ranges near the villages. The villagers do not have the access to wildlife and protected forests of Rupi and Chandi wildlife ranges. Villagers in Anni, Chowai, Karsog, Kalpa and Darlaghat forest ranges confirmed that they are allowed to enter the forest without restrictions.

People in Darlaghat were of the view that since the invasion of Lantana in the forest area has destroyed their source of fuel wood and fodder they have stopped visiting the forests. Villagers also stated that the Forest Department had attempted to clean the forest and cut several trees to clear lantana but all their efforts were futile. With the spread of lantana their source of medicinal plants and NTFP is also destroyed hence they do not visit the forests at present.

Similarly respondents in villages adjoining Rupi Wildlife and Chandi Wildlife stated that they are not allowed to enter the forests by the department hence have to look for other venues for their household requirements of medicinal herbs, NTFPs, Fuel wood and fodder.

Table 38: Villages and Forest Ranges

DISTRICT	VILLAGE	RANGE
	BARA KAMBA	RUPI
	СННОТА КАМВА	RUPI
KINNAUR	KAFNU	RUPI
	KALPA	KALPA
	ROGI	KALPA

W	KANDAGHAI	CHOWAI		
KULLU	TOGI	CHOWAI		
MANDI	SHANKAR DEHRA	KARSOG		
SHIMLA	MANDOR GHAT	CHANDI		
COLAN	KHALI	CHANDI		
SOLAN	MANLOG BADOG	DARLAGHAT		

In Shankar Dera and other villages surveyed during assessment the respondents stated that they visit the forest pastures to collect fodder for their livestock and also the fuel wood.

4.6.1 Fodder Collection

60% of the households surveyed during the assessment study stated that they visited forests for collection of fodder for their livestock. However the frequency of visits often varied from village to village. 40% of the families would either purchase the fodder from the market or grow it in their on agricultural land for feeding their livestock. Respondents also maintained that they never had to pay any fees to the Forest Department for collection of fodder.

Table 39: Dependence on Forest for Fodder

DISTRICT	VILLAGE	RANGE	N	Υ	Grand Total	% N	% Y
	BARA KAMBA	RUPI	14	20	34	41%	59%
	СННОТА КАМВА	RUPI	31	17	48	65%	35%
KINNAUR	KAFNU	RUPI	16	6	22	73%	27%
	KALPA	KALPA	30	17	47	64%	36%
	ROGI	KALPA	25	46	71	35%	65%
KULLU	KANDAGHAI	CHOWAI	3	25	28	4%	96%
KULLU	TOGI	CHOWAI	13	29	42	31%	69%
MANDI	SHANKAR DEHRA	KARSOG	19	29	48	40%	60%
SHIMLA	MANDOR GHAT	CHANDI	19	31	50	38%	62%
COLAN	KHALI	CHANDI	5	42	47	11%	89%
SOLAN	MANLOG BADOG	DARLAGHAT	25	40	65	38%	62%
Gr	and Total		200	302	502	40%	60%

Procuring fodder from market was one option preferred by 54% of the respondent households surveyed. These respondents also stated they would prefer to visit the pastures often but are constrained to buy from the markets due to non-availability of

grass in the pastures all-round the year due to scarcity of water. Grass grows after the monsoons so they visit the pastures for collection of the grass after the monsoon season is over i.e. during July to September and during this period they collect sufficient grass that would last for around 4-5 months. In the remaining part of the year they have to depend on the local market dealers or traders for fodder for their livestock.

Only 4% of the households surveyed stated that they are solely dependent on pastures for fodder. 25% of the households use roughage and crop residue of the crops cultivated on their own land. The details of number of HH dependent on various sources of fodder are presented in the table below.

Table 40: Distribution of HH based on Source of Fodder

DISTRICT	VILLAGE	RANGE	PASTURE S	PASTURE / OWN LAND	MARKET/ PASTURE S	MARKET/ OWN LAND/ PASTURES	OWN LAND	MARKE / OWN LAND	OTHER SOURCES	NA	Grand Total
KINNAUR	BARA KAMBA	RUPI	-	50%	-	3%	18%	-	-	29%	34
	СННОТА КАМВА	RUPI	-	35%	-	-	56%	8%	-	-	48
	KAFNU	RUPI	9%	5%	-	5%	68%	-	-	14%	22
	KALPA	KALPA	-	28%	=	6%	40%	2%	=	23%	47
	ROGI	KALPA	-	54%	-	-	31%	-	-	15%	71
KULLU	KANDAGHAI	CHOWA I	12%	62%	4%	19%	-	-	-	4%	28
	TOGI	CHOWA I	7%	60%	2%	-	-	-	-	31%	42
MANDI	SHANKAR DEHRA	KARSO G	17%	42%	-	2%	38%	2%	-	-	48
SHIMLA	MANDOR GHAT	CHANDI	-	62%	-	-	20%	-	-	18%	50
SOLAN	KHALI	CHANDI	6%	51%	9%	11%	6%	9%	2%	6%	47
	MANLOG BADOG	DARLA GHAT	-	40%	14%	23%	11%	6%	3%	3%	65
Grand Tot	al		4%	3%	45%	6%	25%	3%	1%	13%	502

25% of the respondents confirmed that they visit the pastures on weekly basis to collect fodder. Members of 58% of the Households surveyed would visit the pastures for collection of fodder at least once in a year.

Table 41: Frequency of Collection of Fodder

DISTRICT	VILLAGE	RANGE	WEEKLY	MONTHLY	QUARTERLY	YEARLY	NA	Grand Total
KININIALID	BARA KAMBA	RUPI	15%	32%	3%	-	50%	34
KINNAUR	СННОТА КАМВА	RUPI	15%	21%	-	-	65%	48

DISTRICT	VILLAGE	RANGE	WEEKLY	MONTHLY	QUARTERLY	YEARLY	NA	Grand Total
	KAFNU	RUPI	14%	-	-	-	86%	22
	KALPA	KALPA	23%	9%	-	-	68%	47
	ROGI	KALPA	32%	28%	-	-	39%	71
V111111	KANDAGHAI	CHOWAI	4%	82%	-	4%	11%	28
KULLU	TOGI	CHOWAI	2%	17%	31%	-	50%	42
MANDI	SHANKAR DEHRA	KARSOG	19%	33%	4%	-	44%	48
SHIMLA	MANDOR GHAT	CHANDI	42%	18%	2%	-	38%	50
SOLAN	KHALI	CHANDI	40%	17%	17%	4%	21%	47
SULAN	MANLOG BADOG	DARLAGHAT	37%	22%	22%	3%	17%	65
G	rand Total		25%	24%	8%	1%	42%	502

4.6.2 Timber Collection

Around 78.9% of the Households surveyed stated that they do not require timber now as they have their houses constructed and whenever they will have any requirement for construction purpose they would prefer to get it through the Timber Distribution System (TDS or TD as popularly known). Only 1.8% of the households confirmed to have received timber for construction of their houses through TDS. 16.9% of the respondents stated that they had to procure timber from the market for their household requirements. 2.4% of the respondents stated that they have sufficient trees growing on their own land to satisfy their timber requirement if any.

Table 42: Source of Timber for Domestic Purpose

DISTRICT	VILLAGE	RANGE	TD	MARKET	OWN LAND	Not Required	Grand Total
	BARA KAMBA	RUPI	-	2.9%	20.6%	76.5%	34
	СННОТА КАМВА	RUPI	4.2%	62.5%	-	33.3%	48
KINNAUR	KAFNU	RUPI	-	-	-	100.0%	22
	KALPA	KALPA	-	25.5%	4.3%	70.2%	47
	ROGI	KALPA	2.8%	39.4%	-	57.7%	71
VIII I I	KANDAGHAI	ANNI	-	-	-	100.0%	28
KULLU	TOGI	ANNI	-	-	-	100.0%	42
MANDI	SHANKAR DEHRA	KARSOG	6.3%	4.2%	-	89.6%	48
SHIMLA	MANDOR GHAT	CHANDI	4.0%	4.0%	2.0%	90.0%	50
COLAN	KHALI	CHANDI	-	4.3%	-	95.7%	47
SOLAN	MANLOG BADOG	DARLAGHAT	-	12.3%	3.1%	84.6%	65
G	Grand Total		9	85	12	396	502
	%		1.8%	16.9%	2.4%	78.9%	100%

People stated that the earlier they were having access to the forest as the source of timber when the green felling was allowed. Each family was allowed to harvest assigned timber every 3 to 5 years for domestic purpose on a nominal price, which was generally several times lower than market rate. People used to fell species such as Deodar (*Cedrus deodar*) and Kail (*Pinus roxburghii*) for timber. But since the green felling of trees has been prohibited they have not received any timber from the Forest Department as now only the dry / dead trees could be cut and distributed under TDS.

4.6.3 NTFP Collection

NTFP collection was not confirmed by the respondents in any of the villages under the apprehension that they might be penalized for collecting the NTFPs from forest. However they stated that there are people in the village who go the forest for collection of NTFP from the forests. The NTFPs usually collected were *Nag Chhatri, Gucchi* (wild Mushrooms), *Bar, Kakri, Bahera, Amla, Mustak* etc. along with *Dadu* (wild pomegranates) and *Chilgoza*. Only 4 respondents openly stated that they would go to collect *Katar Singe* and *Naag Chhatri* in the forest. However, almost all the respondents maintained that planting of medicinal plants, *Gucchi, Dadu*, good quality walnuts etc. would be beneficial for the community.

4.7 Participation in Forest Operations

4.7.1 Plantations

Plantations are carried out by the Forest Department on regular basis after the monsoon season. Out of the total 502 households surveyed during the assessment study only 12% of the respondents were aware of the plantation activities carried out in recent past, 88% of the households denied having any information on the plantation activities or the species planted in the forests.

Perhaps making the community aware about the Forest Department activities would help in understanding the local needs and improving the participation of people in forest related activities An awareness camp by the forest guard in the village who is the local point of contact for the villagers to activities undertaken by the forest department would go a long way in participation of the communities in forest related activities.

Table 43: Awareness about Plantation Operations

DISTRICT	VILLAGE	RANGE	N	Υ	Grand Total
	BARA KAMBA	RUPI	74%	26%	34
KINNAUR	СННОТА КАМВА	RUPI	79%	21%	48
	KAFNU	RUPI	100%	-	22

	KALPA	KALPA	96%	4%	47
	ROGI	KALPA	99%	1%	71
KULLU	KANDAGHAI	CHOWAI	68%	32%	28
	TOGI	CHOWAI	100%	-	42
MANDI	SHANKAR DEHRA	KARSOG	100%	-	48
SHIMLA	MANDOR GHAT	CHANDI	100%	-	50
SOLAN	KHALI	CHANDI	57%	43%	47
SOLAN	MANLOG BADOG	DARLAGHAT	83%	17%	65
Grand Total			88%	12%	502

4.7.2 Participation in Nurseries and Plantations

Only 5% of the households stated that the members of their family had participated in the plantation operations of the Forest Department wherein they were engaged as daily laborers for digging pits for the saplings to be planted, carrying saplings from the nursery to the plantation sites, watering the plants or other miscellaneous works. The villagers participating in the plantation activities are paid a daily wage rate of Rs 210 – 220 as prescribed under the government norms.

Table 44: Participation in Plantation Operations

DISTRICT	VILLAGE	RANGE	N	Y	Grand Total
KINNAUR	BARA KAMBA	RUPI	82%	18%	34
	СННОТА КАМВА	RUPI	100%	-	48
	KAFNU	RUPI	100%	-	22
	KALPA	KALPA	96%	4%	47
	ROGI	KALPA	100%	-	71
KULLU	KANDAGHAI	CHOWAI	93%	7%	28
	TOGI	CHOWAI	100%	-	42
MANDI	SHANKAR DEHRA	KARSOG	100%	1	48
SHIMLA	MANDOR GHAT	CHANDI	100%	-	50
SOLAN	KHALI	CHANDI	68%	32%	47
	MANLOG BADOG	DARLAGHAT	100%	-	65
Grand Total			95%	5%	502

Only 3% of the total respondents replied in affirmative to the question whether any household member had ever participated in nursery operations in the nurseries of the Forest Department. 17% of the respondents in Chhota Kamba village confirmed that

their household members have participated in the nursery operations due to the presence of the nursery within the village.

Table 45: Participation in Nursery Operations

DISTRICT	VILLAGE	RANGE	N	Υ	Grand Total
	BARA KAMBA	RUPI	97%	3%	34
	СННОТА КАМВА	RUPI	83%	17%	48
KINNAUR	KAFNU	RUPI	100%	-	22
	KALPA	KALPA	96%	4%	47
	ROGI	KALPA	99%	1%	71
KULLU	KANDAGHAI	CHOWAI	100%	-	28
KULLU	TOGI	CHOWAI	100%	-	42
MANDI	SHANKAR DEHRA	KARSOG	100%	-	48
SHIMLA	MANDOR GHAT	CHANDI	100%	-	50
SOLANI	KHALI	CHANDI	96%	4%	47
SOLAN	MANLOG BADOG	DARLAGHAT	100%	-	65
	Grand Total	97%	3%	502	

Efforts from the department in terms of engaging the communities, training programs, awareness programs etc. will help not only in improving the levels of participation of the communities in forest related activities but also help improve the livelihoods of the local communities as most of the members are engaged in agricultural activity which is seasonal in nature and the returns are obtained once the harvest is sold. In most villages rainfed agriculture is practiced which makes their income uncertain and their engagement in any sort of economic opportunities would help not only in improving their income but also in reducing migration of the local community during peak tourist season to cities like Shimla, Kullu, Manali etc.

4.7.3 Forest Fires

Forest fires is a regular and a frequently occurring phenomenon which take place every year. In the incidence of fires the villagers play an active role in informing the Forest Department and getting the fire extinguished in assistance with the Forest Department. 90% of the respondents confirmed that they or one of the member of their household have actively participated in extinguishing the fire. The HPFD is encouraging Fire Free Villages and giving an incentive of Rs. 5000/- to Fire Free Villages. About 4000 volunteers have enrolled for fire fighting.

Table 46: Role in Controlling Forest Fires

DISTRICT	VILLAGE	RANGE	FOREST DEPARTMENT	SELF- CONTROLLED	VILLAGERS & FD	Grand Total
KINNAU R	BARA KAMBA	RUPI	9%	-	91%	34
	СННОТА КАМВА	RUPI	4%	8%	88%	48
	KAFNU	RUPI	9%	-	91%	22
	KALPA	KALPA	0%	-	100%	47
	ROGI	KALPA	3%	1%	96%	71
KULLU	KANDAGHAI	CHOWAI	0%	-	100%	28
	TOGI	CHOWAI	0%	7%	93%	42
MANDI	SHANKAR DEHRA	KARSOG	0%	-	100%	48
SHIMLA	MANDOR GHAT	CHANDI	0%	4%	96%	50
SOLAN	KHALI	CHANDI	17%	11%	72%	47
	MANLOG BADOG	DARLAGHA T	14%	15%	71%	65
Grand Total			5%	5%	90%	502

Forest fires cause a lot of damage not only to the ecology but to the wildlife. Respondents of the villages close to the wildlife ranges of Rupi and Chandi stated that the wild animals, in order to escape the fire would often enter the village and not only damage the crops but sometimes would attack the humans as well as the livestock. Several incidents of attacks were narrated by the villagers in Khali village of Solan and Bara Kamba village in Kinnaur.

4.8 Employment and Migration

4.8.1 Employment Opportunities

Lack of opportunities for employment and income generation was one of the major issues raised by the respondents in almost all the villages. Members of the community in almost all the villages stated that the employment opportunities are rare in their village with the exception of Kandaghai and Togi villages.

16.3% of the respondents stated that employment opportunities are seasonal while 67.9% of the respondents denied of any existing employment opportunities in the region. In almost all the villages the members of the community depended on jobs available under MGNREGA.

Respondents in almost all the villages stated that the Forest Department can play an important role by engaging the local community members in nursery operations and

plantation activities. This will not only help in generating employment and income but would help reduce migration from the villages in search of employment.

Table 47: Availability of Employment Opportunities

DISTRICT	VILLAGE	THROUGHOUT THE YEAR	SEASONAL	NONE	Grand Total
	BARA KAMBA	26.5%	38.2%	35.3%	34
	СННОТА КАМВА	8.3%	10.4%	81.3%	48
KINNAUR	KAFNU	-	-	100.0%	22
	KALPA	-	6.4%	93.6%	47
	ROGI	-	5.6%	94.4%	71
VIII.I.I	KANDAGHAI	92.9%	7.1%	-	28
KULLU	TOGI	78.6%	21.4%	-	42
MANDI	SHANKAR DEHRA	-	6.3%	93.8%	48
SHIMLA	MANDOR GHAT	2.0%	6.0%	92.0%	50
COLAN	KHALI	8.5%	38.3%	53.2%	47
SOLAN	MANLOG BADOG	3.1%	33.8%	63.1%	65
Grand Tota	l	79	82	341	502
%		15.7%	16.3%	67.9%	100%

4.8.2 Migration

Due to lack of employment opportunities members of around 30% of the households surveyed migrate to other cities for work. Migration levels were very high in Khali village of Solan where members of 81% of the household usually migrate to Shimla during peak tourist season and similarly in Kafnu members of 68% household migrate to other towns for employment as agriculture is a seasonal engagement and is highly risky due to dependence on rainfall in most of the villages.

Table 48: Migration of HH members

DISTRICT	VILLACE	Whether Men	Crond Total	
DISTRICT	VILLAGE	N	Υ	Grand Total
	BARA KAMBA	76%	24%	34
	СННОТА КАМВА	96%	4%	48
KINNAUR	KAFNU	32%	68%	22
	KALPA	68%	32%	47
	ROGI	59%	41%	71

Z11111	KANDAGHAI	100%	0%	28
KULLU	TOGI	79%	21%	42
MANDI	SHANKAR DEHRA	100%	-	48
SHIMLA	MANDOR GHAT	86%	14%	50
SOLAN	KHALI	19%	81%	47
SOLAN	MANLOG BADOG	58%	42%	65
Grand Total		70%	30%	502

Male members of the 30% household often migrate to other cities with around 19% of the households reporting that the migration of male members is often long term and male members migrate to other towns in search of employment in 8% of the households. While male members migrate to other cities female member often stay back to take care of the children and manage agriculture, supplementary income generation apart from household work in the absence of male members.

Table 49: Migration of Male Members

DISTRICT	VILLAGE	DAILY	SEASONAL	LONG TERM	N	Grand Total
	BARA KAMBA	9%	15%	-	76%	34
	СННОТА КАМВА	4%	-	-	96%	48
KINNAUR	KAFNU	-	-	68%	32%	22
	KALPA	-	4%	28%	68%	47
	ROGI	-	0%	41%	59%	71
KULLU	KANDAGHAI	1	0%	-	100%	28
KULLU	TOGI	-	7%	14%	79%	42
MANDI	SHANKAR DEHRA	1	0%	-	100%	48
SHIMLA	MANDOR GHAT	-	0%	14%	86%	50
COLAN	KHALI	6%	40%	34%	19%	47
SOLAN	MANLOG BADOG	12%	14%	15%	58%	65
Gı	and Total	3%	8%	19%	70%	502

Female members of the 87% households refrain from migrating as only 9% households reported having female members who often migrate for work on long term basis along with their husbands while around 3% migrate seasonally. Most female members stay back to look after the children and elderly and any crops.

Table 50: Migration of Female Members

DISTRICT	VILLAGE	DAILY	SEASONAL	LONG TERM	N	Grand Total
	BARA KAMBA	-	-	-	100%	34
	СННОТА КАМВА	4%	-	-	96%	48
KINNAUR	KAFNU	-	-	18%	82%	22
	KALPA	-	-	6%	94%	47
	ROGI	-	-	-	100%	71
W111111	KANDAGHAI	-	-	-	100%	28
KULLU	TOGI	-	-	14%	86%	42
MANDI	SHANKAR DEHRA	-	-	-	100%	48
SHIMLA	MANDOR GHAT	-	-	2%	98%	50
COLAN	KHALI	-	26%	45%	30%	47
SOLAN	MANLOG BADOG	-	6%	15%	78%	65
Gı	Grand Total		3%	9%	87%	502

4.9 Conflicts and Resolution

The respondents of the assessment survey confirmed to not having had a conflict with any other member of the community or other communities over forest rights issues during the recent past. When asked about their interaction with the transhumant who have the forest rights the respondents both in the individual interviews and during the FGDs stated that the transhumant have permits to stay in the forest and they usually camp at the higher reaches of the forests and since they have the grazing rights they do not usually trespass into the village or private fields but sometimes if any stray incidence happens the issue is amicably sorted out through discussions and engaging the PRI members of the village and having direct discussions with the transhumant community. However, the respondents confirmed having not faced such a situation.

4.10 Grievance Redressal

The respondents of the survey were unaware of the formal grievance redressal mechanism of the state however, in case of any complaints or issues related to a particular department they villagers would often approach the PRI member or contact the officials of the concerned department directly to register their complaint. In case their complaint was not addressed many were not aware where and how to escalate it to the higher level authority. The respondents confirmed not having registered any complaint relating to any department.

4.11 Expectations from the Project/ Department

The following are the village wise expectations of the community members/ respondents from the project:

Table 51: Sample Village and Community Expectations from the Project/Department

DISTRICT	VILLAGE	EXPECTATIONS
	BARA KAMBA	 fruit bearing plants should be grown in the nursery and should be made available to the villagers fencing around the village to protect from wild animals Path to forest may be developed and bridge constructed over the drain. plantation should be done in forest and local community members be engage to ensure employment check dams / irrigation facilities must be developed plantation in landslide zones for slope stabilization be done awareness campaign / training camps be organized for the villagers
	СННОТА КАМВА	 good variety apple plants may be grown in the nursery and should be made available to the villagers improve irrigation facilities in the village forest department must engage local communities so that they generate employment through participation in nursery and plantation activities protection of villagers from wild animals must be ensured different type of plants should be planted in forest
KINNAUR	KAFNU	 timber be made available more frequently under TDS
	KALPA	 grow more plants timber under TDS be distributed more frequently awareness generation related to forest department activities and new plants being planted effective measures be taken to protect forest from fires and in case of fire it must be controlled immediately new plantations should be developed where medicinal plants, fruit bearing plants and fodder rich plants must be grown prevent wild animals from entering the villages pastures should be maintained so that sufficient grass is available for fodder to the livestock
	ROGI	 irrigation facilities like check dams / ponds etc. must be developed in the forest region engaging local community members in plantation activities will help generating employment wood distribution to meet the needs of village awareness generation regarding the forest rights and policies should be organized Timber under TDS be distributed to all the villagers in need of the wood.
KULLU	KANDAGHA I	 irrigation facilities must be generated pastures may be developed and maintained so that sufficient grass is available as fodder for the livestock fruit bearing trees and medicinal plants be planted in the forest good variety of apples must be planted in nurseries and provided to the villagers for developing orchards

November 2018

		 protection from wild animals particularly monkeys should be ensured
		storage facilities be developed near the village.
		generate employment through nursery
		• organize awareness camp,
	TOGI	 do plantation of fruit bearing trees,
		construct a zoo for the animal caught by forest department
		organize awareness camp
		• prevent forest from fire
MANDI	SHANKAR	 medicinal and fruit bearing plants must be planted
WIMI	DEHRA	■ TD should be provided once every 10 years instead of regular 20 years
		 bush cutting must be done regularly
SHIMLA	MANDOR	 grass and plantation should be developed
SHINILA	GHAT	 medicinal plants be grown in forest
		 nursery in village would help in providing beneficial plants to the community members
		 awareness camp be organized by the forest department and programs and policies be explained to the villagers
		 protection from wild animals must be ensured
		a zoo may be developed and wild animal caught by the forest department may be kept in a zoo
		 develop nursery in the village
	WITAT I	 generate employment through plantation/ grow more medicine plantation
	KHALI	grow medicine in plantation
		give permission to access to forest and permission to cut the grass from forest
COLANI		 engage local community in plantation and nursery operations
SOLAN		timber must be provided under TDS to the community
		• proper water supply for plantation
		awareness camp be organized by the forest department
		• protection against wild animals must be ensured
	MANLOG	private barren lands may be developed as plantation
	BADOG	• fruit bearing and fodder rich plants must be planted in forest under plantation scheme
		• timber must be distributed on regular basis under TDS
		dadu must be planted in the forest region

info@samajvikas.org cemt@cemt.in

4.12 Gender Roles

Women play a significant and crucial role in agricultural development and allied fields including the main crop production, livestock production, horticulture and post - harvest operations. Despite their importance to agricultural production, women face severe handicaps. They play a prominent role in agriculture despite having to bear dual burden of managing the household and perform the following roles in different sectors:

- **Agriculture:** Cultivation, Sowing, transplanting, weeding, irrigation, fertilizer application, plant protection, harvesting, winnowing, storing etc.
- **Domestic:** Cooking, child rearing, water collection, fuel wood gathering, household maintenance etc.
- NTFP: Collection, cleaning, washing/drying, selling to local trader, at seasonal/weekly markets, etc.

Following section of the report highlights the role of women in economic and household activities, decision making at household and community level and employment.

4.12.1 Participation

4.12.1.1 Agriculture

96% of the respondents agree that females of the house actively participate in cultivation of crops whenever required. 4% of the respondents were of the view that only male members of the household undertake cultivation activities.

Table 52: Participation in Cultivation

DISTRICT	VILLAGE	M	F	вотн	Grand Total
	BARA KAMBA	15%	3%	82%	34
	СННОТА КАМВА	10%	4%	85%	48
KINNAUR	KAFNU	-	9%	91%	22
	KALPA	2%	-	98%	47
	ROGI	3%	4%	93%	71
VIII I I	KANDAGHAI	-	4%	96%	28
KULLU	TOGI	7%	2%	90%	42
MANDI	SHANKAR DEHRA	2%	2%	96%	48
SHIMLA	MANDOR GHAT	4%	-	96%	50
SOLAN	KHALI	-	2%	98%	47

DISTRICT	VILLAGE	M	F	вотн	Grand Total
	MANLOG BADOG	-	6%	94%	65
Grand Total		4%	3%	93%	502

4.12.1.2 Livestock Rearing

97% of the total respondents admitted that women play active role in livestock activities and other allied activities. In 88% of the HH women supported the male members of the household and contributed in the livestock rearing and allied activities.

Table 53: Participation in Livestock Rearing

DISTRICT	VILLAGE	M	F	вотн	Grand Total
	BARA KAMBA	6%	9%	85%	34
	СННОТА КАМВА	6%	6%	88%	48
KINNAUR	KAFNU	-	-	100%	22
	KALPA	-	2%	98%	47
	ROGI	-	1%	99%	71
1/111111	KANDAGHAI	-	11%	89%	28
KULLU	TOGI	5%	21%	74%	42
MANDI	SHANKAR DEHRA	2%	2%	96%	48
SHIMLA	MANDOR GHAT	-	2%	90%	50
COLANI	KHALI	-	21%	79%	47
SOLAN	MANLOG BADOG	-	23%	74%	65
Grand Total		2%	9%	89%	502

4.12.1.3 NTFP Collection

Women in the study villages worked hand in hand with the male members of the household in collection of NTFP, grass for fodder and fuel wood from forest. In 84% of the households women would often accompany the male members to collect the NTFP, fodder and fuel wood from forests. In 6% of the households women would bear the entire responsibility of collecting NTFPs, fodder and fuel wood. Only in case of 9% households, male members of the family would go to the forest for collecting commodities required in the household. Thus, in 90 percent households women either alone or along with their male family members are responsible for/ involved in the collection of NTFPs from the forests.

Table 54: Participation in NTFP Collection

DISTRICT	VILLAGE	M	F	вотн	N	Grand Total
KINNAUR	BARA KAMBA	12%	6%	82%	-	34
	СННОТА КАМВА	8%	13%	79%	-	48
	KAFNU	-	5%	95%	-	22
	KALPA	2%	2%	96%	1	47
	ROGI	6%	8%	86%	-	71
KULLU	KANDAGHAI	43%	4%	54%	1	28
	TOGI	12%	2%	86%	-	42
MANDI	SHANKAR DEHRA	6%	6%	88%	1	48
SHIMLA	MANDOR GHAT	1	4%	88%	8%	50
SOLAN	KHALI	17%	2%	81%	-	47
	MANLOG BADOG	6%	9%	82%	3%	65
Grand Tota	1	9%	6%	84%	1%	502

4.12.1.4 Trade and Business

In 2% households, women play active role in trade and business related activities which involved sale of excess agricultural produce, contacting the traders and fixing the price of the commodity to be sold. In 73% of the households women assisted the male members in trade related activities. In 25% of the households the sector was handled solely by male members of the society.

Table 55: Participation in Trade and Business

DISTRICT	VILLAGE	M	F	вотн	NA	Grand Total
	BARA KAMBA	35%	3%	62%	-	34
	СННОТА КАМВА	10%	6%	83%	-	48
KINNAUR	KAFNU	5%	-	95%	-	22
	KALPA	13%	-	87%	-	47
	ROGI	14%	-	86%	-	71
VIII.II	KANDAGHAI	50%	4%	46%	-	28
KULLU	TOGI	33%	-	67%	-	42
MANDI	SHANKAR DEHRA	19%	-	81%	-	48

SHIMLA	MANDOR GHAT	30%	-	62%	8%	50
SOLAN	KHALI	36%	4%	60%	-	47
SOLAN	MANLOG BADOG	32%	3%	65%	-	65
Gr	and Total	25%	2%	73%	1%	502

4.12.1.5 Household Tasks

Male members of 71% of the household contributed in the household tasks and assisted the female members. However, responsibility of daily household works lay entirely on the female members in 25% of the households surveyed. 4% households in the surveyed sample stated that only male members did the household works.

Table 56: Participation in Household Tasks

DISTRICT	VILLAGE	M	F	вотн	Grand Total
	BARA KAMBA	9%	-	91%	34
	СННОТА КАМВА	-	15%	85%	48
KINNAUR	KAFNU	5%	36%	59%	22
	KALPA	6%	32%	62%	47
	ROGI	4%	27%	69%	71
VIIIII	KANDAGHAI	-	14%	86%	28
KULLU	TOGI	5%	2%	93%	42
MANDI	SHANKAR DEHRA	-	6%	94%	48
SHIMLA	MANDOR GHAT	-	54%	46%	50
SOLANI	KHALI	9%	51%	40%	47
SOLAN	MANLOG BADOG	6%	29%	65%	65
Gı	and Total	4%	25%	71%	502

4.12.2 Decision Making

4.12.2.1 Financial Matters

In 88% households women were engaged in decision making related to financial matters wherein in 4% households, women were solely responsible for the financial matters.

The fact that male members of the household discuss the financial matters with the female members and decision is mutually taken depending while implementing the decision would generally be undertaken by the male members of the household.

In 13% households taken up for the study the male members of the household were solely responsible for taking and implementing the decisions related to financial matters.

Table 57: Decision Making in Financial Matters

DISTRICT	VILLAGE	M	F	вотн	Grand Total
	BARA KAMBA	18%	-	82%	34
	СННОТА КАМВА	15%	4%	81%	48
KINNAUR	KAFNU	5%	-	95%	22
	KALPA	-	-	100%	47
	ROGI	3%	3%	94%	71
VIIIII	KANDAGHAI	43%	7%	50%	28
KULLU	TOGI	10%	2%	88%	42
MANDI	SHANKAR DEHRA	8%	2%	90%	48
SHIMLA	MANDOR GHAT	4%	4%	92%	50
COLAN	KHALI	32%	9%	60%	47
SOLAN	MANLOG BADOG	17%	6%	77%	65
Gı	rand Total	13%	4%	84%	502

4.12.2.2 HH Activities

Female members of 8% households were solely responsible for taking decisions related to day to day activities while in 88% households male members assisted the female members in day to day work and the decisions were jointly taken in consultation with each other.

Table 58: Decision Making in HH Activities

DISTRICT	VILLAGE	M	F	вотн	Grand Total
	BARA KAMBA	12%	3%	85%	34
	СННОТА КАМВА	4%	13%	83%	48
KINNAUR	KAFNU	5%	-	95%	22
	KALPA	4%	-	96%	47
	ROGI	3%	6%	92%	71
KULLU	KANDAGHAI	0%	32%	68%	28
KULLU	TOGI	5%	10%	86%	42

MANDI	SHANKAR DEHRA	0%	4%	96%	48
SHIMLA	MANDOR GHAT	4%	2%	94%	50
COLANI	KHALI	9%	17%	74%	47
SOLAN	MANLOG BADOG	0%	6%	94%	65
Gr	Grand Total		8%	88%	502

4.12.2.3 Land and Property

In 90% households male members discuss the issues related to land and property with the female members and the decision is mutually taken whether to sale, purchase, lease or rent or mortgage the land and property. While in 6% and 4% households the decisions of male and female members respectively, is binding.

Table 59: Decision Making Related to Land and Property

DISTRICT	VILLAGE	M	F	вотн	Grand Total
	BARA KAMBA	15%	-	85%	34
	СННОТА КАМВА	-	4%	96%	48
KINNAUR	KAFNU	5%	-	95%	22
	KALPA	-	-	100%	47
	ROGI	3%	6%	92%	71
VIIIII	KANDAGHAI	-	4%	96%	28
KULLU	TOGI	7%	-	93%	42
MANDI	SHANKAR DEHRA	-	-	100%	48
SHIMLA	MANDOR GHAT	4%	2%	94%	50
COLANI	KHALI	11%	17%	72%	47
SOLAN	MANLOG BADOG	18%	3%	78%	65
Gr	and Total	6%	4%	90%	502

4.13 Consultations and Disclosure

Community Consultations in the form of FGDs were conducted in each village to assess the economic dependence of the resident population on forest and assimilate their expectations from the Forest Department and the Project. A summary of these community consultations is annexed to this report as Annexure 6.

Table 60: Village wise Participation during Community Consultation

District	Name	PARTICIPANTS IN CONSULTATIONS			
		M	F	TOTAL	
KINNAUR	Bara Kamba	12	6	18	
KINNAUR	Chhota Kamba	11	13	24	
KINNAUR	Kafnu	14	8	22	
KINNAUR	Kalpa	12	6	18	
KINNAUR	Rogi	7	9	16	
KULLU	Kandaghai	17	5	22	
KULLU	Togi Dalash	10	18	28	
MANDI	Shankar Dehra	28	6	34	
SHIMLA	Mandhor Ghat	7	9	16	
SOLAN	Manlog Badog	8	26	34	
SOLAN	Khali	7	15	22	
Grand Total		133	121	254	

A State-level Stakeholder Consultation cum Disclosure workshop was conducted on 15 October 2018 at Thana Kalan, District Una. The Feedback from this workshop is incorporated in this report. A brief report on this Stakeholder Consultation and Disclosure Workshop is also annexed to this report (Annexure 7).

The findings of the consultation are as presented in the proceeding sections:

4.13.1 Sale of Excess Produce

Crops grown in the region like wheat, Barley, Maize except the cash crops like potatoes, peas, walnuts, apples etc. are mostly used for household consumption. Average production per bigha or yield varied from village to village depending upon the availability of water and source of irrigation for crops. Terrace farming is mostly practiced in all the villages surveyed and out of the 11 villages surveyed irrigation water was easily available in two villages i.e. Manlog Badog in Solan and Shankar Dera in Mandi villages only. The excess crop produced is sold in local market or to the traders who visit the village and purchase the standing crops at mutually agreed rates. Some of the examples are as under:

- In Manlog Badog village excess wheat was sold in the local market at a rate of Rs 12-15 per kg depending upon the quality of produce.
- In Shankar Dehra village potatoes were sold to the local traders at Rs 5 per kg and peas were sold at Rs 20-25 per kg depending upon quality
- In Kanda Ghai village quality of apples determined the price of the boxes. Frost and snow usually damages the crop and the rate varies from Rs 30 50 per kg. Apples are packed in wooden boxes and each box contains 20-25 kg of apples.

If the farmers have to carry the excess produce to the local market the cost of production is often borne by the farmers and if sold to the local traders visiting the village the cost is adjusted in selling price of the produce. Most of the Farmers are not aware of the local market prices and often sell their produce at a rate offered to them by the traders or agents. The respondents interviewed during the study were unaware of the online systems like the "National Agricultural Market" (http://www.enam.gov.in) a Government portal for selling of agricultural commodities in registered agricultural markets.

4.13.2 Participation in Forest Management

The villagers surveyed during the study seemed to be unaware of any functional society formed by the Forest Department like JFMCs in their or nearby villages. However respondents stated that Mahila Mandal – a woman self-help group is functional in the villages was the only group which carries out activities related to income generation by providing credit and developing linkages with the rural banks.

In the villages surveyed the micro-plan had not been prepared by villagers and the Gram Panchayats never discuss the development schemes or plans with the villagers. In Manlog Badog village of Solan district the respondents categorically stated that the Gram Pradhans call for the gram sabha meetings but when the people reach the venue they just make them attendance register and leave as they have to ensure that the criteria of quorum for holding a gram sabha meeting needs to be fulfilled prior to organizing the meeting and the meeting hardly ever materializes.

The respondents responded in the negative to having participated in nursery and plantation operations, however few of them agreed that there were some villagers both males and females who have worked in nurseries and plantation programs organized by the Department where they were paid the rates on basis of daily wage rates at around Rs 220 per day. The respondents interviewed in the study villages had not participated in the selection of species for plantation or growing in nursery.

Community members were of the view that the selection of plants should be done in a manner that the plants which are suitable to the ecology of the region, beneficial to the community in terms of economic value and provides fruit, food and fodder must be selected and planted in the forest areas. Participants in Chandi W/L and Darlaghat Forest Range of Solan and Shimla stated that plantation of Anardana (Daru – local name), medicinal plants and fodder rich plants would benefit the community members, majority of whom often go to the forest to collect fodder for their livestock.

In Chhota Kamba and Bada Kamba villages of Kinnaur participants expressed that the plantation of Gucchi (wild mushroom), dhoop and fodder rich plants would prove to be beneficial for the villagers.

4.13.3 NTFP Collection

Many respondents express in open that they are not engaged in collection of NTFP from the nearby forests; however they informed on the promise of secrecy that they often collected medicinal herbs like *Nag Chhatri, Bar, Kakri, Bahera, Amla, Mustak* etc. along with *gucchi* (wild mushroom), *dadu* (pomegranates) etc. which are used for consumption. Sometimes they sell it if they are able to find suitable buyers.

90% of the respondents agreed that they visited forests to collect grass and leaves as fodder for their livestock. The respondents also stated that they usually visit the forest to collect grass on yearly basis just after the monsoon season i.e. during August – October and would collect sufficient grass to serve as fodder for the next 4-5 months. On an average around 20-25 kg of grass is collected per day and stored. After the stock of fodder collected from pastures and forest is exhausted they have to buy it from market however respondents in Shankar Dera village in Mandi, Manlog Badog in Solan, and Chhota Kamba and Bara Kamba villages of Kinnaur maintained that the roughages obtained from maize serve as a good fodder for their livestock and they did not require to purchase the fodder from Market however in the other villages the respondents expressed that they had to purchase the fodder from the market to fulfill the needs of their livestock.

Respondents in Manlog Badog stated that they have stopped visiting forest as there was excessive growth of lantana in the forest and secondly the forest department in its attempt to clear the forest had cut all the trees as well and now the entire space is taken up by lantana.

Entry of villagers in restricted in Wildlife ranges and protected forests. Villagers of Chhota Kamba, Bada Kamba of Rupi Wildlife and in Chandi Wildlife stated that since these forests are restricted they are not able to collect any NTFP from the forest hence the Forest Department may develop the nurseries and provide saplings those species that they may plant in their barren lands and which are economically beneficial to them like Akhrot, Dadu etc.. This will not only improve the green cover of the region but also help in improving trade in the region and hence their livelihoods.

Fodder, leaves and fuel wood are the common forest products collected by the villagers in almost all the villages sampled. Grass for fodder is collected once in a year

during the months of September and October and stored. Each household is able to collect the grass which lasts for 4-5 months depending on the quantity collected. For the remaining year, except for the villagers in Darlaghat range and Shankar Dera village of Karsog range, villagers have to buy the fodder from local market. In Shankar Dera and Manlog Badog villages due to ample availability of irrigation water the villagers are able to cultivate sufficient amount of fodder for their livestock.

4.13.4 Storage Facilities and Sale of NTFP and Agricultural Products

There are no storage facilities available in or near any of the villages for storage of agricultural produce. In Kanda ghai and Togi villages of Kullu and other apple producing villages the apple harvested is packed in boxes of 20-25 kg each and sold to the local traders or directly to the traders in Mandi (Agricultural Produce Markets) at a price range of Rs 30 – 50 depending upon the quality. Most of the apple producers store around 45-50 kg depending on household size foe personal consumption in their homes without any cooling facilities. The apples stored for personal consumption often last upto 4 months after harvesting. Similarly cash crops like potatoes and peas are sold to local traders by the villagers of Shankar Dera village in Karsog at the rate of Rs 5 and Rs 25-30 per kg respectively. Developing storage facilities at an easily accessible location will help in improving the selling price and bargaining power of the local communities.

4.13.5 Timber Distribution

The respondents among sample HH had not received Timber under Timber Distribution System. However the respondents were aware of the scheme of the Forest Department but denied to have received it yet. Most of the respondents had stated that the timber is required during the construction of houses and since they already had their houses built they seldom require timber and if required they buy it from the market as the Forest Department has discontinued cutting and felling of green trees under TDS.

Some members in Shanka Dera village and Manlog Badog village reported that their father have received timber about 3 cubic meter each about 20 years back once they had placed the request with the Forest Department..

Dry fallen trees are distributed every year but can be given to a family once every 20 years on receipt of the written application from the respondent. 2.5 – 3 m³ of timber can be given to a family based on their requirement.

People of all the villages wished that the timber distribution should take place once every 10 years instead of the current practice of distribution once every 20 years. Secondly most of the villagers agreed that since the government order against felling of green trees for timber, the supply and distribution of timber has reduced

significantly. In case of timber requirement for construction purposes the villagers have to buy it from the local market or depots.

4.13.6 Forest Fire

Forest fires were found to be the most frequent phenomenon during the interviews with the respondents in sample villages. Almost all respondents in all villages selected for the study agreed that the forest fires take place almost every year. The respondents also agreed that they inform the department of the fires in the forest and actively help the Forest Department officials in extinguishing the fire.

Respondents in Khali village of Solan and Mandor Ghat in Shimla were of the view that the Forest Department should clear the needles of pine trees from forest on regular basis as they are highly combustible and a major cause of fire in the forests this will not only reduce the instances of forest fires but also provide employment and hence income generating opportunities to the local villagers.

Villagers in Chhota Kamba and Bara Kamba dread about the fire as after the forest fires usually follow landslides and there are large boulders on the uphill side and any landslide may result in catastrophe in the village.

Almost all the villagers in 11 villages have witnessed forest fire in recent past (November – December 2017) and they were of the view that the forest fires are generally caused either intentionally or by accident and spreads rapidly because of the presence of dry pine leaves in the forest area. If the local community members are engaged in clearing the pine leaves this will not only prevent frequent forest fires but also provide employment and income generating opportunity for the community members thus help in reducing out migration in search of employment as local labour which is a regular practice in these villages.

Pine trees are a major cause of forest fires in the hills during summer season as the tree sheds its needles in this period and these needles are highly combustible. The fires are facilitated by burning of crop stubble and ignorant people who would not hesitate to light a fire near the pine leaves. One suggestion from the participant was to clear the pine leaves by engaging the local villagers which would generate employment for the villagers.

Another suggestion for controlling the forest fire was to build small tanks/ ponds in the forest area which are fed by the natural drains and rainfall as the water collected in these tanks could be used not only for extinguishing fire but would also help in irrigating the new plantations and also improve the ground water situation in the areas at slopes where water would normally run-off without recharging the ground water. Participants suggested that the awareness campaigns to prevent fire should be conducted for the local villagers

4.13.7 Lantana Menace

The Consultations' participants shared that the forest fires and transgressing of forest areas by lantana was major problems that they are also facing. The CPD discussed about the methods adopted by Forest department to clear lantana by cutting the roots of the plant during February and March as during this time the lantana plant does not grow and the wood may be used by the villagers as fuel wood.

The participants opined that the seeds of the plant often re-germinate in favorable season and the problem would not be resolved alternatively, if the plant is uprooted during July – August when there is moisture in the soil instead of cutting the root the problem can be solved. One of the participant suggested that after the removal of the lantana plant if Aloe Vera is planted in the affected areas the lantana would not grow again in that area. The CPD suggested that the trials of this technique may be carried out to see the impact of Aloe Vera in controlling lantana on a pilot basis.

4.13.8 Eco-Tourism

Eco-tourism has a huge potential in the villages surveyed as almost all the villages under study had some religious or cultural places nearby which often attracted tourists from other parts of the state and country to visit these places. A rest house, proper motor roads and pedestrian paths for trekking can go a long way in developing these villages as tourist hubs. For example near Shankar Dera village there is a temple Shikari Mata Mandir and Shiv Mandir which are famous sites for religious tourism and every year hundreds of tourists and pilgrims visit these sites. Paid tourist services and promotion and development of these sites and amenities in the village can prove to be a boon for the livelihood of the villagers and economy of the region. Similarly, Bada Kamba in Kinnaur is a village enroute a trekking site to Shorang valley and Rupi wild life, with a potential of being developed as an eco-tourism hub.

4.13.9 Conflict Resolution and Grievance Redressal

The villagers in the study villages reported not having conflict with other members of the society or the Forest Department officials. However some isolated conflicts were highlighted in Shankar Dera and Chhota Kamba villages when the transhumants or nomads having large flock of sheep and goats come to stay in the forests near their villages, these nomads have permits to stay in the forest but sometimes they overstay and allow their sheeps and goats to graze in the agricultural fields of the villagers which gives rise to the conflict like situation but this is often resolved amicably by discussions between the Panchayat members of the village and nomadic groups.

Villagers in almost all the villages selected as sample for the study were not aware of any formal mechanism of grievance redressal however a few educated and active members stated that in case of any complaints they call the officials of the concerned department and inform them of their complaints and this often resolves their problems. But they are not aware of any mechanism to escalate the complaints.

4.13.10Expectations of villagers

4.13.10.1 Plantations and Nursery

Almost all the villagers interviewed in the Manlog Badog and Khali villages in Solan, Mador Ghat village in Shimla and Kanda ghai village in Kullu stated that if the Forest Department plants Dadu in plantations and also provide the seedlings through nursery it would be very beneficial for them as the fruit is often collected and seeds 'Anardana' are sold for the processing as juice, jams, sauce and sometimes medicine.

Villagers in Kanda ghai and in Kinnaur were of the view that if the Forest Department is able to provide them with the saplings of good variety Apples and walnuts through nurseries it would be very beneficial for them.

4.13.10.2 Participation

Almost all the respondents stated that the Forest Department should engage the local villagers in nursery and plantation operations and their suggestions must also be sought in selection and deciding the species prior to taking up plantations in forests. Engaging village youth directly or through formation of societies will help generate employment opportunities and thus reduce out-migration of the villagers.

4.13.10.3 Fire Warning and Control Systems

A few respondents suggested that advance fire warning and control systems be deployed so as to prevent frequent occurrences of forest fires in the forests near study villages.

4.13.10.4 Irrigation Facilities

In villages like Khali in Solan, Kanda Ghai in Kullu, Chhota Kamba and Bara Kamba in Kinnaur irrigation facilities were not available with in the village. Agriculture being the primary source of livelihood for most of the respondents in these villages is dependent on the rainfall. To ensure improved livelihood in these villages check dams and ponds may be developed which can store water necessary for irrigation in dry seasons.

4.13.10.5 Slope Stabilization and Protection against Landslide

Landslide is a major risk in Chhota Kamba and Bara Kamba villages of Kinnaur as there are large boulders uphill and placed in a very unstable terrain. In case they come down it will cause heavy loss of life and property in the village. In chhota kamba village in particular almost all the respondents were of the view that protection against these boulders should be the top priority before taking up any activity in the region.

4.13.10.6 Protection from Wild Animals

Wild animals particularly monkeys were stated to be menace in all the villages visited for study as they damage the fruit crops causing huge loss to the villagers. In wildlife regions bears and boars also cause severe damage to the crops. Fencing around the inhabited areas may prevent the wild animals from entering the village.

4.14 Institutional Assessment

4.14.1 Forest-specific village institutions

The externally supported projects and state-wide programs of participatory/ joint forest management, launched by the HPFD in 1998 encouraged the direct involvement of the communities in protection, conservation and maintenance of forests. Institutions set up under these projects include:

- Village Forest Development Committees (VFDCs) developed under DFID HP Forestry Project;
- Village Development Committees (VDCs) under the Indo-German Changar Project (IGCP) and the Integrated Watershed Development Project (IWDP);
- ➤ Village Eco-Development Committees (VEDCs) under the Great Himalayan National Park and other Protected Areas;
- ➤ Village Forest Development Societies (VFDSs) or Sanjhi Van Samiti (SVS) formed under Sanjhi Van Yojna.

Of these institutions, VFDSs are registered under the Societies Registration Act; while VFDCs, VDCs and VEDCs are registered by the District Forest Officer. Except for IWDP, where watershed was the unit for a VDC, a Gram Panchayat is generally the unit. VFDCs, VFDSs, VEDCs and VDCs all have a general 'house' membership and an executive.

All these village level institutions came into existence, initially on an ad hoc basis under different projects and state/ national programs, and were formed according to the different mandates and activities within each project/ program. In the case of the VFDCs, although care was taken to ensure they represent all strata of the society, their formulation and functioning show limited flexibility and initiative to act on their own. As the structural organisation of the various community institutions was primarily project driven, there seems to be little uniformity across the state, and there is a lack of strategic thinking within the HPFD on their roles and relationships. However, village forest institutions are involved at some places in forest protection, support to forest department for control of forest fires and grazing, TD rights, nursery plantations, etc.

Initially the Forest Guards were made the member secretary of these institutions. This was to ensure effective management of funds, record-keeping and to equip community members to take over responsibilities. Presently most member secretaries of new VDCs are from the communities themselves, though in many cases local forest guard continues to be the co-signatory for financial management.

There are some examples of some all women Forest Protection Committees in Himachal Pradesh. To cite a few, a) Mahila Van Evam Paryavaran Suraksha Samithi of Amboya Gram Pachayat and b) Van Vikas Evam Surakshan Samithi of Khoronwal (Bhud) Gram Panchayat stand out as excellent JFMCs.

4.14.2 The Gram Panchayat (GP)

The GP has played a rather indecisive role in forest development and management. Although an organised and legally acceptable body, its functions and priorities are essentially for local self-governance and although as per Eleventh Schedule of the Indian Constitution (Article 243 G) the GP has the power to prepare plans and implement schemes related to Social and Farm Forestry as well as management of minor forest produce, this power has remained contested. In HP, GPs were previously given the power to issue transit permits and receive royalty on MFPs, but subsequently the powers were reversed and the issuance of permits was handed back to the forest department. The only function that the GP continues to perform is related to certifying TD applications of individual households, subject to approval of the HPFD. Their participation and 'ownership' in other Forest Department initiatives is low.

4.14.3 The Government of HP

The GoHP sets policy and strategic direction for the forest sector, in line with state-wide priorities and national obligations. For example the current 'Vision 2020' exercise, envisioned for the Government of HP, incorporates the HP Forest Department's 'Vision' and will contribute to the overall national 'Vision'.

4.14.4 HP Forest Department and State Forest Development Corporation

HPFD has recent experience of implementing several externally funded projects and has accumulated project implementation experience on managing social risks and impacts and has also developed certain capacities on social management. However, such capacities are not department-wide and are limited to certain locations and divisions. The department has a dedicated wing related to JFM/PFM, which exclusively manages issues related to community participation.

4.14.5 Current Capacity

The Forest Department has traditionally performed a policing role for protection and management of forest and with shifts in national/ state forest policies in the last 2-3 decades it has now started working with communities. Whereas certain rights like access to fuel wood, fodder, NTFPs and timber for house construction, of communities settled near the forests were always recognized, they were also expected to help the department in exigencies like control of forest fires.

In 1990s due to the mandate to formalize relationship with the communities, mainly for implementing the JFM Policy, Village Forest Development Committees (VFDCs) were formed for treating communities as co- managers of forests. The Department started formal dialogue with the communities to involve them in the planning process of forest management also and has occasionally involved communities in planning mainly for developing FDA micro-plans (not for preparation of forest working plans). However, this participation has been selective, with little role in the actual management of forests *per se*.

Forest department in Himachal Pradesh has been more progressive in comparision to other states, in terms of recognizing the customary privilege of several forest fringe communities over forest resources. While policies are in place to promote participation and community co- management, low departmental capacities and willingness to engage with communities is reflected in the status of many community institutions. Of the total 1475 JFMCs formed till April 2014, only 963 were functional under 36 Forest Development Authorities- suggesting their weak mobilization and gradual alienation. Also the state has so far been able to bring only a small portion of the forest area under the JFMCs.

Simultaneously lady forest guards have been recruited to have a better dialogue with the female members of the community who at times are not comfortable with the male forest department staff.

4.14.6 Current gaps in Capacities

During the meetings and discussions with the HPFD and the project stakeholders certain gaps were identified in the capacity of HPFD to address the social issues; these are presented below:

- ➤ Low skills in social mobilization and undertaking community development works
- Lack of training of the field staff in participatory approaches
- Low willingness of the field staff to shift from a policing to a co-management role and treat communities as equal stakeholders
- ➤ Deeply embedded mental models regarding communities and their contribution to conversation and forest protection

➤ Due to departmental workload, forest staff is unable to devote much time to interactions with the community members.

4.14.7 Addressing the Gaps

The following are proposed to address these gaps:

- ➤ Engaging dedicated locally available educated community facilitators (including female staff), who would have greater access to women community members and skills for engaging with the communities.
- ➤ Train the field and HPFD staff in the participatory tools and techniques for eliciting participation, assessing needs, suggesting alternatives and providing local and community preferred solutions.

Since this needs a long term change management process, in the short term, within the HPFFP, the PIU will need to employ persons with social and community development skills to augment its capacities. This should be in the form of recruiting a Social Development and Safeguards Specialist in the PIU, duly supported in the field by Community Facilitators. This will be in addition to capacity building support to be provided to the key PIU, Range level and field staff on social development and management issues.

To further capacitate the forest department to work closely with communities, the project will develop a detailed stakeholder engagement strategy to enhance acceptance and define rules of engagement with the community and hence improve social sustainability of the project. This exercise will involve:

- mapping the existing level of community engagement,
- evaluating the role of forest department in promoting partnerships with communities to understand operational challenges and policy gaps,
- preparing user-friendly manual on rights, obligations and duties of stakeholders and community institutions on PFM to develop role clarity on both the demand and supply side
- recommending institutional mechanism to enhance stakeholder engagement.

5. Project Impacts and Risks

5.1 Impacts due to Project Interventions

The likely social impacts that could occur due to each project activity are listed below:

Table 61: Likely Social Impacts due to Project Interventions

Component	Activities	Timing of	Stakeholder/	Anticipated	Social Impacts
		Implementation	Implementer	Output	
1. Institutional Reform and Capacity Building for Integrated Watershed Management (IWM) and Improved Forest Management a) Building consensus for integrated watershed management b) Institutional reform and strengthening of the Himachal Pradesh Forest Department,	Technical assistance (TA)	Throughout the five years of project implementation	HPFD	Increased capacity to participate in project activities	May not have significant adverse social impacts.
	Training	Throughout the five years of project implementation, except for the last year	HPFD	Effectively implement project interventions	Capacity building to include communities and community institutions. May not have significant adverse social impacts.
	Stakeholder engagement to build consensus for reforms	Throughout the five years of project implementation	HPFD	Enhanced capacity of the stakeholders to participate more effectively in project activities.	Stakeholder engagement to include vulnerable sections of the target communities. May not have significant adverse social impacts.
2. Improved Investments in Participatory and Sustainable Land and Water Management a) Improved planning for participatory and	Establish and/or strengthen JFMCs	Throughout the five years of project implementation	HPFD	Effectively implement project interventions	May not have significant adverse social impacts.

Government of Himachal Pradesh Himachal Pradesh Forests for Prosperity Project (The World Bank assisted) Social Assessment and Management Framework – Final Report

Component	Activities	Timing of	Stakeholder/	Anticipated	Social Impacts
		Implementation	Implementer	Output	_
sustainable land and water				_	
management b)					
Implementation of					
participatory and					
sustainable land and water					
management investments					
(Soil and water					
conservation measures,					
Development of high-					
quality seed stands,					
Nursery development,					
Plantation management,					
Pasture management and					
Forest fire prevention and					
suppression)					
	Increased participation of women and	Throughout the five	HPFD	Enhanced capacity of	May not have significant adverse social impacts.
	youth, through training (e.g., forest	years of project		the stakeholders to	
	management, administration)	implementation		participate more	
				effectively in project	
				activities and equitable	
				distribution of project	
				benefits	

Component	Activities	Timing of Implementation	Stakeholder/ Implementer	Anticipated Output	Social Impacts
	Exposure visits	During 1st, 2nd and 3rd year of project implementation	HPFD	Enhanced capacity of the stakeholders to participate more effectively in project activities.	May not have significant adverse social impacts.
	HPFD and JFMCs to develop comprehensive site-specific management plans and implement all CCAT plan treatments in selected ranges	From 2 nd year of project implementation	HPFD/ JFMCs	Improved forest area/ density	Through development of CCAT plans may not have any significant adverse social impacts, the implementation of these will likely have some impacts.
	Seed stands	During 2 nd year of implementation of project	HPFD	Availability of quality seeds	Groups of healthy trees are marked as seed stands for seeds for nurseries. Each of these seed stands could be about 10 ha. (one beat) and will possibly be fenced. This will involve restrictions on movement of community and cattle for grazing in the seed stand areas and have an impact on their livelihoods
	Nurseries	During 1st year of implementation of project	HPFD	Improved seedlings	Though no new nurseries are planned under this component, to expand and strengthen the existing nurseries, land may be required. This could be mostly forest land, as these nurseries are in forest land. Some parcels of forest land is unsettled under FRA and some evictions of encroachers are underway and being monitored by the HP High Court. Such kind of land under disputes to be avoided.
	Plantations	Throughout the five years of project implementation	HPFD	Increase in forest area/density	As per Forest Department, there are encroachments of forest lands. Currently, the Honorable High Court is monitoring the clearing of encroachments (mostly orchards) on a monthly basis. The communities dependent on forests wants to raise fruit bearing trees for livelihoods, while the forest department would prefer to choose other species. Communities stake in choice of species and the diminishing interest in conservation due to reducing stake is a matter of concern.

Component	Activities	Timing of Implementation	Stakeholder/ Implementer	Anticipated Output	Social Impacts
	Pastures	Throughout the five years of project implementation	HPFD	Enhanced fodder availability	Transhumants/ Nomads from Kinnaur and Rampur of Shimla come down during winter seasons and move up during summer season. This component will involve temporary restrictions (for a few years) on pastures to be conserved and hence restrict the movement of transhumants in these pastures and may possibly deny access to these pastures under improvement. The forest department officials cite that the transhumants/ nomads bring along some invasive species into these pastures impacting the quality of forests and its bio-diversity. Resource conflicts may arise among communities sharing pastures and may need to be managed.
	Fire suppression	Throughout the five years of project implementation	HPFD	Less incidents of fire	Communities play a significant role in detecting, informing forest department and extinguishing the forest fires. Forest guards too seek the assistance of villagers in putting off fires. Infrastructure such as watch towers, forest fire lines, etc. are developed by forest department within the forest, using forest land. Community engagement and formalizing community role in these activities is critical due to gradual alienation of communities from the forest and its management.
	Soil and water conservation e.g., check dams	Throughout the five years of project implementation	HPFD	Increase in forest area/density	Land may be required for building the soil and water conservation infrastructure. As per Forest Department, there are encroachments of forest lands. Currently, the Honorable High Court is monitoring the clearing of encroachments (mostly orchards) on a monthly basis. The role of community in design and implementation of these soil and water conservation measures will improve participation of communities in forest management.
3) Strengthened and Inclusive Value Chains for NTFPs and Other Commodities	Technical assistance for regulatory/ operational review of existing NTFP management framework (permits/fees/etc.)	During 1st year of project implementation	HPFD/ Consultants	Ease and transparency in collection and management of NTFP.	May not have significant adverse social impacts.

Component	Activities	Timing of Implementation	Stakeholder/ Implementer	Anticipated Output	Social Impacts
a) Creating enhanced market opportunities for NTFPs and other commodities, b) Increasing sustainable collection/production and linking producers to markets					
	Detailed NTFP value chain and management analysis to identify bottlenecks and constraints to increased investment	During 1st year of project implementation	HPFD/ Consultants	Increased investments and value addition to NTFP.	The role of community institutions in preparing these plans and in implementing them is a matter of concern. Forest Management Committees to be part of this, but not all forest areas have these committees. Policy bottlenecks to community participation in NTFP production. Reduced community stake in these can lead to diminishing interest in conservation.
	Support NTFP collectors and other commodity producers to self-organize into Community User Groups and form Productive alliances;	Throughout the five years of project implementation	HPFD/ Consultants	Better and organized Community User Groups (CUGs)	Stakeholder engagement and capacity building of forest department to ensure formation of inclusive groups with equitable opportunities and spread of benefits among all CUGs
	Provide training on sustainable harvesting, climate-smart production and value addition techniques and basic business, leadership, and organizational development skills;	Throughout the five years of project implementation	HPFD/ Consultants	Professional NTFP management by collectors and processers	May not have significant adverse social impacts.
	Provide TA to help CUGs to identify private sector partners (e.g., processors, retailers) and develop and implement sustainable business plans that incorporate market linkages to supply these partners with primary or lightly processed commodities;	Throughout the five years of project implementation	HPFD/ Consultants	Better price realization	Private sector players, aggregators may need to be oriented on socio- cultural sensitivies, especially of indigenous communities.
	Finance eligible investments (including e.g., basic processing equipment; certification by established industry standards, such as organic and fair trade; processing centers) as identified in these business plans through a competitive matching grants scheme.	Throughout the five years of project implementation	HPFD	Increased sustained yield and shelf life	For building infrastructure for processing and preservation needs land. Indigenous knowledge in preservation needs to be harnessed and encouraged. Role of community in choice of technology is a matter of concern and role of women is a matter of concern. For building infrastructure for processing and preservation

info@samajvikas.org cemt@cemt.in 135

Component	Activities	Timing of	Stakeholder/	Anticipated	Social Impacts
		Implementation	Implementer	Output	
					needs land. Indigenous knowledge in preservation needs to be harnessed and encouraged. May not have significant adverse social impacts.
4) Institutional Coordination and Project Management a) Institutional coordination b) Project management	Human Resources, administration, equipment, furnishings, etc.	Throughout the five years of project implementation	HPFD	Effectively implement project interventions	May not have significant adverse social impacts.

5.2 Project Risks and Mitigation Measures

Table 62: Project Risks and Mitigation Measures

Likely Social Risks	Mitigation Measures
Land under disputes (FRA, etc.) may be used for project facilities	A Screening format provided to avoid this risk in the planning stage itself.
Vulnerable groups, women and tribals may be excluded from project activities, training and capacity building activities.	A Tribal Development Framework, Vulnerables Inclusion Strategy and a Gender Action Plan has been prepared to check this risk in the planning stage itself. Monitoring indicators developed for the project will track this risk
People from project area may not respond to the project activities and may not participate in the project as they may not understand the social development dimensions.	A strategy for inclusion and participation is provided to mitigate this risk in the planning stage itself. Awareness generation and mobilization strategy provided in the TDF to ensure participation of the vulnerable tribal women and men. Project design promotes community participation in forestry operations to engage community stakeholders. Stakeholder engagement roadmap to be developed under the project to create awareness within communities about rights/ entitlements and define rules of engagement. A detailed capacity building strategy (involving the communities, community institutions as well as forest department) and budget provided to address this risk.

The project stakeholders may not be able to understand their roles related to social issues.	A detailed capacity building strategy and budget provided to address this risk. Project would deploy community facilitators in the field to create awareness about roles and responsibilities. Monitoring mechanism developed for the project are to be adapted to track this risk
HPFD capacity issues with regard to people management and community mobilization may affect project outcomes.	Trained community facilitators to be deployed for community mobilization to address this risk during implementation. Social Safeguards and Gender and Social Development Specialists in the SPMU supported by field offices will address this risk during planning and implementation. Overall project implementation strategy addresses this risk by facilitating an institutional reform process. A detailed capacity building strategy and budget provided to address this risk.
Grievance of project key stakeholders may not be addressed properly.	A robust Grievance Redressal Mechanism is proposed to be set up to address this risk during planning and implementation. Options to reach The World Bank GRM with regard to grievances is provided to check this risk at all times. The Social Focal Points in SPMU, Divisional Social Consultants and Community Facilitators at the beat within a Range are proposed to monitor this risk during planning and implementation.
Project information may not reach the key stakeholders, thus making them disinterested in participating.	A detailed IEC campaign is proposed before project activities take off to address this risk during design stage itself. The Social Specialists in SPMU and Community Facilitators responsible for social mobilization are proposed to address this risk during planning and implementation. Culturally appropriate IEC material to be developed aimed at the indigenous communities
CUGs of NTFP collectors and agriculture producers (Esoecially women only groups) may get excluded from the competitive financing process owing to lack of exposure and capacities	Female Community Facilitators deployed under the project to work towards supporting weak groups through formal trainings, mobilization and handholding support

6. Social Management Framework

6.1 Introduction

This Social Management Framework is prepared based on the assessment of social impacts and risks to guide the screening and preparation of plans and strategies as appropriate for the project interventions to be taken up under the project. The SMF would apply to all project interventions under HPFFP at locations identified at this stage and at locations identified during project implementation. The objectives of this SMF are to:

- a) develop a framework with processes and procedures for the project
- b) enhance institutional capacity of the HPFFP in implementation of social management plans
- c) establish mechanism and processes for grievances redressal and monitoring and evaluation, etc.

This SMF comprises the following:

- ➤ A Screening format for the project interventions. The same is annexed to this report
- ➤ A Resettlement Policy Framework
- > Grievance Redressal Mechanism
- Social Inclusion Strategy
- Citizen Engagement Framework
- Gender Strategy
- ➤ Tribal Development Framework (Indigenous People's Development Framework. This is developed as a separate document.
- Monitoring Strategy
- Capacity Building Strategy
- Budget

6.2 Principles of the SMF

The broad principles of this Social Management Framework are described below:

- ➤ For any requirement of land for sub-projects under HPFFP, the GoHP will use only government land, which is free of encroachments and disputes. Land under court cases or under the purview of FRA (unsettled claims) will not be used. To the extent possible, GoHP will use its own existing land/ premises/ buildings and/ or rented premises/ buildings for project purposes (such as raising nurseries, new plantation sites, storage of NTFP). All compulsory acquisition of private land is to be completely avoided by exploring all viable alternative project designs and adopting a screening approach.
- ➤ Endeavour to obtain all private land required for the project interventions on a voluntary basis i.e. either through: i) lease, ii) voluntary donations.

- Work closely, share information, consult and involve project beneficiaries in identifying social issues likely to arise during project implementation;
- Ascertain broad community support based on free, prior and informed consent (FPIC) through consultation with all communities, and in particular while preparing Tribal development plans.
- ➤ Pay special attention to all vulnerables, women and tribals and ensure their participation in all project planning, implementation and other institutional processes.
- ➤ Ensure that project does not involve any kind of activities involving child labor.
- ➤ Ensure equal opportunities and wage to women/female workers as per applicable acts.
- ➤ Give preference to local communities for labour work related to forestry operations like raising and development of nurseries, preparation of plantation sites, etc.

6.3 Screening for Adverse Social Impacts

All project interventions will be screened for land requirement. For this purpose a screening format is annexed to this report. All land for planned interventions such as nurseries, plantation, storage facilities, etc. be undertaken on:

- a. existing land available with HPFD;
- b. government land accessed through departmental transfer
- c. land taken on lease under relevant legal provisions or
- d. through voluntary land donation by beneficiaries

7. Resettlement Policy Framework

7.1 Introduction

This Resettlement Policy Framework for this Himachal Pradesh Forests for Prosperity Project (HPFFP) is drawn in accordance with generally accepted and practiced principles of resettlement and rehabilitation. The framework comprises of the following sections:

- ➤ Land Requirement
- Usual Practice
- Options for HPFFP
- Categories of PAFs
- Legal Framework (described in detail in Part 1, Social Assessment)
- Entitlement Matrix
- Grievance Redress
- Consultation

The framework has been developed as enunciated in the national legislation-Right to Fair Compensation and Transparency in Land Acquisition and Rehabilitation and Resettlement Act 2013. This framework will act as guide for mitigating the social impacts that would be triggered by the sub-projects under HPFFP and that are currently foreseen to be related to adverse impacts on livelihoods of the forest dependent communities, including possible restrictions on seasonal access to forest resources for transhumant communities of the state.

7.1.1 Objective of RPF

The primary objective of this RPF is to provide better standard of living to the project affected families or at least restore their standard of living to that of before project. If the affected persons belong to Below Poverty Line (BPL) category before the project, then this RPF aims to bring them Above Poverty Line (APL). The other objectives of this RPF are to:

- Avoid or minimize involuntary resettlement where feasible, exploring all viable alternative project designs.
- Assist displaced persons in improving their former living standards, income earning capacity, and production levels, or at least in restoring them.
- Encourage community participation in planning and implementing resettlement.
- Provide assistance to affected people regardless of the legality of land tenure.

The following guidelines will be followed during implementation:

- Compensation and Rehabilitation assistance will be paid before displacement.
- Compensation will be at replacement cost.
- No civil works will be initiated unless compensation for land and assets and rehabilitation assistance is provided to all eligible PAFs.
- Livelihood assistance will be given in form of Income Generation Assets (IGA) to be chosen by the PAFs.
- HPFFP will provide information to the PAFs on alternative income generation activities suitable for the area and help them in making choices.
- The HPFFP will monitor the provision of the IGA monitor through appointed Consultants.
- The Consultants will monitor the performance of the IGA and report to HPFFP.

7.2 Land Requirement

HPFPP proposes various types of sub-projects to be taken up. These sub-projects will require land depending on their type and size. The land requirement would vary across sub-projects and locations. The type and size of the sub-projects will dictate the land requirement. The extent of land required would vary across the sub-projects and can't be estimated at this stage.

7.3 Usual Practice

GoHP is implementing similar projects on a regular basis, which require land, of which the ownership could be either public or private. Accessing public land is easier, but arrangements will have to be made for securing privately owned land. When additional lands are required, GoHP, as a first step, would try and secure public lands under different tenure systems where feasible and available. If private lands are required, then GoHP would resort to, either through voluntary donation or by outright direct purchase or through using RFCTLARAR Act.

7.4 Options for HPFFP

For any requirement of land for sub-projects under HPFFP, the GoHP will use only government land, which is free of encroachments and disputes. Land under court cases and under the purview of FRA (unsettled claims) will not be used. GoHP will use its own existing land/ premises/ buildings and/ or rented premises/ buildings for project purposes such as raising nurseries, new plantation sites, and storage of NTFP.

However, keeping in mind any eventuality, the following options are proposed for procuring/ acquiring private lands:

1. Land acquisition using LA Act 2013

- 2. Direct Purchase
- 3. Land Donation

7.4.1 Option 1: Land Acquisition using LA Act 2013

Process of Land Acquisition

Preliminary notification under LA

- The process of land acquisition differs from state to state, as per the state rules; a more common process is described here.
- Notification u/s 11(1) by District Collector authorizing the Land Acquisition Officer for acquiring the lands.
- Publication in GP / Locality / News Papers / Gazette / Website.
- Conduct of Grama Sabha u/s 11(2) explaining the contents of the notification, provision for filing objections within 60 days duly fixing the hearing date and information to landowners regarding conduct of preliminary survey requesting them to be present in conduct of survey and informing the prohibitive clause imposed on alienation of lands covered by notification.
- Notice calling for objections on the preliminary notification on the area and suitability of land proposed to be acquired, justification offered for public purpose, the findings of the Social Assessment report.
- 60 days for filing objections and on enquiry by Land Acquisition officer, District Collector to take decision.
- Conduct of Socio Economic Survey to identify the affected families having lands and immovable properties, identifying livelihood losers' dependence on the lands being acquired. Ex: Tenants, Agriculture labour, NTFP Collectors, Pastoral communities, etc., and preparing a draft RAP
- To enumerate the amenities and infra structural facilities which are affected are likely to be affected due to acquisition and details of common property resources, etc.
- Preparation of draft RAP in consultation with the affected families and place it before Gram Panchayat for conduct of Public Hearing. The suggested formats for RAP and ARAP are annexed to this report.
- The draft RAP and a specific report on the claims and objections raised in the public hearing to be placed before R&R Committee to be reviewed by the District Collector and submitted R&R Committee RAP duly incorporating the suggestions and views of the R&R Committee.
- The R&R Committee approve the RAP and cause publication in Locality and website.

Publication of declaration under LA

• The District Collector to make publication of declaration along with summery of RAP and declaration of an area identified as the resettlement area in cases of displacement of PAFs

- Publication in Locality / Gazette / News Papers / Website
- Award Enquiry notices to be issued, conduct enquiry into the ownership, apportionment and interests if any.

Compensation to land owners

- Market value as specified in the Indian Stamp Act, 1899 for the registration
 of sale deeds or average sale price for similar type of lands situated in the
 vicinity area.
- Average sale price will be arrived at duly taking the 3 years sales statistics immediately preceding 3 years of the date of 11(1) notification, arrange similar type lands into separate blocks viz., Agricultural Dry / Wet Lands, non-agriculture and workout per acre values, arrange in descending order of the value of the land, take 50% of the highest sales and calculate the average.
- Basic value or average sale value whichever is high is the Market Value.
- The Market Value to be multiplied with the factor for the state
- Calculate structure value/tree value duly evaluated by experts of the Department.
- Add solatium of 100% on Market value + value of the structure / trees
- 12% Additional Market Value on Market Value is payable from the date of 11(1) notification till passing of the Award.
- Damages if any during survey or due to any other cause be paid additionally.
- Dissatisfied with the Market Value fixed by Land Acquisition Officer, the interested persons may make an application for Negotiations before the District Collector and on merits the District Collector may propose a consent value for which the R&R Committee may approve.

7.4.2 Option 2: Direct Purchase

. This method can be adopted for public purposes, on a willing seller and willing buyer basis, to avoid delays. However, in any case, the amount paid under Direct Purchase cannot be less than that of under using LA Act 2013 (including compensation, R&R benefits, tax benefits, etc.).

7.4.3 Option 3: Voluntary Land Donation

HPFPP will completely avoid or at least minimize land acquisition. Whenever there is additional land requirement, HPFPP will interact with the land owners and facilitate voluntary donation of land required for taking up sub-projects under the project. This use of voluntary donation option will be limited to small plots of land for buildings and other facilities. Under no circumstances, the titleholder/ encroacher will be subjected to any pressure, directly or indirectly, to part with the land. These actions are expected to minimize adverse impacts on

the local population and help in project benefits reaching all sections of community.

HPFPP will ensure that the process of voluntary donation of land will be meticulously documented at all levels to avoid confusions, misunderstandings, litigations, etc. at a later stage. A format for this purpose is enclosed in the Annexures. This process will be taken up mainly at three levels as described below:

Table 63: Process of voluntary donation of land

Level	Process	Output	Responsibility
GP/ Village Level	Based on the revenue survey, lands will be identified and the list of titleholders/ encroachers will be prepared. This will be done by GP with the help of IA and GP Secretary. GP motivates the title holders and encroachers for voluntary land donation required for the project. The PIU will help in this process and will document the willingness to donate land by the titleholders and encroachers in the presence of the Sarpanch and GP Secretary in the form of a Willingness Letter. The list of such persons will be displayed at the Gram Panchayat Office.	Willingness Letters	Sarpanch, GP, Range Office, GP Secretary, and affected persons (Titleholder/ Encroachers)
Block Level	BDO or concerned Revenue Official surveys the land and demarcates the extent of area required. The survey will identify if the land is public, private or encroachment. Based on the survey, maps are prepared. The entire process will be carried out along with GP, PIU, and GP Secretary. The maps will be signed by Sarpanch, GP Secretary, and concerned Revenue Officer.	Survey map signed by relevant persons indicating the extent of land required.	BDO, Surveyor, Sarpanch, GP Secretary, Range Office
District Level	Formalize relinquishment of land rights where concerned local people voluntarily donate their private land for the project for public purpose.	Effect Changes in Land Revenue Records	District Collector, BDO. DFO Office

Original copies of all documentation of voluntary donation of land will be kept with the Block Development Officer with copies at GP. Complete documentation along with a copy of the final document will be sent to PIU for records and for inspection at a later date. In order to make this process transparent, the following rules are prescribed:

- The Titleholder/ Encroacher should not belong to the vulnerable sections/ BPL category.
- Identification of vulnerable PAPs: The vulnerability shall be assessed by the project based on the census of the affected persons. The following categories of PAFs/ PAPs shall be entitled for support as vulnerable groups:
 - BPL households (with a valid proof), as per the State poverty line for rural areas;
 - o BPL households without a proof of the same and belonging to the following social categories (i) Women headed households with women as sole earner

- (ii) Scheduled Caste/Scheduled Tribe and (iii) Handicapped person, and is subject to any of the following impacts;
 - Loses land holding,
- Loses shelter and
- Loses source of livelihood.
- The project provides for targeted support/ assistance to the vulnerable groups.
- The Titleholder/ Encroacher should be holding more than the minimum prescribed land, i.e., 1 hectare of wet land and 2 hectares of dry land after donation.
- The impacts must be minor. The voluntary donation should not be more than 10 percent of the area of that particular holding of the Titleholder/ Encroacher in that category of land (dry, wet or commercial/ residential). This should not require any physical relocation of the Titleholder/ Encroacher. The land donated should not be more than 1 acre in case of dry land, 0.5 acre in case of wet land and 0.25 acre in case of commercial/ residential.
- The land must be jointly identified by the GP, Range Office and PIU representative or other implementing agencies or project authorities. However the project technical authorities should ensure that the land is appropriate for sub-project purposes and that the sub-project will not invite any adverse social, health, environmental, safety, etc. related impacts by procuring this land.
- The land in question must be free of squatters, encroachers, or other claims or encumbrances.
- Buildings/structures on the land donated is not accepted as donation.
- Verification of the voluntary nature of land donations must be obtained from each of the persons donating land. This should be in the form of notarized witnessed statements.
- In case of any loss of income or physical displacement is envisaged, verification of voluntary acceptance of community devised migratory measures must be obtained from those expected to be adversely affected.
- The land title must be vested in the GP and appropriate guarantees of public access to services must be given by the private titleholder.
- The Titleholder/ Encroacher donating land should be provided access on priority basis, subject to eligibility, to the Government housing/ poverty reduction/ livelihoods/ etc. programs operating in the area.
- The Titleholder/ Encroacher donating land should made to understand that they will have equal access to the infrastructure built on the donated land like any other community member and that they cannot claim for any priority treatment.
- Grievance Redress Mechanism must be available.
- The donations and the process followed is documented, monitored and reflected in the monitoring reports.

7.5 Compensation for Structures and other Assets

Structures: The compensation for structures includes market price of the assets to build/ procure at replacement asset, or to repair, if affected partially. In determining the replacement cost, depreciation of the asset and the value of salvage materials are not taken into account. Compensation for trees, crops and other assets will be based on the replacement value using existing prices prepared by relevant agencies, taking into account their productivity and/or local market prices. An addition of 30% is added to the replacement value.

Common Property Resources: Grazing lands, places of worship, places of heritage value, sacred groves, community conserved areas, burial grounds, water points, community wells, bore wells for drinking water, roads, path ways, community meeting places, wood lots, etc. are categorized under this heading. If temporary or permanent restrictions are placed on these resources for the purposes of regeneration and conservation (plantations, nurseries, seed stands, pastures), these resources will either be restored to an acceptable level or alternate sites made available, at an appropriate place as agreed with the community for accessing forest resources. Community will be fully involved in their planning and replacement.

7.6 Categories and Identification of PAFs

7.6.1 Categories of Project Affected Families

The HPFD is implementing several projects similar to the sub-projects proposed under several externally aided projects in the past. From this experience, it is established that lands acquired will normally be rural agricultural lands. Taking these into account, and given that a generic framework is being developed, following broad categories of Project Affected Families (PAFs) are identified:

- 1. Titleholders with valid title including titleholders under FRA, 2006
 - a. Agricultural
 - b. Residential
 - c. Commercial
- 2. Encroachers/ Squatters with no valid title
 - a. Agricultural
 - b. Residential
 - c. Commercial
- 3. Tenants
 - a. Agricultural
 - b. Residential
 - c. Commercial

7.6.2 Cut-Off Date

For preparing a list of PAFs, a Socio-economic survey of the affected families done during the planning phase of a sub-project. The list will be appended to the sub-project DPR. This date on which the socio-economic survey is conducted will serve as the cut-off date. No additions to this list will be made unless authorized with concrete proof by the respective CF of the concerned range.

7.6.3 <u>Identification of PAFs</u>

The project proposes community participation through participation in identification of PAFs, mobilizing community in implementing RAPs (if any), and in grievance redress. The following process will be adopted to identify PAFs:

- Once the land required is identified, it is classified as either government/ forest land or encroached land and/or private land based on ownership/ rights status
- HPFD announces a cut-off date as the Base line Socio-Economic survey date for identification of affected people.
- The HPFD identifies the encroachers and titleholders, PAFs adversely impacted due to restricted access to forest resources as per the ownership status with the help of community members.
- Based on this information arrive at the number of PAFs

A detailed census based socio-economic survey will be conducted and extensive consultations will be held with the project affected families, i.e. the land losers. Each target community will be identified and differentiated on the basis of their source and level of income. The survey will focus on land and various productive assets including wages. This information will be used to determine the nature and extent of livelihood support/assistance (over and above the provision made for compensation) required to restore adequate income levels. All these measures will be taken only after consulting the affected families and wider community. This approach will help the project in achieving its objective of ensuring that no affected household becomes poorer with the intervention.

7.7 Valuation of Structures and Assets and loss of livelihoods

HPFFP shall deploy its expert in Forestry/ civil engineering as required or alternatively hire the services of government approved valuer for valuation of structures and other immovable assets, apart from assessing the loss to livelihoods from restricted access to customary entitlements. The objective of this exercise is to establish the extent of loss and estimation of replacement cost. The major tasks are as follows:

1. Measurement of affected plantations/ structure/ immovable assets

- 2. Quantification
- 3. Establishing extent of loss
- 4. Estimation of replacement cost

Measurement provides required information for valuation. For valuation the latest HPFD Schedules of Rates (SR) applicable to assets being valued need to be used. This SR provides the consolidated unit rates for different components. Details as to how such consolidated unit rates have been arrived at is also explained, generally in the respective SRs. Using the analysis as guide, the expert/valuer can arrive at the compensation value of a structure/asset. Extent of loss would be determined primarily in terms of the portion of the property affected and/or loss of income. While calculating replacement cost the following principles need to be kept in mind:

- If a structure/ asset is affected 50% or more, then consider the whole structure as affected. When a portion of the structure is affected, and if it becomes unviable for use as per the affected person, then consider the whole structure as affected.
- Do not depreciate the cost of the plantation/ structure/ asset for its age.
- Add 30% extra over and above the estimated cost to arrive at replacement value.
- Allow the PAFs to salvage and carry, for free, any materials for their use. Do include the cost of salvaged material in the replacement cost.

7.8 Entitlement Matrix

This Entitlement Matrix is developed giving various entitlements for all categories of PAFs, based on RTFCTLARR Act 2013. This Matrix can be used as a guide for designing Resettlement Action Plans for sub-projects. All the families will be entitled to two broad categories of assistance; 1) compensation for land loss; and 2) livelihood (rehabilitation) assistance for starting some income generation activity, which may include the purchase of lands, as decided by the PAF. The livelihood assistance in the matrix are rather indicative (as they are average figures), whereas, the actual assistance will relate to, at the minimum restoring, if not enhancing the pre-land loss income levels. It may also be noted that livelihood assistance figures have been worked out such as to yield an annual income of INR. 30,000 per family, an income level corresponding to the initial ladder of the Above Poverty Line. The amounts given in the Entitlement matrix are for the financial year 2014-15. After this year these amounts will be increased by 10% every year to compensate for inflation. Details related to the entitlements are presented in the matrix below.

7.8.1 Minimum R&R Entitlements under RTFCTLARR Act 2013

The following are the minimum R&R entitlements under this Act:

- 1. Subsistence allowance at INR. 3000 per month per family for 12 months
- 2. The affected families shall be entitled to: (a) Where jobs are created through the project, mandatory employment for one member per affected family or (b) Rupees 5 lakhs per family; or (c) Rupees 2000 per month per family as annuity for 20 years, with appropriate index for inflation; The option of availing (a) or (b) or (c) shall be that of the affected family
- 3. If a house is lost in rural areas, a constructed house shall be provided as per the Indira Awas Yojana specifications. If a house is lost in urban areas, a constructed house shall be provided, which will be not less than 50 sq. m. in plinth area. In either case the equivalent cost of the house may also be provided in lieu of the house as per the preference of the project affected family
- 4. One acre of land to each family in the command area, if land is acquired for an irrigation project (though irrigation projects are not foreseen in the HPFFP) if possible BUT the same shall be in lieu of Compensation
- 5. INR. 50,000 for transportation
- 6. A one-time Resettlement Allowance of INR. 50,000

7.8.2 Special Provisions for SCs and STs

In addition to the R&R package, SC/ST families will be entitled to the following additional benefits:

- 1. Land to be given to each family in every project even in the case of irrigation projects; though irrigation projects are not foreseen in the HPFFP.
- 2. One time financial assistance of INR. 50,000 per family;
- 3. Families settled outside the district shall be entitled to an additional 25% R&R benefits;
- 4. Payment of one third of the compensation amount at very outset;
- 5. Preference in relocation and resettlement in area in same compact block;
- 6. Free land for community and social gatherings;
- 7. In case of displacement, a Development Plan is to be prepared.
- 8. Continuation of reservation and other Schedule V and Schedule VI area benefits from displaced area to resettlement area.

Table 64: Entitlement Matrix

Type of Loss	Identification of Affected	Entitlement	Entitlement Details
	Households		
A. LOSS OF LAN			
1. Loss of agricultural Land	PAFs/PAPs with legal titles/rights, recognizable legal rights, usufruct and traditional titles/rights for affected land	Land-for-land or compensation in cash at replacement value	 (i) In case of partial impact on land with the remaining land economically viable for continued use, compensation in cash at replacement cost will be given. (ii) In case of loss of entire land holding, the PAPs will be entitled to: (a) Replacement land of equivalent productive potential if available and acceptable to the PAPs; OR (b) Where the location is not acceptable to the PAPs, compensation in cash for the entire land holding. (iii) In case of entire loss of productive land, PAPs will be entitled to transition allowance equivalent to the total income derived from the affected land in the last 2 years. (iv) In case of replacement land, the cost of registration, stamps, etc. will be borne by the project.
	Sharecroppers and leaseholders	Compensation in cash	(i) Sharecroppers will receive compensation for their share of the loss of crops. (ii) Leaseholders will receive compensation equivalent to the remaining part of the lease amount. (iii) Additionally, affected sharecroppers and leaseholders will receive cash assistance equivalent to 6 months of income derived from the affected land (The income from the land would be assessed by the concerned agriculture/ horticulture department.).
2. Loss of residential or commercial land	PAFs/ PAPs with legal rights/ titles, recognizable rights, or traditional rights to the affected land	Land-for-land or compensation at replacement cost	For entire loss of residential, commercial, industrial, or institutional land, or where only a part of the land is affected but the remaining land is rendered too small according to the local zoning laws: (i) Where available and feasible, PAPs will be provided replacement land of similar attributes to that is lost or compensation in cash at replacement cost. (ii) In case of replacement land, the cost of registration, stamps, etc. will be borne by the project.
			For loss of residential, commercial, industrial, or institutional land with remaining land sufficient in accordance with the zoning law and for remaining affected structure. PAPs will be entitled to compensation in cash at replacement cost.
	Tenants and leaseholders	Compensation at replacement cost	(i) For entire loss of land, the leaseholders will get an equivalent area of leased land or reimbursement for unexpired lease period.

Type of Loss	Identification of Affected Households	Entitlement	Entitlement Details
			(ii) In case of partial loss of land, leaseholders will get reimbursement for unexpired lease period for the portion of land lost. In case of replacement land, the cost of registration, stamps, etc. will be borne by the project. (iii) Tenants will receive rental allowance equivalent to 3 months rental value. Compensation will be given for any improvements done by tenants and leaseholders.
B. LOSS OF ST			
3. Loss of structures	Owners of affected structures	Compensation in cash at replacement cost	(i) For partial loss of structure and the remaining structure viable for continued use, PAPs will be entitled to compensation for the affected part of the structures calculated as per the latest prevailing HPFD Schedule of Rates (SR) without depreciation or deductions for salvaged material; and (ii) Repair allowance for improvement of the remaining structure where applicable at 10% of compensation will be calculated for the affected part of structure.
			For entire loss of structures or where there is only partial impact, but the remaining structure is rendered unviable for continued use: (i) PAPs will be entitled to compensation for the entire structure calculated as per the latest prevailing HPFD Schedule of Rates (SR) without depreciation or deductions for salvaged material; (ii) They retain the right to salvage material from demolished structure; and (iii) A lump sum transfer grant is given at the rate of INR. 3,000 for temporary, INR. 4,000 for semi-permanent, and INR. 10,000 for permanent structure for shifting household assets and other belongings to the new area.
	Tenants and leaseholders of affected structures	Rental assistance	 a) Tenants would only be given rental assistance on a case-to-case basis in the form of grant for a period of 3 months. b) Additional structures erected by tenants will also be compensated and deducted from owner's compensation amount. c) Any advance deposited by the tenants or leaseholders will be deducted from owners' total compensation package.
4. Impact on marketplace, shops, businesses, and	Titleholder (owner operator) and non-titleholder (tenant operator) losing	Relocation assistance	Affected enterprise whose commercial structure can no longer be used for commercial purpose as a result of project impact will be provided with the following options:

Type of Loss	Identification of Affected Households	Entitlement	Entitlement Details	
commercial enterprises	shops/ commercial enterprise DPS AND TREES		a) All operators will be provided cash compensation on case- to-case basis, depending upon their income, size, and location of the shop, or project-assisted relocation option where available will be based on i) Owner operator: will be given a shop in lieu of compensation, with same ownersh status. No additional compensation will be paid to him/her. ii) Tenant operator: will be provided shop on rent. For first 3 months, no rent will be charged, and after 3 months, tenants will have to pay the agreed rent. If a tenant wishes to own the same, he/she has to pay the cost of the shop. Those opting for to option will not be paid cash compensation for their structure loss. b) A lump sum transfer grant at the rate of INR. 3,000 for temporary, INR. 4,000 for semi-permanent, and INR. 10,000 for permanent structures for shifting of assets an other belongings to new area. c) The right to salvage material from demolished structure	
5. Loss of crops	Owner/operators/tenants	Compensation at	a) Advance notice to PAFs to harvest their crops	
and trees	affected	"market value"	b) In case of standing crops, cash compensation for loss of agricultural crops at current market value of mature crops based on average production c) Compensation for loss of timber trees at current market value of wood/timber or firewood, depending on the kind of tree, to be computed by concerned department d) In case of fruit trees, compensation at average fruit production to be computed by concerned department	
	ELIHOOD SOURCE			
6. Loss of primary source of income	Titleholders losing income through business	Transitional assistance	PAFs losing their business establishment due to displacement will be assisted in the form of a grant for the days of closure up to a maximum of 3 months of their income from affected business.	
	Titleholders losing income from loss of agricultural land	Assistance for income restoration	PAFs will be entitled to income restoration assistance, vocational training, and skill upgrading options as per PAFs' choice, equivalent to a maximum of INR. 10,000 per affected household. Specific income restoration measures will be decided in consultation with the people based on their needs and priorities.	
	Non-titleholders, namely squatters and encroachers, losing	Assistance for income restoration	PAFs losing their business establishment due to displacement will be assisted in the form of a grant equivalent to 3 months of their income from affected business. PAFs will be entitled to income restoration assistance, vocational training, and skill upgrading options as per PAFs' choice equivalent to a maximum of INR. 10,000 per	

Type of Loss	Identification of Affected Households	Entitlement	Entitlement Details
	primary source of income		affected household. Specific income restoration measures will be decided in consultation with the people based on their needs and priorities.
	Wage-earning employees affected in terms of loss of employment	Transitional assistance	Employees affected in terms of loss of employment due to displacement of commercial structure will be given lump sum transitional assistance equivalent to INR. 3,000/month for 3 months.
	NON-TITLEHOLDERS		
7. Encroachers	Households	No compensation for land	a) Encroachers will be given 1 month notice to remove their assets that will be affected.b) Right to salvage material from demolished structure c) Compensation for affected structures at replacement
8. Squatters and informal settlers	Households	No compensation for land, but compensation for structure at replacement cost and other assistance	a) Squatters will be given 1 month notice in which to remove their assets that will be affected. b) Compensation for loss of structure at replacement value c) A lump sum shifting allowance of INR. 3,000 for temporary, INR. 4000 for semi-permanent, and INR. 10,000 for permanent structures d) Right to salvage material from demolished structure
F: TEMPORARY	YIMPACTS		
9. Temporary impacts on land and other assets during construction	Owner/operator of affected assets	Cash compensation for affected assets and for loss of income potential	a) Compensation for affected standing crops and trees as per the market rates b) In case of impacts on land: -Restoration of land to its previous or better quality -Contractor to negotiate a rental rate with the owner for temporary possession of landCompensation for crop losses for the duration of temporary occupation, plus 1 more year necessary for the soil to be adequately restored to its original productive potential -Project and contractor to ensure that persons other than the owner affected as a result of the temporary acquisition are compensated for the temporary period c) Compensation in cash for the loss of income due to temporary loss of access for the duration of the impact d) In case of any impact on the properties (structure) during construction, the contractor will restore the impacted structure to its previous condition before handing over to the owners. e) Any temporary acquisition of land for the project will be done in accordance with the prevalent local laws.

Type of Loss	Identification of Affected	Entitlement	Entitlement Details
Jr	Households		
G: LOSS OF CON	MON PROPERTY RESO	URCES	
10. Loss of common property resources	Affected community/institution responsible	Cash compensation/reconstruction	Cash compensation at replacement value or reconstruction of the community structure in consultation with the community/institution
H: REHABILITA	TION MEASURES		
11. Additional assistance to vulnerable groups	Households categorized as vulnerable (The groups of people considered socially vulnerable comprise (i) those who are below the poverty line (BPL); (ii) those who belong to scheduled castes (SC) and scheduled tribes (ST); (iii) female-headed households (FHH); (iv) elderly; and (v) disabled persons.)	Lump sum assistance	Additional lump sum assistance of INR. 5,000 per household to vulnerable groups such as female-headed households, households with disabled family members, households below poverty line, scheduled tribe and scheduled caste households, etc.
I: UNIDENTIFII	ED IMPACTS		
12. Any unanticipated adverse impacts			Any unanticipated consequence of the project will be documented and mitigated based on the spirit of the principles agreed upon in this policy framework.
due to project intervention			

7.9 Grievance Redress Mechanism (GRM)

7.9.1 Objective of the GRM

The HPFFP will establish a Grievance Redress Mechanism (GRM) which will be implemented with the aim to respond to queries or clarifications about the project, resolve problems with implementation and addressing complaints and grievances. The GRM will focus on corrective actions that can be implemented quickly and at a relatively low cost to resolve identified implementation concerns, before they escalate to the point of harm or conflict. GRM will serve as a channel for early warning, helping to target supervision to where it is most needed and identify systemic issues.

The GRM will directly focus on and seek to resolve complaints (and requests for information or clarification) that pertain to outputs, activities and processes undertaken by the Project, i.e., those which (i) are described in the Project Implementation Manual; (ii) are funded through the Project (including counterpart funds); and (iii) are carried out by staff or consultants of the organization, or by their partners and sub-contractors, directly or indirectly supporting the project. It is envisaged that such cases would fall under (but are not limited to) the following categories:

- request for information, comment or suggestion, e.g., request for clarification as to the delay in reimbursing expenses of participants in a given training event;
- violation of rights or non-performance of obligations, e.g., complaint by consultant or firm whose contract is suspended as a result of presumed poor performance or non-delivery of agreed-upon outputs;
- grievances or offenses involving a violation of law, e.g., allegations of corruption; and
- complaints against project staff, members of project committees, consultants, and sub-contractors involved in project implementation

This section deals with the three levels at which the Grievance Redress Mechanism will be established- a) the Grievance Redress Committee at the Forest Division level, b) Scrutiny of Grievances and Redressal at Chief Project Director (SPMU) level and c) Project GR Committee at state level. Moreover, the legal options will be available to all the stakeholders. These arrangements are described below:

7.9.2 Grievance Redress Committee (GRC)

The Grievance Redress Committee will be established at the Division level under the chairmanship of the Conservator of Forests for the Circle for redress of grievances of the stakeholders with Divisional Forest Officers as the convener of these committees and district level heads of related departments will be members (maximum 5) along with a PAFs representative and a prominent Social Worker of the District/ Division.

It is proposed that the stakeholders first registers the grievances with the GRC, which will be directed to the concerned Range Office for taking redressal measures. The GRC should review status of all matters/ grievances received during the next immediate meeting and initiate measures for redress of unresolved complaints. No grievance can be kept pending for more than a month which means the committee has to meet every month. Implementation of the redress rests with the GRC with due support provided by the field office located at the Range. In case the aggrieved party is not satisfied with the proposed redress measures by the GRC, then the party can take approach the SPMU for redressal. If the aggrieved party is not satisfied with the proposed redressal measures suggested by SPMU, then the party can approach state level committee. If the aggrieved party is not satisfied with the decision of state level committee, it can approach the court of law or the larger state-wide grievance redress systems in place.

7.9.3 Chief Project Director, SPMU Level

7.9.4 Project GR Committee (PGRC)

In order to address grievances related to project activities, land acquisition and resettlement and rehabilitation implementation, livelihoods issues, etc., three bodies are to be established; PGRC at the state level, SPMU level and Grievance Redress Committees at the Division level. The state level GRC will be established under the chairmanship of PCCF, HPFD of the state to monitor and review the grievances, in his capacity as Chairman. CPD, HPFFP will be convener of this committee. The composition of the committee will be with the following members:-

- 1. A senior representative, one each from BC & EBC and SC & ST communities
- 2. A senior representative of the Revenue Department
- 3. A representative of the PRIs
- 4. A prominent academician (Social Scientist)
- 5. A prominent woman development professional
- 6. A representative of a prominent voluntary organization
- 7. A representative of PAFs who can articulate well

This committee should meet every quarter to review the progress made in resolving grievances. This committee will also provide policy related direction to the Grievance Redress Committee and the participating departments with regard to project activities.

Table 65: Grievance Redressal Mechanism

	Tal	ole: Grievanc	e Redress Mechan	ism
Level	Agency	Time period for redress of grievances	Issues likely to emerge	Functions/ Responsibility
Division	Grievance Redress Committee	Maximum of one month	 Participation Benefit sharing Encroachment Land acquisition Livelihood 	Conservator of Forests as Chairperson and Divisional Forest Officer in-charge as the Convener.
CPD	SPMU	Maximum of one month	 Livelihood Assistance Compensation Inclusion of households in project activities 	The Social Safeguards Specialist will review the grievances and suggests redressal under the guidance of Chief Project Director, SPMU.
State	Project Grievance Redressal Committee	Maximum of three months	project activities	Principal Chief Conservator of Forests as Chairman, Chief Project Director, HPFFP as Convener.

The SPMU level GRC will receive grievances escalated from the divisions and will be chaired by the CPD. Each Range as well as DFO Office will maintain a Grievances Registers and document/ log all the grievances and their redress. The Social Safeguards Specialist at SPMU will consolidate this information at project and forward quarterly reports to The World Bank through the CPD.

7.9.5 Legal Options to PAFs

The aggrieved will have two kinds of options for addressing their grievance's relating to the land appropriation. One is the grievance redress mechanism incorporated in this framework, as above. The other is the general legal environment consisting of court of law to address their grievance. These options will be disclosed to the aggrieved during the public consultation process.

7.9.6 Grievance Redress Service of The World Bank

In addition to seeking to resolve their grievances through the GRM established at the government level, "communities and individuals who believe that they are adversely affected by a World Bank (WB) supported project such as this operation may also submit complaints to the Grievance Redress Service (GRS) established by the World Bank. The GRS ensures that complaints received are promptly reviewed in order to address project-related concerns. Project affected communities and individuals may also submit their complaint to the WB's independent Inspection Panel, after having brought the complaint to the World Bank's attention through its GRS. Information on how to submit complaints to the World Bank's Grievance Redress Service is available at http://www.worldbank.org/GRS. Information on how to submit complaints to the World Bank Inspection Panel is available at www.inspectionpanel.org.

7.9.7 Documentation of the GRM Processes

The GRCs at each level will maintain the following three Grievance Registers that would, among others, help with monitoring and evaluation of the functioning of GRCs but also to document the processes of GRCs. The Grievance Register will have the following details:

- Serial Number
- Case Number
- Name of Complainant
- Gender
- Name of Parent/Spouse
- Full Address of the Complainant
- Main complaint/grievance
- List of documents attached
- History of Previous complaint/grievance, if any
- Date of receipt of complaint/grievance
- Date of acknowledgement of complaint/grievance
- Date of field investigation, if any
- Date of hearing
- Decision of GRC at that level
- Progress redressed, pending or rejected
- Key agreements/commitments
- Decision/Response of the complainant/grieved person
- Date, Mode and Medium of communication to complainant/grieved person
- Date of closing of complaint/grievance
- Whether appealing to next level yes or no
- Whether or not seeking legal redress.

The grievance redress process will be a continuous, transparent and participatory process that would be an integral part of the project's accountability and governance agenda. The GRC at each level will maintain the above mentioned Registers. The PIU will also prepare periodic reports on the grievance redress on the basis of reports received from the two levels of GRCs.

7.10 Social Inclusion Strategy

The project would ensure inclusion of all vulnerable groups including, women and tribals within the implementation structures, community institutions in the proposed project interventions by undertaking the following:

7.10.1 Consultation

HPFPP will ensure the participation of forest dependent communities, Project Affected Persons (PAPs) and other stakeholders through periodic consultations for planning

and monitoring project activities. Consultations will be held at regular intervals with GP members, Women, members of tribal households, NTFP collectors, transhumant communities, PAPs etc. Consultations will be carried out during the project cycle with all key stakeholders at all important stages of the project. In order to keep the momentum of consultation, activity specific consultations and a quarterly consultation will be held with all stakeholder groups.

7.10.2 Stakeholder Participation

HPFPP recognizes the fact that forest dependent communities are important stakeholders of the project. Hence, the project would ensure that these stakeholders are duly consulted on issues and they participate in all the sub-project activities including planning and implementation. The DFOs with guidance from the PIU would address the legitimate community concerns and provide opportunities and avenues for consultation and their participation. In order to provide a sense of ownership and ensure sustainability, the demand side stakeholders would be a part of the decision making process, wherever appropriate. The project has a commitment for community participation in each of the sub-projects taken up. Within the project design, participation of affected community will be ensured through strengthening of community institutions and creating awareness among them regarding rights, entitlements and concessions available to them with respect to forests, simplification of procedures for accessing to forest resources, supporting participation of local communities in the value chain of select NTFPs.

7.10.3 Selection of Individual Beneficiaries

The project would ensure the criteria developed for selection of beneficiaries would commensurate with weightage to all social groups and ensure that all vulnerable groups, including women, have equal access to project interventions proposed under the project and avoids elite capture.

7.10.4 <u>Information and knowledge Sharing</u>

Information and experience sharing through workshops, training and exposure visits will be taken up, in which preference will be given to women representatives of JFMCs and members of other vulnerable groups and forest dependent communities. Project would ensure that participation in all such events would be with fair representation of vulnerable groups. Number of participants by social group/category would be recorded along with suggestions/comments received.

7.10.5 Special Attention to Women and Other Vulnerable Groups

The vulnerable groups include Scheduled Tribes and Castes, Women Headed Households, Destitutes, Below Poverty Line families, Old Aged, Chronically Ill and Orphans. It is envisaged that in the course of conducting Social Assessment and

preparing and implementing Management Plans for forests, fodder and NTFPs, interests of these vulnerable groups would be adequately brought out, addressed and protected.

7.11 Citizen Engagement Strategy

This assessment indicates that many programs and schemes exist for forest conservation and tribal development, however communication on and community awareness of these programs is rather limited. Engagement tends to be more focused on individuals rather on community groups, as would be required in some of interventions under this project. Therefore, in a project of this nature involving beneficiaries across different social groups, a citizen engagement strategy is needed to engage with them to ensure intended outcomes are achieved.

The system developed for citizen's engagement will provide project beneficiaries, as well as concerned citizens and civil society space to provide feedback on the project. As an accountability measure, offline and online mechanisms will be created for receiving citizen's feedback. This feedback will be systematically analysing and used to inform the overall project implementation strategy. The awareness generation effort of the project will also include informing people about ways of providing feedback-like web portals and toll free helplines.

Key elements of this strategy are:

7.11.1 Participatory planning, implementation and monitoring

Some of the project interventions such as nurseries and plantations and their design, and planning and implementation would involve all stakeholders. In such exercises, inclusion and involvement of all social groups at all stages of planning, implementation and monitoring would be made mandatory. For this purpose, meetings will be conducted to ensure representation of all such groups besides recording their attendance by category/group. Continuous process monitoring would lay emphasis on quality of interactions during such meetings.

In addition use of different community monitoring tools like social audits will be used to assess community perception about the effectiveness and benefits of project activities and seek their feedback. The project strategy also includes involving local communities in natural resource monitoring to assess the status of natural resources as well as the degree of access to and benefit share from forest made available to communities for livelihoods improvement.

7.11.2 Feedback - ICT

Feedback from beneficiaries, complaints or grievances would be recorded through innovative use of ICT systems, including providing online feedback and suggestions on the HPFFP website. Such information would be collated for use in improving planning and implementation.

7.11.3 Support to grievance redressal

Project information dissemination, awareness creation among the direct and indirect stakeholders would also include creating awareness about available grievance redressal system that can be used for providing feedback. Regular interaction with the communities for their feedback on project interventions and impact mitigation/management measures would be taken up.

7.12 Gender Strategy

Like in other projects, as per available experience, in these sub-projects as well, women are likely to experience differential socio-economic impacts due to their disadvantaged position within socio-economic structures and processes. As a part of Gender Strategy the following actions are proposed:

- Gender disaggregated socioeconomic baseline: This include gender disaggregated information on women as part of the Baseline data collection for subsequent usage during mid-term and end-term evaluation.
- Separate Focus Group Discussions and mobilization: In order to ensure their differential needs are well articulated and recorded, FGDs would be conducted using experienced community mobilizers/facilitators. These FGDs or meetings would be scheduled in terms of time and location so as to maximize their participation. Such meetings would continue across all stages of every project intervention.
- Inclusion of women in committees: Even though women contribute significantly to the forestry activities, their poor representation in community institutions like the JFMCs denies them the opportunity to express their needs and priorities related to management of neighbouring forests. This lack of recognition impedes their access to project interventions. The project will work to ensure that at least 50 percent of community institutions have women in key decision making roles.
- Training and capacity building: Women groups would be provided with requisite technical training on nurseries operations, plantations management, NTFP collection and processing, control of forest fires, etc. and other demand driven income generation programs, including those supported under the project. The training programmes/modules will be customized to meet women groups' expectations and requirements. Trainings on-site, village-level demonstration and exposure visits in close proximity of habitation would be

ensured so that constraints in staying out of households for long duration is overcome. Financial literacy and accounting to enable access to financial services and exposure to market transactions would be encouraged. In case of women in tribal areas, such trainings would be conducted using culturally appropriate IEC materials and in culturally appropriate manner.

- Socially inclusive Benefit Sharing for shared/public goods: Suitable criteria/benefit sharing norms in selection of such clusters to cover women would be ensured.
- Convergence with existing state level schemes for empowerment of women: This will include interventions for dovetailing project interventions with existing schemes by supporting women entrepreneurs and collectives to link with schemes on concessional credit, skill upgradation, enterprise development etc. being provided by other institutions.
- External resource persons/consultants to support detailed design and implementation of gender program and conduct special women focused thematic studies
- Gender disaggregated monitoring indicators: Such monitoring indicators would be developed to monitor and evaluate the project and would be used in the proposed monitoring.
- Inclusion in Grievance redressal mechanisms: Representation of women in grievance mechanisms would be mandatory at all levels.
- Preference to deployment of female community facilitators: Female Community facilitators- would be deployed to the extent possible under the project to enhance mobilisation of women stakeholders and will be provided trainings to: i) facilitate effective outreach of project information to such women groups; ii) ensure adherence to selection criteria preferring women as individual beneficiaries; iii) engage them for the full project duration and thereby ensure that rapport established with such social groups continues during project implementation and beyond.

In addition, the project is being informed through a separate, detailed gender assessment to recommend actions to enhance control of assets, voice and agency of women and to propose robust results indicators to monitor women's participation in the project. The assessment looks at the position of women in the state wrt to rights over common property, access to forest resources, extent of dependence and participation in NTFP trade and value addition to understand the existing gender barriers with respect to forestry activities and propose an action plan to address them. The various actions suggested by this assessment will be incorporated by the project in its implementation strategy.

7.12.1 Information on Women

In order to mitigate such impacts, during verification and socio-economic survey shall collect information on the following:

 Number of women headed households and tribal households and other vulnerable persons

- Socio-demographic characteristics of affected women and tribals and other vulnerable persons
- Health status, including number of children per woman
- Women's role in household economy by collecting information on usual activity; occupation; their current level of dependence on forest resources, etc.
- Time Disposition
- Decision making power among women PAPs and their representation in forestry related community institutions.

7.12.2 Participation - Actions to be taken

Project has to perform following tasks:

- Ensure participation of vulnerable in project activities
- Carrying out other responsibilities towards vulnerable groups

Participation and engagement of women and other vulnerable can be ensured specifically in the following ways:

- Encourage women to take part in the consultation process.
- Ensure that the women are consulted and invited to participate in individual as well as group-based activities, to gain access and control over resources and due benefit share. Compensation for land and assets lost, being same for all the affected or displaced families, special care needs to be taken by the Project for women groups, while implementing the process of acquisition and compensation as well.
- Provide separate trainings to women groups for upgrading their skill and assist them in putting them to use.
- Encourage women to evaluate the project outputs from their point of view during the community monitoring process, encourage use of such social accountability tools separately with women groups to get their free and fair feedback
- Implement Vishakha Guidelines in all work places.

All these done in a participatory manner might bring sustainable results in terms of livelihood assistance and income restoration of women as a vulnerable group.

7.13 Implementation Arrangements

The following implementation arrangements are proposed to be in place for social aspects implementation and monitoring. It is proposed that the

Level	Social Implementation and	Responsibility
	Monitoring Arrangements	
SPMU	Social Safeguards Specialist - 1	Overall responsibility for the entire
	Gender and Social Development	project on social safeguards, gender
	Specialist - 1	and social development issues.

PIU	Social and Community	Overall responsibility for the project
	Development Consultants - 6	at PIU level on social safeguards and
	(3 to be placed at division level	social development issues as link
	and 3 to be placed at circle level)	between SPMU and Project Ranges.
Range	Social Extension Officer	Community mobilization,
	(Community Facilitator) – 2 or 3	engagement, participation,
	per range (1 per Block/ Beat)	grievances, etc.

7.14 Monitoring

The SMF requires detailed supervision, monitoring and evaluation of the impact of the project on social aspects. In order to carry out this, HPFFP will have specific arrangements made at state and range level. This includes appointment of a Social Specialist for the project period at state level. Further the HPFFP will guide the Field level agencies on how implementation of this SMF. Implementation of the provisions of SMF will be new to these staff and hence several orientations and trainings are proposed as a part of this SMF to build their capacity.

The HPFFP PIU will be in charge of implementing the SMF. The Social Specialists will guide and oversee its implementation and will be supported at field level by facilitators. Further the HPFFP will incorporate the provisions of this SMF as actionable points in the Project Operations Manual or other similar document prepared for the project. The Social Specialist will oversee the application of these provisions and guide the process, while at the same time building the capacity of the PIU and the field units.

The following provisions include the arrangements made for the effective implementation of the SMF:

7.14.1 SMF supervision

All the sub-projects will be visited at regular intervals by Social Safeguards Specialist and Gender and Social Development Specialist to check if all social safeguard requirements are met and to identify any issues that need to be addressed. SPMU would submit quarterly progress reports to The World Bank on social safeguards implementation.

7.14.2 Social Indicators

Once every year, the HPFFP will prepare a report of the social safeguards status in the project districts including data and analysis of relevant parameters as given below:

- Social Indicators
 - o Number of grievances registered and resolved
 - Number of court cases

- o Number of women members in committees
- o Number of trainings held
- Number of women trained
- Income restoration of communities
- o Livelihood Enhancement
- Land holding status
- o Literacy
- o Housing
- Ownership of household assets

This report also should give a listing of relevant new legislation and regulations that have a bearing on the social performance of the project and will be submitted to The World Bank. The SMF will be suitably revised as and when required by the PIU.

7.14.3 Quarterly Monitoring

The concurrent internal social monitoring will be done as part of the regular monitoring by the SPMU and range level implementing agencies. However, independent consultants appointed by HPFFP, will do the quarterly social monitoring of sub-projects for social safeguards compliance.

7.14.4 Monitoring Plan

Given in the table below are indicators for project interventions, for which monitoring need to be taken up by SPMU and the range offices in a regular manner.

Table 66: Monitoring Indicators

Monitoring Indicators	Frequency	Agency
Number of grievances registered and resolved	 Concurrent 	• SPMU guiding the collection
Number of court cases	Monitoring by	of information on indicators
• Number of women members in JFMC	PIU and	 Range offices collecting
executive committees	Range offices	information at field level
Number of women trained		

Monitoring Indicators	Frequency	Agency
 Income restoration measures taken up with communities Livelihood Enhancement Activities undertaken Change in Incomes and their patterns Change in Land holding status Change in Income from Forests Changes in occupations Housing status Ownership of household assets Introduction of new species Introduction of new breeds of livestock Yield of crops/ NTFP Incomes from NTFP collection- processing/ Other forestry activities Other No. of training programs conducted No. of personnel trained Achievement of learning objectives Extent of application of methods, tools and techniques learnt during training 	• Annually Reports by PIU	• Implementing Agencies/

7.15 Capacity Building Strategy

The HPFFP will give its staff and the participating communities some exposure to the social safeguards issues. But the interactions with them reveal that, this mere exposure is not enough for preparing and implementing social management plans. They need to have awareness, sensitivity, skills and hands-on experience regarding the social aspects of sub-projects planning and implementation.

For seamless adaption of the social principles and safeguards by all the implementing partners, awareness creation and capacity building becomes necessary. The capacity building agency designated for this project, the State Forest Training Institute at Chail will be supported for improving its own capacities to deliver trainings to project stakeholders on social safeguards and their management and would be provided flexibility to bring in expert resource from the market to augment their own capacities. The project will provide additional support to bolster the existing capacities of the institute to deliver trainings on social safeguards, participatory approaches and inclusion.

This capacity building and IEC strategy has been outlined as part of the SMF developed for the project aims at building social awareness and social management capacity in the project administration structure as well as in the intended target communities. Capacity building for social management will be integrated with overall capacity building component of the project.

7.15.1 Objectives

The objectives of the capacity building initiatives are:

- To build and strengthen the capability of HPFD, participating agencies, to integrate sound social management into sub-project implementation.
- To orient the HPFFP staff, participating agencies and communities to the requirements of the project's SMF.

7.15.2 Approach

Systematic capacity building initiatives need to be introduced only after completion of training needs assessment. All the trained staff and master trainers developed for different training components will in turn conduct onsite or offsite trainings (at district, block or village levels) depending on training requirement. However, since capacity building goes beyond mere imparting training, institutionalization of best practices becomes a prerequisite for improved sub-project social management. The training outcomes like trainees' understanding of the training content, achievement of learning objectives, application of methods, tools and techniques learnt during training, etc. will need to be monitored. This will be done through periodic tracking of learning outcomes.

7.15.3 Training Providers

In view of the specialized training and capacity building envisaged under the SMF of the project, it is necessary to identify nodal training institutes that will work closely with PIU for conceptualizing, designing and conducting training programs on the SMF. The state forest training institute at Chail has been identified as the nodal agency to conduct these trainings and will partner with other state based institutes and universities for conducting these specialized trainings.

7.15.4 Details of Training Programs

7.15.5 T1. Orientation/ Learning Training Programs

Purpose of the training:

- To orient the project staff at the project launch towards the social issues of the project
- To orient the project staff about the SMF and its importance, provision and implications. There after annual orientation cum experience sharing and learning training programs will be conducted.
- To re-orient the project staff on the SMF and to share their experiences in implementing the SMF
- To draw lessons learnt during the implementing the SMF and to incorporate them into the SMF revision.

Participants: All Key officials of the project including PIU, participating agencies, NGOs and members of community institutions. PIU will be responsible for selection of suitable candidates for the training, and the expense will be borne from the overall project capacity building budget and will be completed in the first year of the project.

7.15.6 T2. Training on the SMF and Management Plans

Purpose of the training:

- To equip with knowledge and skills necessary for undertaking social appraisal as per the requirements of the SMF and preparation of mitigation plans
- To prepare for undertaking periodic supervision of implementation of social mitigation plans and performance of sub-projects
- To apply community led system for Social Monitoring

Participants: Key officials of the project including PIU, participating agencies, NGOs and members of community institutions- JFMCs. PIU will be responsible for selection of suitable candidates for the training, and the expense will be borne by the overall project capacity building budget and will be conducting as and when required in the first 3 years of the project. The initial SMF training to key project implementers will be completed within the first 6 months of the project initiation.

7.15.7 T3. Training on Social Management

Purpose of the training:

- To equip with knowledge and skills necessary for meaningful participation in the social appraisal as per the requirements of the SMF
- To prepare for planning and monitoring implementation of social mitigation measures identified through the appraisal process
- To equip with skills necessary for Community Based Social Monitoring

Participants: NGOs, Participating Agencies Staff, GP Representatives, JFMC Representatives.

The Range office will be responsible for selection of suitable candidates for the training, and the expense will be borne by the overall project capacity building budget.

Table 67: List of Training Programs

List of Training Programs				
S. No.	Topics	Number of Trainings		
1	T1 – Orientation and Learning Training	6		
1	T1 - Environmental and Social Management Framework	6		
2	T3 - Environmental and Social Management	13		
	Total	25		

About 20 to 30 trainees would participate in each of the training programs. It is intended that these trained persons will in turn provide onsite training to Participating Agencies' Staff, NGOs, resource persons, etc. onsite at district/ block level.

7.15.8 Training Budget

The total estimated cost of training on social management for members of HPFFP, Participating Agencies' Staff, NGOs, etc. under the proposed HPFFP is presented in the table below:

Table 68: Training Budget

Trainin	Training Budget						
S. No.	Training	No. of Programs	Estimated Unit Cost in Rs.	Total Cost In Rs.			
1	T1	6	1,50,000	9,00,000			
2	T2	6	10,00,000	60,00,000			
3	T3	13	5,00,000	65,00,000			
4	Workshops (State)	6	2,00,000	12,00,000			
5	Workshops (District)	13	1,00,000	13,00,000			
6	Provision for other			41,00,000			
	Training, Expenses, etc.						
7	Total			2,00,00,000			

7.16 Budget

The total administrative budget for social management activities under the proposed HPFFP has been worked out as Rs. 7 Crore. The cost of implementing the proposed mitigation measures is not included in this costing. The cost of mitigating social impacts need to be included in the respective sub-projects' budgets. The detailed breakup of the administrative budget is presented in the table below.

Table 69: Total administrative budget for environmental and social management activities

S No.	Activity	Amount in Rs.
1	Social Safeguards Specialist (1) and Gender and Social Development	0.00
	Specialist (1) at SPMU for 5 Years @ Rs. 1,20,000 per month for 5	
	years- Cost borne by overall project budget for hiring subject matter	
	specialists	
2	Social and Community Development Consultants (6) at PIU level and	0.00
	Community Facilitators (2 or 3 per range) at the beat level- Cost borne	
	by overall project budget	
3	Training and workshops (as estimated)	2,00,00,000
4	External Independent Half-Yearly Social Audit from 2nd year for 5 years	1,50,00,000
5	Preparation of specific social related community awareness materials @	1,00,00,000
	10 lakh per district for 5 districts and 50 lakh at state level	
6	TDF Implementation Cost	1,80,00,000
7	Sub Total	6,30,00,000
8	Contingencies @ 10%	63,00,000
	Total	6,93,00,000
		Rs. 7 Crores

November 2018

7.17 Means of Disclosure

This Final SA&MF along with RPF and the TDF are disclosed on the project website along with the Hindi translation of the executive summaries. The documents along with the executive summaries in Hindi, will be kept at the DFO Office, District Collector's Office, and Range Office for interested persons to read and copy. This will be made available at the Gram Panchayat Offices of the concerned villages.

November 2018

8. Annexures

8.1 Annexure 1: List of Commercially Identified Forest Produce in HP

).1	Aimexure 1. List of	Commercially Identified	Torest Froduce 1	
S.	Botanical Name	Local/ Trade	Plant Part	Permit Pass Fee
No.		Name		Rs/qtl.
1	Abies spectabilis/ A.pindrow	Talis Patra	Needles/ leaves	125
2	Acacia catetchu	Khair	Heartwood/chips	250
	Acacia cateteria	Kildii	Khair billet	175
3	Aconitum dienorrhizum	Vatsnabh/ Mohra	Tubers	7,500
4	Aconitum heterophyllum	Atis/ Patis/ Karvi Patis	Tubers	5,000
5	Aconitum violaceum	Mitha Telia/ Mitha Patis	Tubers	1,000
6	Acorus calamus	Bach/ Bare/ Ghor bach	Rhizomes	150
7	Adhatoda zeylanica/A.vasica	Basuti/ Bansa	Leaves	125
8	Adiantum lunulatum	Dungtuli/ Hansraj	Fronds/ Whole Plant	125
9	Aegle marmelos	Bilgiri	Fruits	500
10	Aesculus indica	Khanor	Fruits/ Seeds	150
11	Ainsliae aptera	Sathjalori	Roots	150
12	Ajuga beacteosa	Neelkanthi	Leaves	125
13	Alnus nitida	Kosh Cones	Dry Cones	150
14	Angelica glauca	Chora	Roots	150
15	Arctium lappa	Jangli Kuth	Roots	125
16	Arnebia euchroma/ A.benthami	Ratanjot	Roots	200
17	Artemisia brevifolia	Seski	Flowering shoots	125
18	Asparagus adscendens	Shatavari/ Sanspai/Safed Musali	Root tubers	200
19	Atropa acuminata	Belladona/ Jharka	Leaves	125
20	Berberis spp	Kashmal/ Daruhaldi	Roots/ Stems	200
21	Bergenia ciliate / B. stracheyi	Pasahnbhed/ Patharchat	Roots	150
22	Betula utilis	Bhoj Pattar /Birch pine	Bark Dry cone	500 200
23	Bunium persicum	Kala Zira	Fruits	2,000
24	Carum carvi	Shingu Zira	Fruits	1,000
25	Cedrus deodara	Deodar Rosette	Dry Cone part	150
26	Cinnamomum tamala	Tejpatra	Leaves	500
27	Colebrookia oppositifolia	Bindi	Leaves/ Roots	125
28	Coleus aromaticus	Pathan Bail	Leaves, seeds	30
29	Curcuma angustifolia	Ban Haldi	Rhizomes	150

S. No.	Botanical Name	Local/ Trade Name	Plant Part	Permit Pass Fee Rs/qtl.
30	Dactylorhiza hatageria	Salam Panja/ Hath	Root tubers	6,000
31	Dioscorea deltoidea	Panja	Roots	900
32	Emblica officinalis	Singli Mingli/Kins Amla	Fruits	150
33	Ephedra gererdiana	Somlata	Twigs	200
34	Fritillaria roylei	Ban Lehsun'/ Mushtanda	Bulb	10,000
35	Geranium nepalense	Laljari/ Raktjari	Roots	125
36	Girardiana diversifolia	Bichhu Buti	Roots	150
37	Hedychium acuminatum	Kapur Kachri/ Kachur/ Van Haldi	Roots	100
38	Heracleum spp(H. candicans; H. lanatum)	Patishan/ Patrala	Roots	100
39	Hyocymus niger	Khurasani Ajwain	Seeds/ Leaves	150
40	Hypericum patulum/ H.perforatum	Khaarera/ Basant	Whole Plant	250
41	Hyssopus officinalis	Juffa	Flowering Twigs	500
42	Iris germanica	Safed Bach	Rhizomes	125
43	Juglans regia	Akhrot/ Khod	Bark	1000
44	Juniperus communis	Hauber	Berries	250
45	Juniperus recurva/ J. macropoda	Bether Patta	Leaves	150
46	Jurinea macrocephala=J. dolomoea	Dhoop/ Guggal dhoop	Roots	500
47	Lichens	Chalora/ Chharila/ Jhula/ Mehndi/ Stone flower	Thallus	500
48	Mentha longifolia	Jangli Pudina	Leaves	125
49	Morchella esculenta	Guchhi/ Cheun	Fruiting Body	10,000
50	Mosses	Green Moss Ghas	Thallus	250
51	Murraya koenigii	Mitthi Nim	Leaves	150
52	Myrica esculenta	Kaphal	Bark	200
53	Nardostachys grandiflora	Jatamansi	Roots	1,000
54	Origanum vulgare	Ban Tulasi	Leaves	150
55	Oroxylum indicum	Shyonak, Tatpalanga	Bark, Pod	125
56	Paris polyphylla	Dudhia bach/ Satva	Rhizomes	200
57	Picrorhiza kurroa	Karoo/ Kutki	Rhizomes	1,000
58	Pinus gerardiana	Chilgoza/ Neoza	Seeds	1,000
59	Pinus roxburghii	Chil Cones	Dry Cones Dry needles	1000 5
60	Pinus wallichiana	Kail Cones	Dry Cones	1,000
61	Pistacia integerrima	Kakarsingi	Leaf Galls	1,000
		•	•	

S. No.	Botanical Name	Local/ Trade Name	Plant Part	Permit Pass Fee
				Rs/qtl.
62	Podophyllum hexandrum=P. emodi	Bankakri	Fruits Roots	250 450
63	Polygonatum spp.	Salam Mishri/ Meda/ Mahameda	Rhizomes	1,000
64	Potentilla nepalensis	Dori Ghas	Roots	125
65	Prunus cerasoides	Pajja/ Padam/ Padmakasht	Wood	125
66	Punica granatum	Daru/ Anar	Fruits/ Seeds	500
67	Pyrus pashia	Kainth/ Shegal	Fruits	125
68	Rauvolfia serpentina	Sarpagandha	Roots	500
69	Rheum spp. (R. austral = R. emodi/ R. speciforme)	Revandchini	Roots	200
70	Rhododendron anthopogon	Talis patra	Leaves	125
71	Rhododendron arboreum	Brash/ Burah	Flowers	150
72	Rhododendron campanulatum	Kashmiri Patta	Leaves	150
73	Salvia moorcroftiana	Thuth	Roots	200
74	Sapindus mukorossi	Ritha/ Dodde	Fruits	150
75	Saussurea costus/S.lappa	Kuth	Roots	300
76	Selinum spp. (S. vaginatum/ S. tenuifolium)	Bhutkesi	Roots	400
77	Swertia spp	Chirata	Whole Plant	700
78	Taraxacum officinale	Dhudhi/ Dandelion	Roots	125
79	Taxus wallichiana=T. baccata	Birmi/ Thuna/ Rakhal	Needles	600
80	Terminalia bellirica	Bahera	Fruits	300
81	Terminalia chebula	Harar	Fruits	500
82	Thalictrum foliolosum	Mamiri	Roots	350
83	Thymus serpyllum	Banajwain	Aerial Parts(Herb)	125
84	Tinospora cordifolia	Giloe/ Guduchi	Stems	125
85	Toona ciliate / Cedrela toona	Bari phool	Dried fruits	125
86	Trillidium govanianum	Nag Chhatri	Roots/ Rhizomes	8000
87	Valeriana spp.	Mushakbala/ Tagar/ Nihanu	Roots/ Rhizomes	600
88	Viola spp	Banafsha	Flowers/ aerial parts	2,250
89	Withania somnifera	Ashvagandha	Roots	200
90	Woodfordia fruticosa	Dhatki/ Dhai	Flowers	150
91	Zanthoxylum armatum	Tirmir	Fruits/ seeds	250
92	All other NTFP not listed above			100

8.2 Annexure 2: Animal Species and their Status

	Animal Species and their St	THREATENED STATUS		
ANIMALS SCIENTIFIC NAME	COMMON NAME	WLPA SCHEDULES	CITES APPENDIX	IUCN RED LIST
Felis chaus	Jungle Cat	IV	ПX	Least Concern (LC)
Equus kiang	Tibetan Wild Ass	I	I	Least Concern (LC)
Ompok bimaculatus (fish)	Butter Catfish			Near Threatened (NT)
Nemacheilus montanus				Endangered
Namorheadeus sumatraenis	Serow	I	II	Vulnerable
Anguilla bengalensis				Endangered
Ursus arctos isabellinus	Himalayan Brown Bear	I		
Prionailurus bengalensis	Leopard Cat	I	I	Vulnerable
Moschus chrysogaster	Himalayan Musk Deer	I	I	Endangered
Panthera pardus	Leopard	I	I	Vulnerable
Canis lupus chanko	Himalayan Wolf	I	I	Vulnerable
Ovis ammon	Tibetan Argali	I	I	Vulnerable
Hemitragus jem lahicus	Himalayan Thar	ı	I	Endangered
Vulpes	Red Fox	II	III	Vulnerable
Snow Leopard	Panthera uncid	ı	I	Endangered
Capra ibex	Asiatic Ibex	ı		Near Threatened
Ursus thibetanus	Asiatic Black Bear	II		Vulnerable
Lynx	Eurasian Lynx	I	II	Endangered
Birds				
Gyps indicus	Indian Vulture	I		Critical
Haliaeetus leucoryphus	Palla's Fish-Eagle	I		Vulnerable
Catreus wallichi	Cheer Pheasant	I	I	Vulnerable
Tragopan melanocephalus	Western Tragopan	I	I	Vulnerable
Falco naumanni	Lesser Kestrel			Least concern
Gyps bengalensis	Asian White-Backed Vulture	I		Critically endangered
Grus antigone	Sarus Crane	IV		Vulnerable
Lophophorus impejanus	Himalayan Monal	I		Least concern
Ichthyophaga humilis	Lesser Fish -Eagle	I		Near Threatened
Gyps himalayensis	Himalayan Griffon			Least concern
Reptiles				
Bungarus caeruleus	Common Indian Krait	II		
Daboia russelii	Russsell's Viper			
Gloydius himalayanus	Himalayan Pit Viper			
Naja	Indian Cobra			

November 2018

		THREATENED STATUS		
ANIMALS SCIENTIFIC NAME	COMMON NAME	WLPA SCHEDULES	CITES APPENDIX	IUCN RED LIST
Xenochrophis piscator	Checkered keelback or Freshwater snake	II		Vulnerable
Xenochrophis piscator	Russell's Earth Boa			Vulnerable
Ophiophagus hannah	King cobra	II		
Ptyas mucosus	Common Rat snake	II		
Coelognathus helena	Trinket Snake			
Hemidactylus flaviviridis	Northern House Gecko			
Cyrtopodion lawderanum	Western Himalayan Gecko			
Varanus bengalensis	Common Indian Lizard	l		Least concern
Amphibians				•
Fejervarya limnocharis	Indian Cricket Frog	IV		Least concern
Euphlyctis cyanophlyctis	Skittering Frog	IV		Least concern
Uperodon systoma	Marbled Balloon Frog			Least concern
Duttaphrynus himalayanus	Himalayan Toad			Least concern
Bufo himalayanus	Himalayan Toad	IV		Least concern
Hoplobatrachus tigerinus	Indian Bull Frog			
Polypedates maculatus	Common Indian Tree			Least concern
Sphaerotheca rolandae	Frog	IV		Least concern

8.3 Annexure 3: National Parks and Sanctuaries in HP

Sr. No.	Name of NPs /Sanctuaries /Conservation Reserve	Name of District	Area (km²)			
National Parks :						
1	Great Himalayan NP	Kullu	905.4			
2	Pin Valley NP	Lahaul - Spiti	675			
3	Khirganga NP	Kullu	705			
4	Inderkila NP	Kullu	94			
5	Simbalwara NP	Sirmour	27.88			
Total			2407.28			
Sanctuaries						
1	Bandli	Mandi	32.11			
2	Chail	Solan	16			
3	Chandra Tal	Lahaul - Spiti	38.56			
4	Churdhar	Sirmour	55.52			
5	Darangha ti	Shimla	171.5			
6	Dhauladhar	Kangra	982.86			
7	Gamgul Siyabehi	Chamba	108.4			
8	Kais	Kullu	12.61			
9	Kalatop Khajjiar	Chamba	17.17			
10	Kanawar	Kullu	107.29			
11	Khokhan	Kullu	14.94			
12	Kibber	Lahual - Spiti	2220.12			
13	Kugti	Chamba	405.49			
14	Lipa Asrang	Kinnaur	31			
15	Majathal	Solan	30.86			
16	Manali	Kullu	29			
17	Nargu	Kullu & Mandi	132.37			
18	Pong Dam	Kangra	207.59			
19	Rakchham Chitkul	Kinnaur	304			
20	Renukaji	Sirmour	3.87			
21	Rupi Bhaba	Kinnaur	503			
22	Sechu Tuan Nala	Chamba	390.29			
23	Shimla Water	Shimla	10			

Government of Himachal Pradesh Himachal Pradesh Forests for Prosperity Project (The World Bank assisted) Social Assessment and Management Framework – Final Report

November 2018

Sr. No.	Name of NPs /Sanctuaries /Conservation Reserve	Name of District	Area (km²)
24	Catchment Shikari Devi	Mandi	29.94
25	Talra	Shimla	46.48
26	Tundah	Chamba	64
Total		5964.97	
Conservation R	eserves :		
1	Darlaghat	Solan	0.67
2	Naina Devi	Bilaspur	17.01
3	Shilli	Solan	1.49
Total		19.17	
Grand Total			8391.42

8.4 Annexure 4 – Social Screening Format

Himachal Pradesh Forests for Prosperity Project

Social Screening Format

Sub-Project:

1. Land Requirement

	1. Land Requirement						
Details	Unit	Quantity	Classification/Category	Present Use			
				and User			
Government Land							
Private Land							
Forest Land							
Title Holder							
Non-titleholders							
(Encroacher)							
Non-titleholders							
(Squatter)							
People losing							
livelihoods/ access							
due to loss of Govt.							
Lands to Project							

2. Agriculture Land affected due to sub-project

2. Higheditare Earla directed due to bub project				
Details	Unit	Quantity		
Total Affected	Number			
Title Holders	Number			
Non-titleholders	Number			
(Encroacher)				
Non-titleholders (Squatter)	Number			
BPL Families losing	Number			
Agriculture Land				

3. Crop/Orchids/Vegetation/Garden affected due to sub-project

1, , , ,	1	,
Details	Unit	Quantity
Type of	Туре	
Crop/Orchids/Vegetation/Garden		
Title Holders	Number	
Non-titleholders (Encroacher)	Number	
Non-titleholders (Squatter)	Number	
BPL Families losing Agriculture Land	Number	

4. Dwellings (Residential) affected due to sub-project

Details	Unit	Quantity
Title Holders	Number	

Government of Himachal Pradesh Himachal Pradesh Forests for Prosperity Project (The World Bank assisted) Social Assessment and Management Framework – Final Report

November 2018

8		
Non-titleholders	Number	
(Encroacher)		
Non-titleholders (Squatter)	Number	
Total Affected	Number	
BPL Families losing	Number	
Dwellings		

5. Commercial properties

Details	Unit	Quantity
Total Affected	Number	
Title Holders	Number	
Non-titleholders	Number	
(Encroacher)		
Non-titleholders (Squatter)	Number	
BPL Families losing	Number	
Commercial Properties		

6. Common Property Resources Affected: (Please give each type by number)

Туре	Unit	Quantity
	Number	

6	Total no of HH affected due to proposed project	Results
	activity (Single or multiple impacts)	
7	Total no of vulnerable HH affected due to proposed	
	project activity (Single or multiple impacts)	
8	Total number of Community Property Resources	
	affected	

Question	Yes	No	Details
Does this land comes under FRA in terms of unsettled claims?			If YES, please choose any other piece of land
Does this land comes under High Court Order for Eviction of Encroachments?			If YES, please choose any other piece of land
Is this land been encroached?			If YES, please choose any other piece of land
Does this land comes under any kind of dispute from forest dwellers?			If YES, please choose any other piece of land
Does this land fall in or restricts access of communities to their conserved areas,			If YES, please choose any other piece of land

Government of Himachal Pradesh Himachal Pradesh Forests for Prosperity Project (The World Bank assisted) Social Assessment and Management Framework – Final Report November 2018					
sacred groves, with no other accessible routes available?					

between

.....S/o

8.5 Annexure 5: Format for Voluntary Land Donation

Voluntary	y Donation of Land
On a Rs. 1	10/- Stamp Paper

.....

resident of	W/o	Age Occupati	on						
Successors – in-interest, heirs, assignees, nominees etc. AND Sri. S/o W/o Aged Designation									
AND Sri	Encroacher" on o								
Sri	successors - in-in	successors – in-interest, heirs, assignees, nominees etc.							
Sri									
Designation	AND								
Designation	O:	C / - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	A 1						
to "for and on behalf of Project Management Unit, Himachal Pradesh Forests for Prosperity Project, Government of Himachal Pradesh" on the other part and shall mean and include his successors –in-office, nominees and assignees etc. 2. Whereas, the details of the Location of the, land are given below: Location Details	Dogiomation	5/0 W/0	the "Desirient" which town denotes						
Project, Government of Himachal Pradesh" on the other part and shall mean and include his successors -in-office, nominees and assignees etc. 2. Whereas, the details of the Location of the, land are given below: Location Details									
Successors -in-office, nominees and assignees etc. 2. Whereas, the details of the Location of the, land are given below: Location Details									
2. Whereas, the details of the Location of the, land are given below: Location Details Village Gram Panchayat Block District Title Holder/ Encroacher Details Name of Title Holder/Encroacher Father/ Husband's Name of Title Holder/Encroacher Status: Title Holder/ Encroacher Age: occupation: Residence: Gender: Schedule - Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary West Boundary	,		part and shan mean and melade his						
Location Details Village Gram Panchayat Block District Title Holder/ Encroacher Details Name of Title Holder/Encroacher Father/ Husband's Name of Title Holder/Encroacher Status: Title Holder/ Encroacher Residence: Gender: Schedule -Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary West Boundary Vest Boundary	5uccessors - In-orrice,	noninices and assignees etc.							
Location Details Village Gram Panchayat Block District Title Holder/ Encroacher Details Name of Title Holder/Encroacher Father/ Husband's Name of Title Holder/Encroacher Status: Title Holder/ Encroacher Residence: Gender: Schedule -Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary West Boundary Vest Boundary	2 Whereas the deta	ails of the Location of the land are o	iven below:						
Village Gram Panchayat Block District Title Holder/ Encroacher Details Name of Title Holder/Encroacher Father/ Husband's Name of Title Holder/Encroacher Status: Title Holder / Encroacher Age: occupation: Residence: Gender: Schedule - Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary	z. Whereas, the dete	and of the Boothoff of the finite tire g	rven below.						
Gram Panchayat Block District Title Holder/ Encroacher Details Name of Title Holder/Encroacher Father/ Husband's Name of Title Holder/Encroacher Status: Title Holder/ Encroacher Age: occupation: Residence: Gender: Schedule - Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary	Location Details								
Block District Title Holder/ Encroacher Details Name of Title Holder/Encroacher Father/ Husband's Name of Title Holder/Encroacher Status: Title Holder/ Encroacher Age: occupation: Residence: Gender: Schedule - Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary									
District Title Holder/ Encroacher Details Name of Title Holder / Encroacher Father / Husband's Name of Title Holder / Encroacher Status: Title Holder / Encroacher Age: occupation: Residence: Gender: Schedule -Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary West Boundary	Gram Panchayat								
Title Holder/ Encroacher Details Name of Title Holder/Encroacher Father/ Husband's Name of Title Holder/Encroacher Status: Title Holder/ Encroacher Age: occupation: Residence: Gender: Schedule -Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary West Boundary	Block								
Name of Title Holder/Encroacher Father/ Husband's Name of Title Holder/Encroacher Status: Title Holder/ Encroacher Age: occupation: Residence: Gender: Schedule - Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary	District								
Father/ Husband's Name of Title Holder/Encroacher Status: Title Holder/ Encroacher Age: occupation: Residence: Gender: Schedule - Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary	Title Holder/ Encro	acher Details							
Status: Age: occupation: Residence: Gender: Schedule -Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary Title Holder / Encroacher Residence: Lesidence: Residence: Residence: Interpretation of the properties of the proper		,							
Age: occupation: Residence: Gender: Schedule -Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary	Father/ Husband's	Name of Title Holder/Encroacher							
Gender: Schedule -Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary	Status:		Title Holder/ Encroacher						
Schedule -Land Details/Structure Land in Question Area Location North Boundary East Boundary West Boundary	Age: occupation	on: Residence:							
Land in Question Area Location North Boundary East Boundary West Boundary	Gender:								
Area Location North Boundary East Boundary West Boundary		tails/Structure							
Location North Boundary East Boundary West Boundary	Land in Question								
North Boundary East Boundary West Boundary	Area								
East Boundary West Boundary	Location								
West Boundary	North Boundary								
ÿ .	East Boundary								
South Boundary	West Boundary								
	South Boundary								

1. This deed of voluntary donation is made and executed on day of

Sri/Smt

Note: Detailed Map to the scale is appended.

3. Whereas the Title Holder is presently using/ holds the transferable right of the above mentioned piece of land in the village mentioned above. Whereas the Encroacher does not hold any transferable rights of the above mentioned piece of land in the village mentioned above but has been a long standing encroacher dependent on its usufruct hereditarily.

- 4. Whereas the Title Holder/Encroacher testifies that the land is free of encumbrances and not subject to other claims/ claimants.
- 5. Whereas the Title Holder/Encroacher hereby voluntarily surrenders the land/structure without any type of pressure, influence or coercion what so ever directly or indirectly and hereby surrender all his/her subsisting rights in the said land with free will and intention.
- 6. Whereas the Recipient shall construct and develop infrastructure facilities under the project, Himachal Pradesh Forests for Prosperity Project, and take all possible precautions to avoid damage to adjacent land/structure/other assets.
- 7. Whereas both the parties agree that the infrastructure so constructed/developed shall be for the public purpose.
- 8. Whereas the provisions of this agreement will come into force from the date of signing of this agreement.

Signature of Title Holder/Encroacher			Signature of Ranger
Name of Title Holder/Encroacher			Name of Ranger
Date			Date
Identified by			
1. Name:	Signa	ture:	
2. Name:	Signa	ture:	
	Witn	esses	
Signature of Gram Panchayat President			
Gram Panchayat President Name			
Signature of GP Secretary			
Name of GP Secretary			
Signature of SPMU Representative			
Name of SPMU Representative			
Designation of SPMU Representative			

8.6 Annexure 6: Summaries of Community Consultations (CC)

1	Date	May 1 2018				
	Village	Khali				
	BLOCK	Kunihar				
	District	Solan				
	State	Himachal Pradesh				
	Range	Chandi				
	Location	Anganwadi Center Khali	Anganwadi Center Khali			
	Timing	Start Time	9:30 AM			
	Timing	End Time 11:15 AM				
	Moderator	Gaurav Sharma				
	Documenter	Lokesh Kumar				

S. No.	Name of Participant	Age	Gender	S. No.	Name of Participant	Age	Gender
1.	Amra Devi	29	F	2.	Neel	31	M
3.	Anju Devi	31	F	4.	Nekram	45	M
5.	Bimla Devi	34	F	6.	Nirmla Davi	42	F
7.	Chandrawati	53	F	8.	Preeti	20	F
9.	Daya Vati	45	F	10.	Prembala	62	F
11.	Devi Ram	72	M	12.	Ramku	73	F
13.	Gyan Chand Thakur	44	M	14.	Reeta	34	F
15.	Hemlata	24	F	16.	Satya Devi	36	F
17.	Jagdish Chand	58	M	18.	Uma	38	F
19.	Jai Devi	40	F	20.	Narayan Das	74	М
21.	Jyoti	23	F	22.	Kripa Ram	66	M

Discussions

- Rainfed Farming is practiced in the village. Major crops grown are wheat and maize.
- Productivity is very low due to non-availability of irrigation facilities in the village.
- Wild animals and monkeys destroy the crops.
- Few years back a bear attacked an old woman and injured an old woman in the village.

Social Assessment and Management Framework - Final Report

- Fencing around the village boundary would prevent the wild animals from entering the village and damaging the crops
- Employment opportunities are not available in the village and people have to migrate to the nearby towns for employment.
- Most of the villagers are dependent on agriculture
- Forest fires are a frequent occurrence and because of the large number of pine trees which are prone to catch fire during the summers.

- Awareness camp be organized by the forest department and programs and policies be explained to the villagers
- Protection from wild animals must be ensured
- A zoo may be developed and wild animal caught by the forest department may be kept in a zoo
- Develop nursery in the village
- Generate employment through plantation/ grow more medicine plantation
- Give permission to access to forest and permission to cut the grass from forest
- Engage local community in plantation and nursery operations
- Timber must be provided under TDS to the community
- Proper water supply for plantation

November 2018

2	Date	May 2 2018			
	Village	Manlog Badog			
	BLOCK	Kunihar			
	District	Solan			
	State	Himachal Pradesh			
	Range	Darlaghat			
	Location	Angan wadi Center Manlog Badog			
	T::	Start Time	12:30 PM		
	Timing	End Time 2:30 PM			
	Moderator	Gaurav Sharma			
	Documenter	Amit Sharma			

S. No.	Participant Name	Age	Gender	S. No.	Participant Name	Age	Gender
1.	Babali Devi	28	F	2.	Meera Devi	34	F
3.	Bhim Raj	37	M	4.	Nandi Devi	58	F
5.	Bimla	58	F	6.	Narinder	46	M
7.	Chander Pal	30	M	8.	Naval Kishor	35	M
9.	Dimple	18	F	10.	Pawan Kumar	30	M
11.	Hardai Devi	41	F	12.	Poonam Sharma	20	F
13.	Heena	20	F	14.	Premi Devi	40	F
15.	Hem Raj	39	M	16.	Reena Devi	26	F
17.	Hema Devi	30	F	18.	Rukmani	45	F
19.	Jai Devi	48	F	20.	Sapna	22	F
21.	Jai Ram	31	M	22.	Shanta Devi	49	F
23.	Jai Sharma	46	F	24.	Sheela Devi	44	F
25.	Jaya Sharma	37	F	26.	Sita Devi	37	F
27.	Kumar Sai	41	M	28.	Suman	33	F
29.	Lalita	20	F	30.	Taamana	21	F
31.	Leena Sharma	34	F	32.	Urmila	27	F
33.	Meena	39	F	34.	Vandna Sharma	20	F

Discussions

- Irrigation facilities are available in the village
- Productivity of crops is high but the Wild animals and monkeys destroy the crops.
- Forests are encroached by lantana which is growing uncontrollably

November 2018

- Forest department and villagers have made several attempts for controlling lantana but were unsuccessful.
- Forest fires are a frequent occurrence and because of the large number of pine trees which are prone to catch fire during the summers.
- Gram Pradhans call for the gram sabha meetings but when the people reach the venue they
 just make them sign the attendance register and leave

- Awareness camp be organized by the forest department
- Protection against wild animals must be ensured
- Private barren lands may be developed as plantation
- Fruit bearing and fodder rich plants must be planted in forest under plantation scheme
- Timber must be distributed on regular basis under TDS
- Dadu must be planted in the forest region

November 2018

3	Date	May 3 2018				
	Village	Shankar Dehra				
	BLOCK	Saraj				
	District	Mandi				
	State	Himachal Pradesh				
	Range	Karsog				
	Location	PWD Guest House Sankar Dehra	PWD Guest House Sankar Dehra			
	Timing	Start Time	10:30 AM			
	Timing	End Time 12:15 PM				
	Moderator	Gaurav Sharma				
1.	Documenter	Arun Tyagi				

S. No.	Participant Name	Age	Gender	S. No.	Participant Name	Age	Gender
1.	Bhafar Singh	60	М	2.	Usha Devi	23	F
3.	Daulat Ram	75	М	4.	Roshan Lal	27	М
5.	Devendra Kumar	20	М	6.	Devki Devi	51	F
7.	Devi Chand	47	М	8.	Krishan Kamar	30	М
9.	Durgesh Kumar	24	М	10.	Kheema Rau	43	М
11.	Gita Ram	25	М	12.	Bula Ram	58	М
13.	Goverdhan	78	М	14.	Balaram	58	М
15.	Karam Chand	54	М	16.	Bal Kridhan	25	М
17.	Khushiram	18	М	18.	Premlata	32	F
19.	Kishori Lal	34	М	20.	Chiut Ram	31	М
21.	Loharu Ram	54	М	22.	Koishana Kumar	37	М
23.	Nand Lal	23	М	24.	Manorma Devi	22	F
25.	Panalal	36	М	26.	Chandan Singh	22	М
27.	Pratap Singh	22	М	28.	Dharam Pal	55	М
29.	Tatarau	50	М	30.	Guddidevi	46	F
31.	Thakur Dass	52	М	32.	Bag Chand	18	М
33.	Totaram	40	М	34.	Gyani Devi	45	F

Discussions

November 2018

- Wheat, maize, potatoes, peas are major crops grown in the region
- Productivity of land is high due to availability of irrigation water
- Farmers sell excess produce to the local traders or in markets
- Illegal felling of trees is a concern in the region
- Villagers go to the forest to collect fodder and grass but their requirement is fulfilled from the roughages of the crops grown in their own land
- NTFP collection is not done by villagers.

- Medicinal and fruit bearing plants must be planted
- TD should be provided once every 10 years instead of regular 20 years
- Illegal felling of trees should be checked
- The village can be developed as an eco-tourism trek as the village lies on the route to two ancient and very famous temples.
- The guest house facilities and a proper trekking route would help in increasing the tourism activity in the region

November 2018

4	Date	May 3 2018				
	Village	Togi				
	BLOCK	Anni				
	District	Kullu				
	State	Himachal Pradesh				
	Range	Anni				
	Location	Community Centre Togi	Community Centre Togi			
	Timing	Start Time	11:30 AM			
	Timing	End Time 1:15 PM				
	Moderator	Lokesh Kumar				
	Documenter	Lokesh Kumar				

S. No.	Participant Name	Age	Gender	S. No.	Participant Name	Age	Gender
1.	Chandrakala	28	F	2.	Aparna	23	F
3.	SHREYA	20	F	4.	Maheshwari	22	F
5.	Jai Chand	54	М	6.	Minakshi	32	F
7.	Man Das	24	М	8.	Anup	62	М
9.	SANGEETA	19	F	10.	Tissi Devi	54	F
11.	Mayawati	22	F	12.	Mau Dassi	44	F
13.	Pawan Kumar	28	М	14.	Radhadevi	42	F
15.	Ravi	20	М	16.	Kalawati	22	F
17.	Ravina	30	F	18.	Bhagwati	40	F
19.	Santosh Kumar	45	М	20.	Bittu Devi	58	F
21.	Shyamdas	59	М	22.	Deepak	30	М
23.	Suma	58	F	24.	Sandipna	26	F
25.	Vimla Devi	50	F	26.	Mani Devi	65	F
27.	Virendra Kumar	33	М	28.	Sanjeev	39	М

Discussions

Wild animals and monkeys destroy the crops.

November 2018

• Forest fires are a frequent occurrence and because of the large number of pine trees which are prone to catch fire during the summers.

- Generate employment through nursery
- Organize awareness camps
- Do plantation of fruit bearing trees
- Construct a zoo for the animals caught by forest department
- Prevent forest from fire

November 2018

5	Date	May 2 2018					
	Village	Kandaghai					
	BLOCK	Anni					
	District	Kullu	Kullu				
	State	Himachal Pradesh					
	Range	Anni					
	Location	Market area, Kandaghai					
	Timing	Start Time	9:30 AM				
	Timing	End Time	11:30 AM				
	Moderator	Gaurav Sharma					
	Documenter	Lokesh Kumar					

S. No.	Participant Name	Age	Gender	S. No.	Participant Name	Age	Gender
1.	Depak	30	М	2.	Amar Chand	50	М
3.	Jagmohan	41	М	4.	Sandeep	21	М
5.	Nablu Devi	55	F	6.	Joginder Singh	60	М
7.	Ramavati	50	F	8.	Updesh	55	М
9.	Rattander	55	М	10.	Naraayandas	75	М
11.	Ravi	20	М	12.	Raejsh Kumar	45	М
13.	Santosh Kumar	45	М	14.	Dinesh Kumar	32	М
15.	Sumitra Devi	48	F	16.	Pritam Singh	30	М
17.	Sushma Devi	28	F	18.	Kanwar Singh	29	М
19.	Vijaj Kumar	26	М	20.	Daleep Kumar	42	М
21.	Vimla Devi	50	F	22.	Rajesh	31	М

Discussions

Wild animals and monkeys destroy the crops.

November 2018

- Forest fires are a frequent occurrence and because of the large number of pine trees which are prone to catch fire during the summers.
- No storage facilities near the village so the farmers have to store the apple crops at home.
- Apple stored at home last for 4 months

- Irrigation facilities must be generated
- Pastures may be developed and maintained so that sufficient grass is available as fodder for the livestock
- Fruit bearing trees and medicinal plants be planted in the forest
- Good variety of apples must be planted in nurseries and provided to the villagers for developing orchards
- Protection from wild animals particularly monkeys should be ensured
- Storage facilities be developed near the village.

Social Assessment and Management Framework – Final Report

November 2018

6	Date	May 2 2018						
	Village	Mandor Ghat						
	BLOCK	Basantpur						
	District	Shimla	Shimla					
	State	Himachal Pradesh						
	Range	Chandi						
	Location	Panchayat Center						
	Timing	Start Time	10:30 AM					
	Timing	End Time	12:30 PM					
	Moderator	Shiv Kumar						
	Documenter	Amit						

S. No.	Participant Name	Age	Gender	S. No.	Participant Name	Age	Gender
1.	Ramesh	34	М	2.	Savitri	46	F
3.	Pawan	27	М	4.	Bimla Devi	56	F
5.	Naval Kishor	35	М	6.	Urmila	27	F
7.	Puran Chand	74	М	8.	Meera Devi	45	F
9.	Kalyan Singh	41	М	10.	Lalita	24	F
11.	Heera lal	52	М	12.	Suman	24	F
13.	Dushiyant	25	М	14.	Kusum	21	F
15.	Bimla	45	F	16.	Prema Devi	62	F

Discussions

- Wild animals and monkeys destroy the crops.
- Forest fires are a frequent occurrence and because of the large number of pine trees which are prone to catch fire during the summers.

- Bush cutting must be done regularly
- Grass and plantation should be developed
- Medicinal plants be grown in forest
- Nursery in village would help in providing beneficial plants to the community members

7	Date	May 4 2018					
	Village	Kalpa					
	BLOCK	Kalpa					
	District	Kinnaur	Kinnaur				
	State	Himachal Pradesh					
	Range	Kinnaur					
	Location	Primary School					
	Timing	Start Time	12:30 pM				
	Timing	End Time	2:00 PM				
	Moderator	Shiv Kumar					
	Documenter	Lokesh Kumar					

S. No.	Name of Participant	Age	Gender	S. No.	Name of Participant	Age	Gender
1.	Balak Ram	25	М	2.	Thakur Singh	61	М
3.	Depender	28	М	4.	Sonika	30	F
5.	Harilal	34	М	6.	Manju	30	F
7.	Kesru Ram	53	М	8.	Dharm Lal	61	М
9.	Motilal	27	М	10.	Gulab Singh	54	М
11.	Raj singh	49	М	12.	Babita	32	F
13.	Shemsher Singh	63	М	14.	Sunila	55	F
15.	Sudershan	26	М	16.	Heera Devi	50	F
17.	Sushell Kumar	52	М	18.	Sukrmani	50	F

Discussions

- Storage facilities required near the village
- Villagers visit the forest to collect fodder and grass for their livestock
- Timber used to be distributed earlier but now timber is rarely distributed.
- Forest fires are a frequent occurrence and because of the large number of pine trees which are prone to catch fire during the summers.

- Grow more plants/forest
- Timber under TDS be distributed more frequently
- Awareness generation related to forest department activities and new plants being planted
- Effective measures be taken to protect forest from fires and in case of fire it must be controlled immediately

November 2018

- New plantations should be developed where medicinal plants, fruit bearing plants and fodder rich plants must be grown
- Prevent wild animals from entering the villages
- Pastures should be maintained so that sufficient grass is available for fodder to the livestock

8	Date	May 5 2018				
	Village	Rogi				
	BLOCK	Kalpa				
	District	Kinnaur				
	State	Himachal Pradesh				
	Range	Kalpa				
	Location	Rogi Village Panchayat				
	Tii a	Start Time	11:30 AM			
	Timing	End Time	1:15 PM			
	Moderator	Shiv Kumar				
	Documenter	RP Rai				

S. No.	Name of Participant	Age	Gender	S. No.	Name of Participant	Age	Gender
1.	Vinod Kumar	40	М	2.	Pamma	61	F
3.	Rampal Singh	45	М	4.	Savita	37	F
5.	Ashu kr	26	М	6.	Chander Kala	31	F
7.	Sushil	23	М	8.	Inder Devi	53	F
9.	Mahinder Singh	51	М	10.	Arav Bhatri	30	F
11.	Ram Krishan	55	М	12.	Nela Mani	73	F
13.	Sanju	19	М	14.	Sanumjan Mon	87	F
15.	Chering Dolms	56	F	16.	Shanty Devi	37	F

Discussions

- Apple is the main crop grown in the village
- Storage facilities are not available near the village
- Wild animals and monkeys destroy the crops.
- Forest fires are a frequent occurrence.
- In case of fires the villagers inform the forest department and join hands with the department in extinguishing the fire
- Employment opportunities are limited to opportunities under MGNREGA scheme
- People migrate to nearby tourist places during lean season for employment

- Irrigation facilities like check dams / ponds etc. must be developed in the forest region
- Engaging local community members in plantation activities will help generating employment
- Wood distribution to meet the needs of village

November 2018

- Awareness generation regarding the forest rights and policies should be organized
- Timber under TDS be distributed to all the villagers in need of the wood.

9	Date	May 6 2018				
	Village	Kafnu				
	BLOCK	Nichar				
	District	Kinnaur				
	State	Himachal Pradesh				
	Range	Rupi				
	Location	Kafnu village				
	T::	Start Time	10:30 AM			
	Timing	End Time	12:15 PM			
	Moderator	RP Rai				
	Documenter	Lokesh Kumar				

S. No.	Participant Name	Age	Gender	S. No.	Participant Name	Age	Gender
1.	Chitar Bhadur	44	M	2.	Rup Dassi	38	F
3.	Dhyaan Singh	57	M	4.	Chunijangmo	57	F
5.	Dhyaan Singh	57	M	6.	Mansukh Dev	42	M
7.	Jagt Singh	28	M	8.	Nardevni	52	F
9.	Khwam	40	M	10.	Pushpa	36	F
11.	Munna Kumar	34	M	12.	Kanta Devi	50	F
13.	Ranjeet Singh	47	M	14.	Bimla Devi	50	F
15.	Shanta Kumar	45	M	16.	Khwam	40	M
17.	Shawan Kumar	48	M	18.	Sarla Devi	63	F
19.	Shkh Dev	40	M	20.	Hemlata	38	F
21.	Tarun Kumar	27	M	22.	Jagat Singh	28	M

Discussions

- Major crops grown are apples, peas and pulses
- Apples are packed in wooden boxes and sold
- Apples are generally stored in homes and excess produce is sold to the local traders visiting the village
- Earlier timber was distributed under the TDS but this has stopped since the green felling has stopped by the forest department
- Storage facilities are not available near the village for storage of cash crops like apples

Expectations from Forest Department

Different type of plants should be planted in forest

November 2018

Timber be made available more frequently under TDS

10	Date	May 2 2018					
	Village	Chhota Khamba					
	BLOCK	Nichar					
	District	Kinnaur	Kinnaur				
	State	Himachal Pradesh					
	Range	Rupi					
	Location	Temple area Chhota Khamba					
	Timing	Start Time	2:30 PM				
	Timing	End Time	3:30 PM				
	Moderator	Gaurav Sharma					
	Documenter	Lokesh Kumar	Lokesh Kumar				

S. No.	Name of Participant	Age	Gender	S. No.	Name of Participant	Age	Gender
1.	Gayuv Devi	46	F	2.	Gembai Singh	28	М
3.	Sewani	27	F	4.	Vidya Sager	40	М
5.	Bhageerthi	36	F	6.	Geeta Ram	38	М
7.	Rajni Kumari	30	F	8.	Gian Singh	70	М
9.	Leela	60	F	10.	Rohit	30	М
11.	Ramlela	31	F	12.	Dev Chand	55	М
13.	Pojawati	35	F	14.	Vidhyachand	40	М
15.	Rampati	45	F	16.	Badri Sen	80	М
17.	Tringlama	36	F	18.	Mohan Lal	58	М
19.	Phulma Devi	33	F	20.	Ratan Singh	73	М
21.	Chandarueui	68	F	22.	Fakir Chand	40	М
23.	Bhagati Devi	65	F	24.	Lalita	26	F

Discussions

- Wheat and pulses are the major crops grown in the village
- Wild animals and monkeys destroy the crops.
- Employment opportunities are rare and is limited to opportunities available under MGNREGA]
- Villagers have to travel / walk 12 km to reach the road connecting nearest towns
- In case of emergency help of local villagers is taken to provide transport.
- People in the village work as laborers in plantation schemes of the Forest Department

- There is a high risk of big boulders in natural drains sliding onto the village and this may cause heavy damages
- There is a nursery in the village and some villagers also work in the nursery as laborers.
- Forest fires are a frequent occurrence and because of the large number of pine trees which are prone to catch fire during the summers.

- Good variety apple plants may be grown in the nursery and should be made available to the villagers
- Improve irrigation facilities in the village
- Forest Department must engage local communities so that they generate employment through participation in nursery and plantation activities
- Protection of villagers from wild animals must be ensured

11	Date	May 6 2018					
	Village	Bara Khamba					
	BLOCK	Nichar					
	District	Kinnaur					
	State	Himachal Pradesh					
	Range	Rupi					
	Location	Market area					
	Timing	Start Time	3:30 PM				
		End Time	4:15 P\M				
	Moderator	Gaurav Sharma					
	Documenter	Lokesh Kumar					

S. No.	Name of Participant	Age	Gender	S. No.	Name of Participant	Age	Gender
1.	Surat Ram	52	М	2.	Lal Wati	52	F
3.	Dev Kumar	29	М	4.	Suman Devi	32	F
5.	Basant Ram	37	М	6.	Ritesh Kumari	28	F
7.	Sunil Kumar	31	М	8.	Padam Kali	56	F
9.	Chet Ram	63	М	10.	Saijan Kumari	27	F
11.	Joginder Singh	33	М	12.	Anuradha	30	F
13.	Ratan Sen	80	М	14.	Rajkumar	38	М
15.	Arvind Kumar	38	М	16.	Sainsram	31	М
17.	Mahendra Singh	70	М	18.	Daulat Ram	33	М

Discussions

- Pulses and wheat is the major crop grown in the village
- Wild animals and monkeys destroy the crops.
- Productivity is good due to availability of natural sources of irrigation
- Forest fires are a frequent occurrence because of the large number of pine trees which are prone to catch fire during the summers.
- Distance from the road is high and the villagers have to walk or travel and it takes more than 2 hours to reach the road by personal vehicle
- The bridge over natural drain connecting forest should be built to allow access to nearest forests for collection of fodder for livestock
- Rupi being a wildlife is out of bounds for villagers and hence they do not go to Rupi range for collection of forest produce and fodder

November 2018

- Fruit bearing plants should be grown in the nursery and should be made available to the villagers
- Fencing around the village as protection from wild animals
- Path to forest may be developed and bridge constructed over the drain.
- Plantation should be done in forest and local community members be engaged to ensure employment
- Check dams / irrigation facilities must be developed
- Plantation in landslide zones for slope stabilization be done
- Awareness campaign / training camps be organized for the villagers

8.7 Annexure 7: Summary of Public Consultation and Disclosure Workshop

Event: Public Consultation and Disclosure Workshop – Social Assessment

and Management Framework for HPFPP

Date: October 15, 2018

Venue: Community Hall, Thana Kalan, District Una, Himachal Pradesh

Participants: 54 (list of participants is attached)

Discussions:

Chief Project Director Mr. Sameer Rastogi opened the session and welcomed all participants and explained the purpose of the meeting. He explained about the project and its components to all the participants.

The Consultant Team presented the Approach and Methodology adopted in conducting the Social Assessment for preparation of the Social Management Framework.

The sampling strategy and size was explained in detail, as to how the stratified sampling technique was used to identify and select the samples to ensure the participation of different stakehodlers in the village with varuing socio-economic backgrounds. An analysis of the data and findings of the study and consultations were explained and discussed in detail along with the impacts, risks and the prposed mitigation/ maageament measures. Expectations of the villagers in the sampled villages and their problems were explained in details.

The participants shared that the *forest fires and transgressing of forest areas by lantana* was major problems that they are also facing. The CPD discussed about the methods adopted by Forest department to clear lantana by cutting the roots of the plant during February and March as during this time the lantana plant does not grow and the wood may be used by the villagers as fuel wood.

The participants opined that the seeds of the plant often re-germinate in favorable season and the problem would not be resolved alternatively, if the plant is uprooted during July – August when there is moisture in the soil instead of cutting the root the problem can be solved. One of the participant suggested that after the removal of the lantana plant if Aloe Vera is planted in the affected areas the lantana would not grow again in that area. The CPD suggested that the trials of this technique may be carried out to see the impact of Aloe Vera in controlling lantana on a pilot basis.

Pine trees are a major cause of forest fires in the hills during summer season as the tree sheds its needles in this period and these needles are highly combustible. The fires are facilitated by burning of crop stubble and ignorant people who would not hesitate to light a fire near the pine leaves. One suggestion from the participant was to clear the pine leaves by engaging the local villagers which would generate employment for the villagers.

Another suggestion for controlling the forest fire was to build small tanks/ponds in the forest area which are fed by the natural drains and rainfall as the water collected in these tanks

could be used not only for extinguishing fire but would also help in irrigating the new plantations and also improve the ground water situation in the areas at slopes where water would normally run-off without recharging the ground water.

Participants suggested that the **awareness campaigns** to prevent fire should be conducted for the local villagers

The Resettlement Planning Framework and Tribal Development Framework prepared as a part of the Social Assessment study was explained to the participants. It was made clear that no privage land or land under disputes will be used for the project pruposes. Grievance Redressal Mechanism and the proposed structure for redressal at different levels were discussed during the consultation.

The consultation ended with vote of thanks from the Deputy Project Director Mr. Rahul Sharma.

List of Participants

S. No.	Name	Husband / Father's Name	Gen der	Village	GP	Contact
1	Smt. Manju Angra	VK Angra	F	Thana Kalan	Thana Kalan	780745964
2	Smt. Ishu Kumari	Ajay Kumar	F	Thana Kalan	Thana Kalan	9817149621
3	Smt. Sonia	Mukesh Kumar	F	Thana Kalan	Thana Kalan	8679351003
4	Pankaj	Suresh Kumar	М	Bhusal	Chaprah	7807017792
5	Surjeet Singh	Kartar Singh	М	Bhusal	Chaprah	9816047185
6	Naresh	Batlan Singh	М	Harinagar	Thana Kalan	9805157202
7	Piyara	Shiva Sram	М	Manjhar	Thana Kalan	
8	Vijay Kumar	Hukum Chand	М	Manjhar	Thana Kalan	9805491740
9	Mohinder Singh	Dhani Ram	М	Manjhar	Thana Kalan	9816478703
10	Ajay Kumar	Brahmanand	М	Manjhar	Thana Kalan	9862081474
11	Harbans Lal	Milkhi Ram	М	Dharoh	Chamyari	7807424885
12	Santosh Kumar	Ram Ashrey	М	Chhaprah Kalan	Chaprah	8894550816
13	Ratan Chand	Ram Ashrey	М	Dadyar	Tanoh	9805483775
14	Ramesh Chand	Prakash Chand	М	Arhjana	Lathyani	9459460470
15	Bheem Singh	Khajan Singh	М	Kotli	Palala	9816562310
16	Neel Kamal	Lal Chand	М	Thana Kalan	Thana Kalan	8894697197
17	Bishan Das	Basanth Ram	М	Balh	Thana Kalan	
18	Smt. Usha Devi	Mohinder Singh	F	Manjhar	Thana Kalan	7807434674
19	Smt. Sarla Devi	Late Sh. Ashok Kumar	F	Thana Kalan	Thana Kalan	9817093633
20	Ankush Singh	Saojat Singh	М	FG Riploo Beat	Bangana Range	9418956673
21	Muhdu		М	FG Arlroo Beat	Bangana Range	9805742394
22	Lalit Kumar		М	Thana Kalan	Thana Kalan	9625451999
23	Vineet Kumar		М	Chhaprah Kalan	Chaprah	8628873052
24	Devender Singh Chauhan		М			9418468101
25	Hoshiyar Singh	Ratan Singh	М			9625109599
26	Surender Kumar	Madho Ram	М			8894204691
27	Smt. Rajkumari		F	Pradhan Phatha		9817106542
28	Baneshwar Singh		М			9415065219
29	Balwant Verma		М	Chapprah Kalan	Chaprah	9418179110
30	Krishan Pal Singh		М			9805782777
31	Ms. Pinki Sharma		F	SEO	HPFD	9318651044
32	Smt. Parul Sharma		F	SEO	HPFD	9816665039

207

November 2018

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S. No.	Name	Husband / Father's Name	Gen der	Village	GP	Contact	
33	Sharda		М	SEO	HPFD	9418076093	
34	Ms. Anita		F	SEO	HPFD	8219597025	
35	Yashpal		М	RFO	HPFD	941849133	
36	Sanjeev Singh		М	RFO	HPFD	9418312374	
37	Sameer Rastogi		М	CPD	HPFD	9418117690	
38	Rahul Sharma		М	DPD	HPFD		
39	Smt. Baby	Ranjeet Singh	F	Thana Kalan	Thana Kalan	9816117448	
40	Smt. Raj Rani	Amit Rana	F	Thana Kalan	Thana Kalan		
41	Smt. Namrata Devi	Surinder	F	Thana Kalan	Thana Kalan	9816672236	
42	Sonu Kumar	Amrit Singh	М	Thana Kalan	Thana Kalan	9805014017	
43	Sunil Kumar	Roshan Lal	М	Thana Kalan	Thana Kalan	7580092762	
44	Smt. Shakuntla Devi	Ishwar	F	Thana Kalan	Thana Kalan		
45	Smt. Kanta Devi	Roshan Lal	F	Thana Kalan	Thana Kalan		
46	Ajit Kumar		М	Bangana			
47	Asif Bhatti		М	FG Kanaura Beat		8262885213	
48	Manish Kumar		М	FG Panyala Beat		7018708018	
49	Ajay Kumar		М	FG Selasing Beat	Bangana Range	9625979003	
50	Suresh Kumar		М	FG Kariara Beat	Ramgarh	8219282304	
51	Ajit Singh Rana		М	Dy. Ranger		9816507728	
52	Amar Nath Sharma		М	Dy. Ranger		9418156894	
53	Pargat Singh		М	Thana Kalan	Thana Kalan	9817828709	
54	Rajesh Kumar	Pyare Lal	М	Jhaleda			