



Management Plan of Annapurna Conservation Area FY 2080/81-2084/85



Government of Nepal
Ministry of Forests and Environment
Department of National Parks and Wildlife Conservation

National Trust for Nature Conservation
Annapurna Conservation Area Project

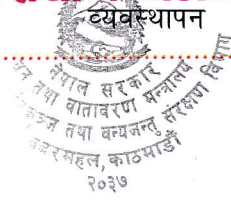


नेपाल सरकार
वन तथा वातावरण मन्त्रालय
राष्ट्रिय निकुञ्ज तथा वन्यजन्तु संरक्षण विभाग

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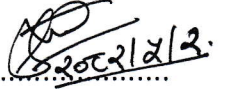
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विषय: व्यवस्थापन योजना स्वीकृत सम्बन्धमा।

श्री राष्ट्रिय प्रकृति संरक्षण कोष,
खुमलटार, ललितपुर।

प्रस्तुत विषयमा तहाँ कोषको च.नं. ८७६ मिति २०८२/३/६ को पत्रसाथ अन्नपूर्ण संरक्षण क्षेत्रको व्यवस्थापन योजना (२०८०/८९ - २०८४/८५) र मनास्लु संरक्षण क्षेत्रको व्यवस्थापन योजना (२०८०/८९ - २०८४/८५) को अन्तिम मस्यौदा स्वीकृतीको लागि यस विभागमा निर्णयार्थ पेश हुन आएको फाईल उपर कारवाही हुँदा व्यवस्थापन योजनाको प्रचलित कानून बमोजिम वातावरणीय अध्ययन प्रतिवेदन स्वीकृत भए पश्चात लागु हुने गरि राष्ट्रिय निकुञ्ज तथा वन्यजन्तु संरक्षण ऐन, २०२९ को दफा ३(१क) प्रयोजनको लागि यस विभागको मिति २०८२/५/१ को निर्णयानुसार स्वीकृत भएको व्यहोरा आदेशानुसार अनुरोध छ। स्वीकृत व्यवस्थापन योजनाको प्रचलित कानून बमोजिम वातावरणीय अध्ययन प्रकृया अगाडि बढाउन समेत निर्णयानुसार अनुरोध छ।



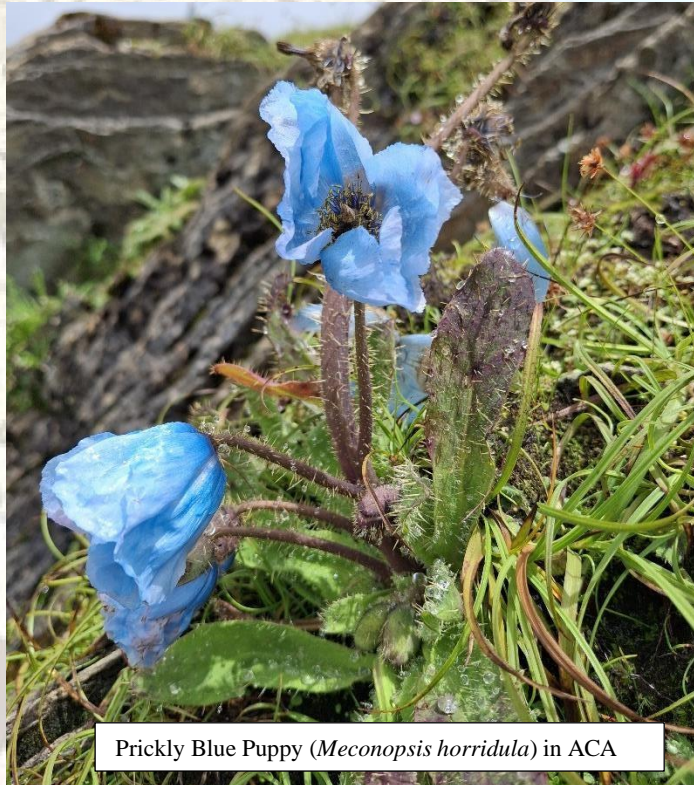
(रोशन सिंह ठगुन्ना)
व्यवस्थापन अधिकृत

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Prickly Blue Pupa (*Meconopsis horridula*) in ACA



Government of Nepal
Ministry of Forests and Environment
Department of National Parks and Wildlife Conservation

National Trust for Nature Conservation
Annapurna Conservation Area Project



Jhong cave in Chhoser, Upper Mustang

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FY 2080/81-2084/85**

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Cover Photo: Plantation by NTNC-ACAP in Upper Mustang (Lomanthang).



Government of Nepal
Ministry of Forests and Environment
Department of National Parks and Wildlife Conservation
Baharmahal, Kathmandu



FOREWORD

It gives me immense pleasure to present the *Annapurna Conservation Area Management Plan (2080/2081–2084/2085)*, a comprehensive strategic framework that will guide the sustainable management, conservation, and development of Nepal's largest and most diverse protected area. This plan builds on the rich legacy of community-based conservation that the Annapurna Conservation Area (ACA) has pioneered since its establishment.

ACA is globally recognized for integrated conservation and development program model. Home to exceptional biodiversity, vibrant cultures, and majestic Himalayan landscapes, the area reflects the dynamic interplay between people and nature. In the past decades, the participatory approach of involving local communities in conservation efforts has brought notable success in biodiversity protection, ecotourism development, and sustainable livelihoods.

The development of this management plan was driven by an inclusive and collaborative process, engaging local communities, government institutions, conservation partners, and researchers. It sets forth clear goals and strategies to address emerging challenges such as climate change impacts, unmanaged tourism activities, human-wildlife conflict, and unplanned infrastructure development. The plan also places a strong emphasis on ecosystem restoration, sustainable tourism, cultural heritage conservation, and improved governance mechanisms.

I would like to acknowledge the dedicated efforts of the National Trust for Nature Conservation–Annapurna Conservation Area Project (NTNC-ACAP), local conservation committees, and all stakeholders who contributed their valuable insights and commitment to this plan. The Department of National Parks and Wildlife Conservation remains committed to providing the necessary policy support and coordination to ensure the successful implementation of this management plan.

Let this document serve not only as a roadmap for conservation action but also as a reaffirmation of our shared responsibility to protect the Annapurna region for current and future generations. Together, we can ensure that the Annapurna Conservation Area continues to thrive as a beacon of people-centered conservation in the Himalayas.

Ramchandra Kandel, PhD
Director General
Department of National Parks and Wildlife Conservation
Government of Nepal



Department of National Parks and Wildlife Conservation
National Trust for Nature Conservation
Annapurna Conservation Area Project



ACKNOWLEDGEMENTS

As the Project Chief of the Annapurna Conservation Area Project (ACAP), it is great pleasure to present the **Annapurna Conservation Area Management Plan 2080/81-2084/85**, a strategic document prepared with the objective of conserving biodiversity, promoting sustainable tourism, and enhancing the livelihoods of local communities within this unique and ecologically sensitive landscape.

The preparation of this Management Plan has been a collaborative effort involving a wide range of stakeholders. I would like to express my sincere gratitude to Dr. Ram Chandra Kandel, DG-DNPWC, and the entire Department of National Parks and Wildlife Conservation (DNPWC) and Dr. Naresh Subedi, MS-NTNC, and the whole National Trust for Nature Conservation (NTNC) for their continued guidance and institutional support.

My heartfelt thanks go to the local communities, 15 Rural Municipalities & 87 Wards, Conservation Area Management Committees (CAMCs), community-based organizations, and local government bodies who shared their invaluable knowledge and experiences during consultations and field visits. Their active participation and ownership have been instrumental in ensuring the plan reflects local priorities and conservation realities.

I would also like to acknowledge the technical team, researchers, and conservation experts who contributed their expertise in drafting, reviewing, and finalizing this document. Special appreciation is extended to our Unit Conservation Offices (UCOs) staff, who work tirelessly under challenging conditions to implement conservation and development activities on the ground.

Finally, I thank all our development partners, donors, and collaborators whose support has enabled the continuous functioning of ACAP and the successful formulation of this management plan.

We are confident that the strategies and actions outlined in this document will serve as a guiding framework for the effective management of the Annapurna Conservation Area over the coming years, ensuring its ecological integrity and cultural richness for future generations.

Rabin Kadariya, PhD
Project Chief



DNPWC Approval Letter Here

Executive Summary

Annapurna Conservation Area (ACA) is situated in the western region of Nepal, covering 5.18% of the country's area. ACA was officially declared in 1992, covering 7,629 km², including 5 districts and 15 Rural Municipalities within Gandaki Province. The National Trust for Nature Conservation (NTNC) manages it under the National Parks & Wildlife Conservation Act (NPWCA) 1972 and the Conservation Area Management Regulation 1996.

ACA is rich in natural and cultural heritage, featuring the Annapurna range, Kaligandaki Gorge, sacred wetlands, unique biodiversity, cultural monuments, and ethnic settlements. 1856 plant species, 128 mammals, 523 birds, 30 amphibians, 50 reptiles, 384 butterflies, and 28 fish species are recorded from ACA.

It is home to 77,291 people from 36 ethnic groups, making it a popular tourist destination in Nepal. Previous management plans have empowered communities to integrate conservation with development, enhancing local capacity for forest management, species conservation, ecotourism, and various enterprises. Communities manage 1160.5 km² of forests and critical habitats and are active in conservation efforts.

ACA faces multiple challenges, including unsustainable resource use, climate change impacts, rising human-wildlife conflict, unsustainable tourism practices, and unplanned infrastructure development. This management plan addresses these issues with a bottom-up approach.

The plan focuses on five key themes: Species Conservation; Protected area and Ecosystem Management; Conservation Economy; Climate Actions; and Research, Education & Knowledge Management, along with three crosscutting themes: Gender Equity & Social Inclusion, Governance, and Health and sanitation.

Objectives include strengthening governance, conserving socio-ecological prosperity, developing local institutions, supporting community infrastructure and ecotourism, and enhancing research documentation. The estimated budget required for the implementation of this management plan is NPR 2,92,02,50,160 which has been planned to cover primarily through the income made through ACA entrance fee and support provided by conservation partners and federal, provincial, and local government agencies. This plan aims for strong communication and coordination among the local government, line agencies, and private entities for the ACA's plan implementation.

कार्यकारी सारांश

अन्नपूर्ण संरक्षण क्षेत्र नेपालको पश्चिमी क्षेत्रमा अवस्थित छ, जसले देशको ५.१८% क्षेत्रफल ओगटेको छ। यो सन् १९८६ मा घान्द्रुकमा पाइलट परियोजनाको रूपमा सुरु भएको थियो र कूल क्षेत्रफल ७,६२९ वर्ग कि.मी. रहने गरी गण्डकी प्रदेशका ५ जिल्ला र १५ गाउँपालिका समावेश गर्दै, सन् १९९२ मा अन्नपूर्ण संरक्षण क्षेत्रको आधिकारिक रूपमा घोषणा गरिएको थियो। राष्ट्रिय निकुञ्ज तथा वन्यजन्तु ऐन २०२९ र संरक्षण क्षेत्र व्यवस्थापन नियमावली २०५३ अन्तर्गत रहि राष्ट्रिय प्रकृति संरक्षण कोषले यस क्षेत्रको व्यवस्थापन गर्दै आएको छ।

अन्नपूर्ण संरक्षण क्षेत्र सांस्कृतिक तथा प्राकृतिक सम्पदाले भरिपूर्ण रहेको छ। यस क्षेत्रमा अत्यन्तै रमणीय अन्नपूर्ण हिमशृङ्खला, कालीगण्डकी गल्छी, पवित्र तथा धार्मिक सिमसारहरू, मनमोहक सांस्कृतिक बस्तीहरू, र अद्वितीय जैविक विविधता आदिको सम्मिश्रण रहेको छ। यस क्षेत्रमा १८५६ प्रजातिका वनस्पति, १२८ प्रजातिका स्तनधारी, ५२१ प्रजातिका चरा, २९ प्रजातिका उभयचर, ४९ प्रजातिका सरीसृप, ३८४ प्रजातिका पुतली, र २८ प्रजातिका माछाहरू अभिलेख गरिएका छन्।

३६ समुदायका ७७,२९१ मानिसहरूको बसोबास रहेको यो क्षेत्र नेपालको एक लोकप्रिय पर्यटकीय गन्तव्य हो। अघिल्ला व्यवस्थापन योजनाहरूले समुदायहरूलाई संरक्षणलाई विकाससँग एकीकृत गर्न, वन व्यवस्थापनको लागि स्थानीय क्षमता अभिवृद्धि गरी प्रजाति संरक्षण, पारिस्थितिक पर्यटन, र विभिन्न उद्यमहरूका लागि सशक्त बनाएको छ। समुदायहरूले ११६०.५ वर्ग कि.मी. वन र महत्वपूर्ण बासस्थानहरू व्यवस्थापन गर्छन् र संरक्षण प्रयासहरूमा सक्रिय छन्।

यद्यपि, अन्नपूर्ण संरक्षण क्षेत्रले प्राकृतिक स्रोतको अधिक प्रयोग, जलवायु परिवर्तनको प्रभाव, बढ्दो मानव-वन्यजन्तु द्वन्द्व, अस्थिर पर्यटन अभ्यासहरू, र योजनाविहीन पूर्वाधार विकास जस्ता चुनौतीहरूको सामना गरिरहेको छ। यो व्यवस्थापन योजनाले सरोकारवालाहरूलाई समावेश गरी Bottom-Up दृष्टिकोणबाट यी मुद्दाहरूलाई सम्बोधन गर्दछ।

यो योजना पाँच मुख्य विषयवस्तु र तीन क्रसकटिड (cross-cutting) विषयवस्तुमा केन्द्रित छ। प्रजाति संरक्षण; संरक्षित क्षेत्र र पारिस्थिकिय प्रणाली व्यवस्थापन; संरक्षण अर्थव्यवस्था; जलवायु कार्यहरू; र अनुसन्धान, शिक्षा र ज्ञान व्यवस्थापन जस्ता विषयहरू मुल रूपमा र तीन क्रसकटिड थिमहरू: लैङ्गिक समानता र सामाजिक समावेशीकरण; शासन; र स्वास्थ्य तथा सरसफाइ समावेश गरिएका छन्।

सुशासनको सुदृढीकरण, सामाजिक-पारिस्थितिक समृद्धिको संरक्षण, स्थानीय संस्थाहरूको विकास, सामुदायिक पूर्वाधार र पर्यापर्यटनमा सहयोग गर्नुका साथै अनुसन्धान तथा दस्तावेज अभिवृद्धि गर्ने लगायतका उद्देश्यहरू यस योजनामा समावेश छन्। यस योजनाको अनुमानित समग्र बजेट रु. २,९२,०२,५०,१६० रहेको छ, जसमध्येको ठूलो हिस्सा प्रवेश अनुमति शुल्क बाट र बाँकी रकम अन्य संरक्षण साभेदार तथा विभिन्न तहका सरकार मार्फत पूरा हुने अपेक्षा गरिएको छ। यस योजनाले ACA को सामाजिक-पारिस्थितिक समृद्धिको लागि स्थानीय सरकार, लाइन एजेन्सीहरू र निजी संस्थाहरू बीच बलियो सञ्चार र समन्वय गर्ने लक्ष्य राखेको छ।

Acronyms and Abbreviations

'	Minute	LAPA	Local Adaptation Plan of Action
%	Percent	m	Meter
°	Degree	MCCTCC	Multi-Stakeholder Climate Change Initiative Coordination Committee
°C	Degree Celsius	MDCJsC	Musk Deer Conservation Joint Sub-Committee
ABC	Annapurna Base Camp	MHMSc	Micro Hydro Management Sub-Committee
ACA	Annapurna Conservation Area	MMsC	Museum Management Sub-Committee
ACAMR	Annapurna Conservation Area Management Regulation	MoE	Ministry of Environment
		MT	Metric Ton
ACAP	Annapurna Conservation Area Project	MoEST	Ministry of Environment, Science & Technology
ADB	Asian Development Bank	MoFE	Ministry of Forest and Environment
BCN	Bird Conservation Nepal	N	North
CA	Conservation Area	NABSAP	Nepal Biodiversity Strategy & Action Plan
CAMC	Conservation Area Management Committee	NAPA	National Adaptation Program of Action
CAMR	Conservation Area Management Regulation	NATTA	Nepal Association of Tour & Travel Agents
CBD	Convention on Biological Diversity	NMA	Nepal Mountaineering Association
CBS	Central Bureau of Statistics	NMJsC	Namgya Kharka Management Joint Sub Committee
CC	Climate Change	NP	National Park
CCC	Climate Change Council	NPWCA	National Park and Wildlife Conservation Act
CCMsC	Community Campsites Management Sub-Committee	NTFP	Non-timber Forest Product
CFMsC	Conservation Farmers Management Sub Committee	NTNC	National Trust for Nature Conservation
CHsC	Community Health Sub Committee	PA	Protected Area
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora	PMsC	Pasture Management sub-Committee
CLMsC	Community Lodge Management Sub-Committee	RCC	Reinforced Cement Concrete
DCC	Day Care Center	RCO	Regional Conservation Offices
DCMsC	Day Care Management Sub-Committee	REDD	Reducing Emissions from Deforestation and Degradation
DDC	District Development Committee	SATO	Society of Adventure Tour Operators Association/Nepal
DFO	Division Forest Office	SCG	Saving Credit Group
DNPWC	Department of National Parks and Wildlife Conservation	SDWMsC	Safe Drinking Water Management Sub-Committee
DPR	Department of Plant Resources	SLCsC	Slow Leopard Conservation Sub Committee
E	East	SLMsC	Solar Light Management Sub-Committee
FY	Financial Year	SMMsC	Solar Mill Management Sub-Committee
EPA	Environmental Protection Act	SNV	Stichting Nederlandse Vrijwilligers (Netherlands Development Organization)
EPR	Environmental Protection Regulation	STEC	Sanctuary Tourism Entrepreneurs Committee
FMsC	Forest Management Sub-Committee	TAAN	Trekking Agencies Association of Nepal
GFMsC	Goat Farming Management Sub-Committee	TEAM	Tourism Entrepreneurs Association of Manang
GFC	Green Force Club	TMsC	Tourism Management Sub Committee
GIS	Geographic Information System	Tea MsC	Tea Management Sub-Committee

GoLF	Glacial Lake Outburst	ToR	Terms of Reference
GoN	Government of Nepal	TREGAN	Trekking Guide Association of Nepal
HAN	Hotel Association of Nepal	TU	Tribhuvan University
HQ	Headquarter	TURGAN	Tourist Guide Association of Nepal
ICDP	Integrated Conservation and Development Program	UCO	Unit Conservation Office
ICIMOD	International Centre for Integrated Mountain Development	UNDP	United Nations Development Program
IEE	Initial Environmental Examination	UNEP	United Nations Environmental Program
IGA	Income Generation Activities	VDC	Village Development Committee
IUCN	International Union for Conservation of Nature	VITO	Village Tourism Promotion Forum Nepal
JICA	Japan International Cooperation Agency	VSPG	Vegetable Seed Production Group
KDMsC	Kerosene Depot Management Sub-Committee	WB	World Bank
km	Kilometers	WCMC	World Conservation Monitoring Center
		WG	Women Group
		WWF	World Wide Fund for Nature



Chorten in Mustang

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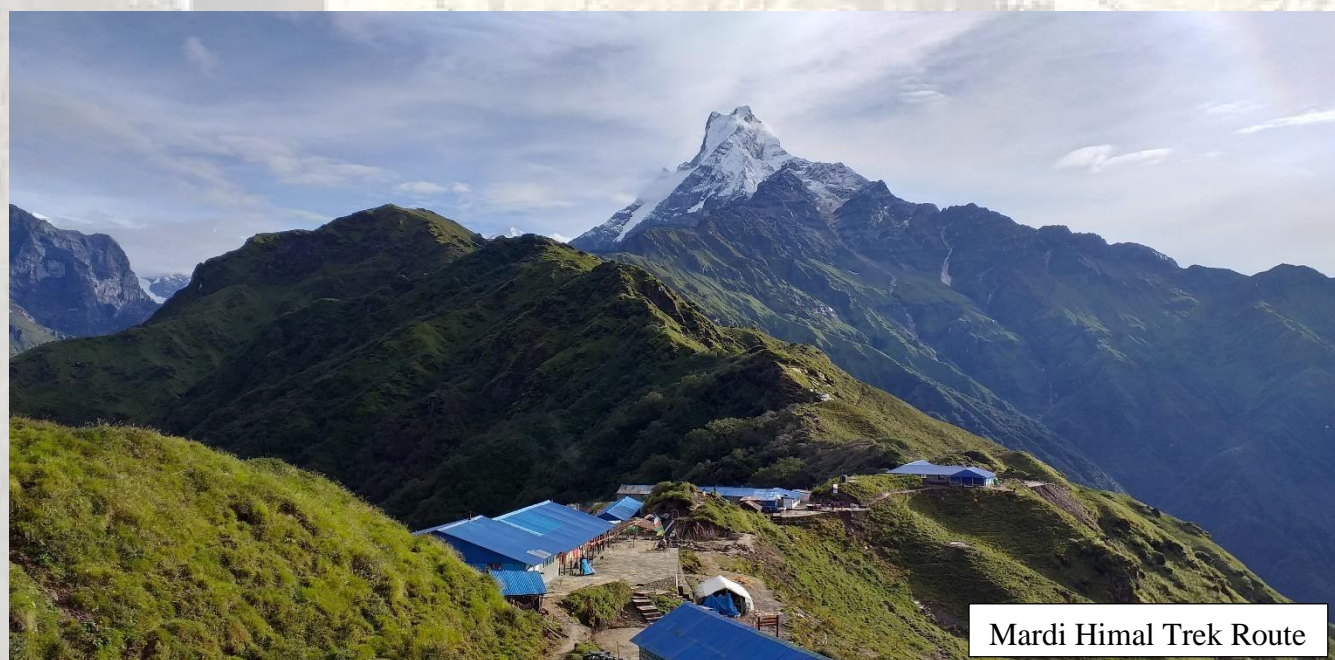
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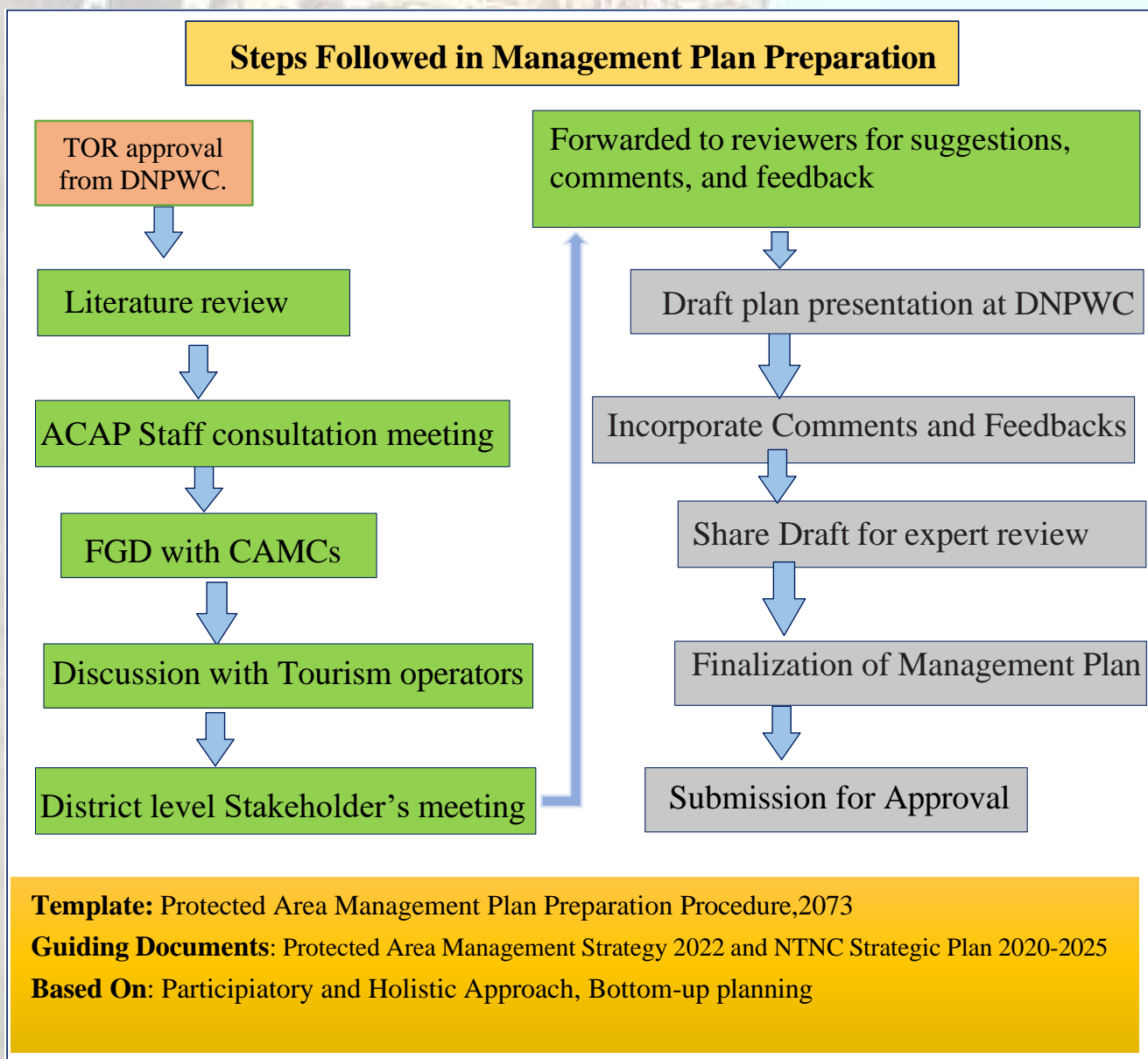
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Mardi Himal Trek Route

Process of Management Plan Preparation

The Management Plan for Annapurna Conservation Area (2080/81-2084/85) is the outcome of the team effort of the individuals representing various organizations and groups. It is prepared following the template of Protected Area Management Plan Preparation Procedure, 2073. In due course a participatory approach was adopted in preparing the third management plan for ACA. Protected Area Management Strategy 2022-2030 and National Trust for Nature Conservation (NTNC) strategic plan 2020-2025 are the main guiding documents for conceptualizing vision, goal, and devising strategy and plan activities. The plan is based on a holistic approach and envisages a bottom-up planning process. It has been prepared with the active involvement of the communities, relevant government agencies, NGOs, technicians, social activists, tourism entrepreneurs, community organizations, and other stakeholders.





PART-A Existing Situation

CHAPTER 1: INTRODUCTION OF THE PROTECTED AREA

1.1. Name, Location, Constitution, and Extent

1.1.1. Name

Annapurna Conservation Area (ACA). The name is inspired by the 55-kilometer (km) long Annapurna massif consisting of Mt. Annapurna (8091) meters (m), the 10th highest peak in the world.

1.1.2. Location

The ACA is situated in the Western region of Nepal and falls entirely within the Gandaki Province (5 Districts & 15 Rural Municipalities). Its geographical location is between 83°34' to 84°25' E longitude and 28°15' to 28°50' N latitude. The location map of the ACA is shown in Fig. 1.

1.1.3. Constitution and Extent

The Government of Nepal granted an authority to manage ACA to National Trust for Nature Conservation (NTNC) which was established in 1982 by a Legislative Act with a mandated to work in the field of nature conservation in Nepal. NTNC initiated a pilot project in Ghandruk in 1986 using the Integrated Conservation and Development Program approach, which was later expanded and officially gazetted as the Annapurna Conservation Area in 1992. It is Nepal's first and largest Conservation Area (CA), covering an area of 7,629 km² (5.10% of the country's total land area and 22% of Nepal's PA). Marsyangdi Valley borders ACA to the east, Kali Gandaki River to the west, the dry alpine desert of Dolpa district and Tibet to the north, and the valley and foothills of Pokhara to the south. Maximum extension is 115 km north-south and 94 km east-west, with an altitude range ranging from 790 masl (Madi Valley) to 8091 masl (Annapurna I). The constituencies of the ACA are presented in Table 1.

Table 1: Districts and Municipalities which falls within ACA

S.N.	Districts	Rural Municipalities (RM)	Wards	Total Wards
1	Kaski	Annapurna RM Machhapuchhre RM Madi RM	6-11 1-5, 7-9 1,2,6 (3,7,8,10,11 Partially)	22
2	Lamjung	Kwhola Sothar RM Marshyangdi RM	4-6 (3,8 Partially) 1-4 (9 Partially)	10
3	Manang	Manag Ngisyang RM Narpa Bhumi RM Chame RM Nason RM	1-9 1-5 1-5 3-9 (1 Partially)	27
4	Mustang	Lomanthang RM Lo Ghekar Damodarkunda RM Varagung Muktichhetra RM Gharpajhong RM Thasang RM	1-5 1-5 1-5 1-5 1-5	25
5	Myagdi	Annapurna RM	4-6	3
Total				87

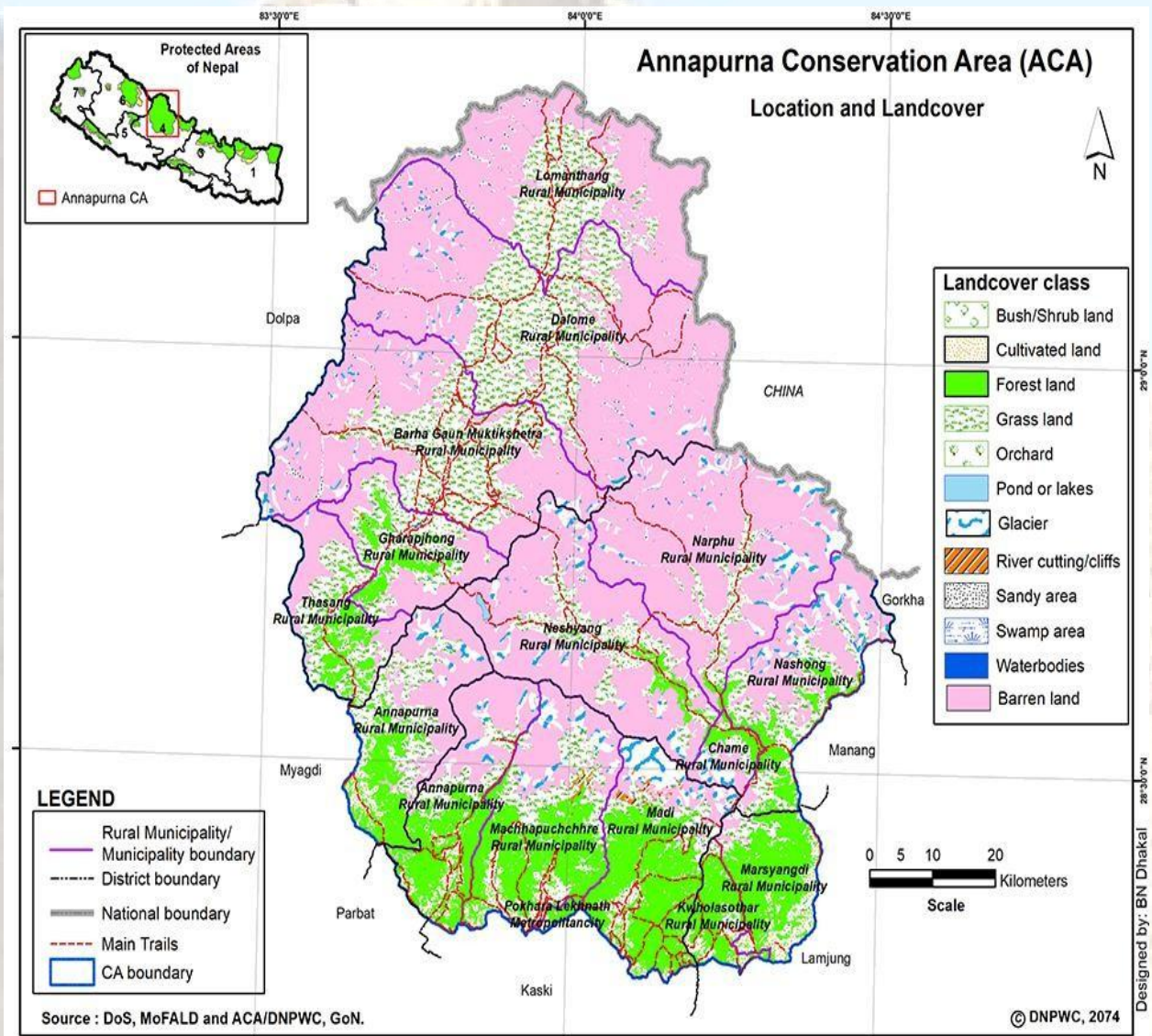


Figure 1: Location Map of ACA

1.2. Access

The area is accessible both by air and land routes. Visitors from elsewhere, except those from Tibet-China, must make Pokhara their first transit point before entering the ACA. The trip is approximately 200 km by bus, taking 6-8 hours, or a 30-minute flight from Kathmandu. Various public transportation options are available from Pokhara to the Unit Conservation Offices (UCOs), including Ghandruk, Jomsom (Mountain flights from the Pokhara domestic airport), Lwang, and Sikles. To access Lomanthang, it is necessary to change vehicles at Jomsom. For unit offices such as Bhujung and Manang, Besisahar (Lamjung) is the recommended transit from where early jeep service is available to these units.

1.3. Statement of Significance

The ACA is a special biodiversity destination in Nepal where the east and west Himalayas, as well as the Tibetan and Gangetic regions, converge. This convergence creates a major divide in plant and bird distributions, leading to the mix of species assemblage typical of both regions. The altitudinal range of 790masl-8091masl offers a diverse climate and biodiversity, it holds the entire climatic zones/forest types/vegetation from sub-tropical Sal forests to perennial snow. It contains the world's largest Rhododendron Forest (Ghorepani section), harbors rare and endangered wild animals, and has the highest biological endemism in Nepal. The ACA encompasses several natural wonders, including the world's deepest river gorge Kali Gandaki (2.4 km wide and 4.8 km long), the world's highest-altitude freshwater lake, Tilicho, some of the highest and beautiful snow peaks such as Mt. Annapurna, Mt. Machhapuchhre as well as the repository of Ammonoid fossils from the prehistoric Tethys Sea, dating back 60 million years in the Kali Gandaki River valley. Besides, ACA is significantly rich in cultural diversity with Tibeto-Burmese and Indo-Aryan ethnic groups such as Gurung, Magar, Tamang, Lhopa, Manangey, Brahmin, Kshetri, Biswokarma, Pariyar, etc. It recognizes the people's role in conservation and has now become a successful model of the Integrated Conservation and Development Programme (ICDP). It is one of the best trekking destinations in the whole world. A brief synopsis of the ACA is given below in Table 2.

Table 2: Synopsis of ACA

FEATURES	DESCRIPTIONS
Location	Longitude: 83°34' to 84°25'E; Latitude: 28°15' to 28°50' N; The northern section of the Gandaki province, Nepal
Establishment Year	December 1986, established as a pilot project
CA Declaration Year	1992; declared as the first CA of Nepal, IUCN Category VI
CA Directorate	Pokhara, Kaski district. NTNC is the Management Authority
Area & Extent	7,629 km ² ; the largest PA of Nepal accounts for 5.18% of the total area of Nepal, 35.10% of Gandaki Province
Maximum Extension	North-South 115 km, East-West 94 km
District	5 districts (Kaski, Lamjung, Manang, Mustang & Myagdi)
RM	15 RMs and 87 wards
Population (RM)	114,766 in 31873 households, Average Population per HH: 3.60
Ethnicity	Major ethnic groups: 36. Ghandruk is the most ethnically diverse UCO. Gurung & Magar are the major groups in the south; Thakali, Manange, and Lhopa in the north, and Brahmin, Kshetri, etc. are sparsely spread across the southern part of ACA
Elevation	Lowest:790 masl (Madi Valley); Highest: 8,091 masl (Annapurna I)
Climate Features	6 zones (Tropical, Sub-tropical, Temperate, Sub-alpine, Alpine, and Nival)
Temperature	Annual mean 14°C (Max.: 35°C, Min.: -30°C)
Rainfall	Annual mean 193-2,987 mm
Major Rivers	Kali Gandaki, Marsyangdi, Seti, Madi, Modi and Mardi
Major Peaks	Annapurna I (8,091m) & II (7,937m); Gangapurna (7,455m), Annapurna South (7,219m), Nilgiri, (7061m), Hiuchuli (6441m) Machhapuchhre (6,993m), Pisang (6,091m)
Physiography	Only PA with 4 physiographic regions in Nepal (Middle Mountain, High Mountain, High Himalaya & Trans-Himalaya)
Phyto-Geography	The transition between the Holarctic and Paleotropical kingdoms

Floristic Region	Transition of eastern & western Himalaya with Central Asiatic (South Tibetan) & Indian (Gangetic) regions
Zoo-Geography	Transition of Palaearctic & Oriental zones
Ecosystem Diversity	Forest type: 22, ecosystem type: 29, Physiographic regions: 4
Plant Diversity	A total of 1856 species. Angiosperms: 1722 species (Monocot: 416, Dicot: 1,306), Gymnosperms: 16 species, Pteridophytes: 118 species, Rhododendron: 9 species, and Orchids: 223 species. The monocot-dicot relationship is almost 1:3
Animal Diversity	A total of 1,089 species of wild animals. Mammals: 128 species, Birds: 523 species, Fishes: 28 species, Amphibians: 30 species, Reptiles: 50 species, & Butterflies: 384 species
Major Wild Mammals	Snow Leopard, Tibetan Wild Ass, Tibetan Gazelle, Tibetan Argali, Brown Bear, Asiatic Wild Dog, Himalayan Black Bear, Lynx, Steppe Pole Cat, Pallas Cat, Himalayan Wolf, Common Leopard, Clouded Leopard, Musk Deer etc.
Major Birds	Pheasant (6 species), Himalayan Griffon, Eurasian Griffon, Tibetan Sandgrouse, White-rumped Vulture, Spiny Babbler
Cultural Attraction	Many historical Gumbas like Luri Gumba are believed to be from 1100 BC, Chhoser guru Gumba, Ghunchen Gumba, Dhur Gumba, Mdee Gumba etc. Similarly, holy place like Kagbeni, Shiva Temple, and Muktinath Temple (for both Hindus and Buddhists), as well as the largest repository of Shaligram, the Ammonoid fossil used in South Asia as an iconic symbol & reminder of the God Vishnu, is believed to be under the Vaishnavism
Other Attraction	One of the remarkable trekking global destinations, the World's deepest gorge of Kali Gandaki, Impressive waterfalls/glaciers, the Trans-Himalayan zone of Upper Mustang & Manang, the World's largest rhododendron forest (Ghorepani), the Lunar topography of Upper Mustang, the Highest altitude freshwater Tilicho Lake (Manang)
Average Annual Visitors (2069-2079 BS)	The average number of visitors to the ACA during the previous ten financial years (FY) is 1,11,987. After 2016, 27.98% of tourists are from the South Asian Association for Regional Cooperation (SAARC).

CHAPTER 2: BACKGROUND INFORMATION & ATTRIBUTES

2.1. BOUNDARIES

2.1.1. Legal Boundary

The ACA was initiated as a pilot project in 1986 and covered an area of 290 km². Later, on 20 July 1992, it was officially declared and published in the Nepal Gazette with an expanded area of 7,629 km². The boundary of the ACA, as per the Nepal Gazette, is as follows:

East: Starting from the Himlung Himal (Mountain) 7,120m located at the Nepal-China international border to 7,098m of the same mountain, moving towards the Namjung Himal 7,140m. The border then passes from an altitude of 6,340m to a peak of 5,450m along the Kichche glacier until reaching the bottom of Bhimthang; the path that leads to Larke Bhanjyang, the head of Dudhkhola. Then the border continues along Dudhkhola to Mude, Karche, Ghou, Tiljegaun, and Thonche. Then, the border runs along the Marshyangdi River from the confluence of Marshyangdi & Dudhkhola up to the next confluence of Marshyangdi & Khudikhola.

West: From its northern border, the border goes through the Kaligandaki River to Jomsom; Chhairo Gaun; Chhina Gaun; Sauru; Sirkung; Titi Gaun; Dhabi; Taklung; Ghara Talbagar; Kabre; Tomang; Tatopani; Helkhark; Khibang up to the confluence of a watershed and the Kaligandaki River below the Histan Mandali.

North: From the eastern border, the northern border passes through the international border of Nepal-China up to the Dolpa district and the entire area of the Mustang district.

South: Starting from the eastern border, the boundary moves along the confluence of the Marshyangdi River and reaches up to a 2,117m ridge at Ghalegaun. From there, it continues along the main trail to Chhap until Midimkhola. From here, the border follows a gradient at the trail through Tamagaun, a peak at 2,051m, then descends to 2020m, follows a stream below Kumlung up to the confluence of Rudikhola, then passes through Rabe Danda top, Pargu-Bhachowk main path, crossing the Makaikhola bridge, up to Bhawchowk. From Bhawchowk, the border follows the main path through the old village crossing Bhujungkhola-Thumako Danda- Sherachowk-Madi river bridge-uphill trail (Thakgaun-Ghalegaun) - up to 2713 m-confluence of Seti & Bhurjukhola. From there border follows the Lahachowk-Mardikhola bridge-Dhampus-Fhande keeping Lahachok outside, and then to Lumle following the road to Birehanti trail to Hile by crossing Madikhola bridge. The border continues from the confluence of Hile to the Sikha peak 2830 m via the south-west head of the Burangdikhola and the south face of the Pun Hill; the border continues along ridges of the Histan Mandali up to the Kaligandaki, keeping Dharmdigaun outside.

2.1.2 Ecological Boundary

ACA encompasses a diverse ecological boundary, spanning from subtropical lowlands to alpine and trans-Himalayan desert regions. Its altitude ranges from about 790 meters in the subtropical valleys to over 8,091 meters at the peaks, including Annapurna I. This wide altitudinal gradient creates distinct ecological zones, including subtropical forests of rhododendron, oak, and bamboo in the lower areas, temperate forests in the mid-hills, and alpine meadows and barren landscapes at higher elevations. The trans-Himalayan region, to the north, experiences a rain shadow effect, resulting in semi-arid conditions, contrasting with the lush southern slopes. This rich diversity supports numerous species of flora and fauna, making ACA a biodiversity hotspot.

These ecological zones within the ACA are vital in supporting diverse ecosystems, regulating water resources, and providing habitat for various plant and animal species. Protecting and managing these zones sustainably is essential for biodiversity conservation and the well-being of local communities dependent on these ecosystems.

2.2. GEOLOGY AND SOIL

Geologically, the Himalayas, including the peaks of the Annapurna Massif, are quite young. They started to form during a mountain-building event known as the Alpine orogeny, which saw the Indian plates collide with the Eurasian plate to the north (Łach, 2015). The defining features include rich mountain relief and several river valleys, with rocky gorges (Łach, 2015). The major rock types are schist, gneiss, marble, and quartzite in the Kaligandaki section. The geology of the Trans-Himalayan region is fragile with formations of alluvial, colluvial, and morainal depositional surfaces and steeply to very steeply sloping mountain terrain (LRMP, 1986; WWF, 2013). Ammonoid fossils from the prehistoric Tethys Sea, dating back 60 million years, are commonly found in this region. Compared to the other physiographic zones, the high mountains and mid-hills have reasonably stable geology, mostly made up of gneiss, quartzite, mica schist, phyllites, limestone, and some granite (MOEST, 2008; WWF, 2013). The Cis-Himalayan section of ACA consists of four types of geological structures (DDC, 2016).

The ACA in Nepal features diverse soil types due to its varying altitudes, topography, and climatic conditions. The major soil types in the area include:

1. **Alluvial Soils:** Found in the lower valleys and riverbeds, these soils are formed by the deposition of sediments from rivers and streams. They are fertile and support agriculture in the lower regions.
2. **Colluvial Soils:** These soils are found on the steep slopes where soil and rock materials are deposited by gravity. They are common in the mid-hill regions and can be prone to erosion due to steep gradients.
3. **Alpine Soils:** In the higher elevations, above 3,500 meters, soils tend to be poorly developed and shallow due to cold temperatures and slow decomposition rates. These are typically found in alpine meadows and grasslands.
4. **Glacial Soils:** These are found near the glacial regions of the Annapurna range. They are composed of unsorted sediments and can be rocky or gravelly in texture.
5. **Loamy Soils:** In the temperate forest zones, loamy soils rich in organic matter are common. These soils support dense forest vegetation and are well-drained.
6. **Sandy Soils:** In some areas with drier conditions, particularly on the rain-shadow side of the Annapurna range, soils can be sandy or gravelly due to low moisture retention.

2.3. TOPOGRAPHY AND DRAINAGE

2.3.1 Topography

The ACA spans 115 km and has a significant altitude gradient, ranging from 790m in Madi Valley to 8091m in Annapurna I above sea level. The area is divided into two ecological regions (KMTNC, 1994).

Trans-Himalayan Region: The Trans-Himalayan Region includes two valleys: Upper Kali Gandaki and Upper Marsyangdi. This region's topography is steppe, with broken terrain cliffs, talus, and scree, along with vast ranges of alpine pastureland. The Upper Kali Gandaki lies to the

north of the Himalayas, covering areas north of Larjung-Ghasa to the Tibetan border along the Kali-Gandaki Valley. Marpha, Jomsom, Thini, Muktinath, and Damodarkunda are located far north of the Upper Mustang. The Upper Marsyangdi Valley is surrounded by the Himalayas in all directions, such as Annapurna in the south, Mukut in the west, Damodar in the north, and Mahalangur in the east. It is situated north of Marsyangdi River and covers areas north of Chame, Pisang, Dhikurpokhari, Humde, Manang, Bhraka, Tanki Manang, to Thorang Phedi with Nar and Phu Valley.



Trans-Himalayan Region

Cis-Himalayan Region: The Cis-Himalayan Region covers a vast area, including the Modi Valley, Bhujung Region, Lower Kali Gandaki Valley, Lower Marsyangdi Valley, and the area West of Modi (ICIMOD, 1995). The Modi Valley is formed by the Modi River, which originates from the base of Annapurna VI & Lamjung Himal and cuts a deep valley, draining south across different vegetation zones. The Bhujung Region is situated along the eastern bank of the Midim River on the south slope of Lamjung Himal. The watersheds of the Midim & Khudikhola have dense forests. The Lower Kali Gandaki Valley lies mostly within ACA and is characterized by subtropical and temperate climatic zones. The Lower Marsyangdi Valley is a mixed representation of tropical to temperate regions and is fully occupied by human settlements. The West of Modi has a subtropical climatic zone with dense human settlements, while the south slope of it has a temperate climatic zone with pure stands of rhododendron forests.

2.3.2 Drainage

The hydrology of the ACAP region is characterized by the snow/glacier-fed nature of rivers. The river discharge varies throughout the year. The major basins of the ACA are Kali Gandaki Basin, Marshyangdi Basin, and East-Seti Sub-Basin (NLCDC, 2021), which include rivers like Kali Gandaki, Marsyangdi, Madi, Seti, and Modi. Kali Gandaki, Marshyangdi, and Madi Rivers are the major river systems that drain the ACA (ICIMOD, 1995), Figure 2.

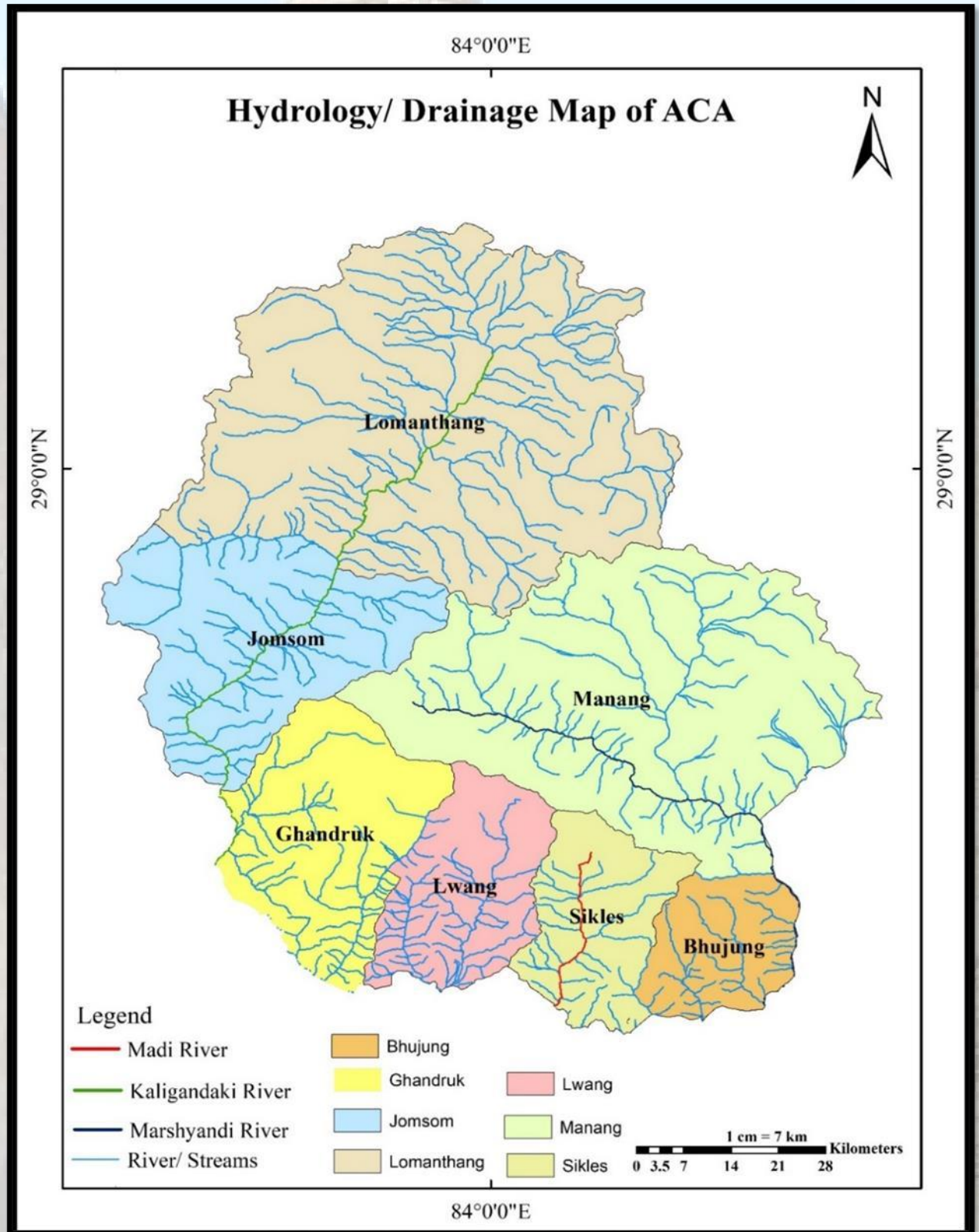


Figure 2: Hydrological map of ACA

2.4. CLIMATE

The ACA features a wide range of climate zones, from Tropical to Nival (Table 3). The maximum and minimum temperatures are 35°C and -30°C, respectively, with an annual mean temperature of 14°C. The aspect, altitude, and region of rain shadow all have a significant impact on the type of rainfall. ACA has recorded both the highest and lowest precipitation in Nepal. From the Trans-Himalayan area (Mustang) to the Cis-Himalayan region (Ghandruk), annual rainfall ranges from 193 mm to 2,987 mm (BCDP 1994; NTNC 2017; Prajapati et al., 2022). The average daily temperature decreases between December and February and reaches a maximum between May and July due to the southerly monsoon, which occurs between June and September. Prajapati et al. (2022) report that, even in regions with elevations of 4,000-6,000m, winters have been rather mild in recent years and that snowfall has subsequently decreased.

Table 3: Physiographic Aspects by Bioclimatic Zones in ACA (ICIMOD, 2007)

SN	Bioclimatic zone	Altitude (m)	Area (km ²)	Physiographic zones
1.	Nival	Above 5000	2786.5	High Himal
2.	Upper Alpine	4501-5000	1091.5	High Mountain
3.	Lower Alpine	4001-4500	1032.4	
4.	Upper Sub-Alpine	3500-4000	907.8	
5.	Lower Sub-Alpine	3001-3500	577.8	Middle Hill
6.	Upper Temperate	2501-3000	442.1	
7.	Lower Temperate	2001-2500	328.9	
8.	Upper Sub-tropical	1500-2000	279.3	
9.	Lower Sub-tropical	1000-1500	168.5	
10.	Upper tropical	501-1000	14.2	

2.5. LANDUSE/LAND COVER

The land use pattern analysis of ACA reveals that barren land dominates the region, constituting over 50% of the land area, where Lomanthang accounts for the largest proportion of barren land, comprising over 43%, followed by Manang (> 34%). Grassland represents more than 21% of the total area and forestland covers approximately 15%. The forest cover is concentrated in Sikles (>22%), Bhujung (>20%), and Ghandruk (about 20%), while Lomanthang UCO lacks any forest cover. Snow cover is limited to Manang, representing 0.46% of the total area. Agriculture only covers 3.1% of the total land area and is more substantial in Ghandruk and Bhujung UCOs (Annex 1). The northern regions are food-deficit areas and exhibit transhuman features. The analysis underscores the need for appropriate land management policies and interventions to improve the land use pattern in the ACA region.

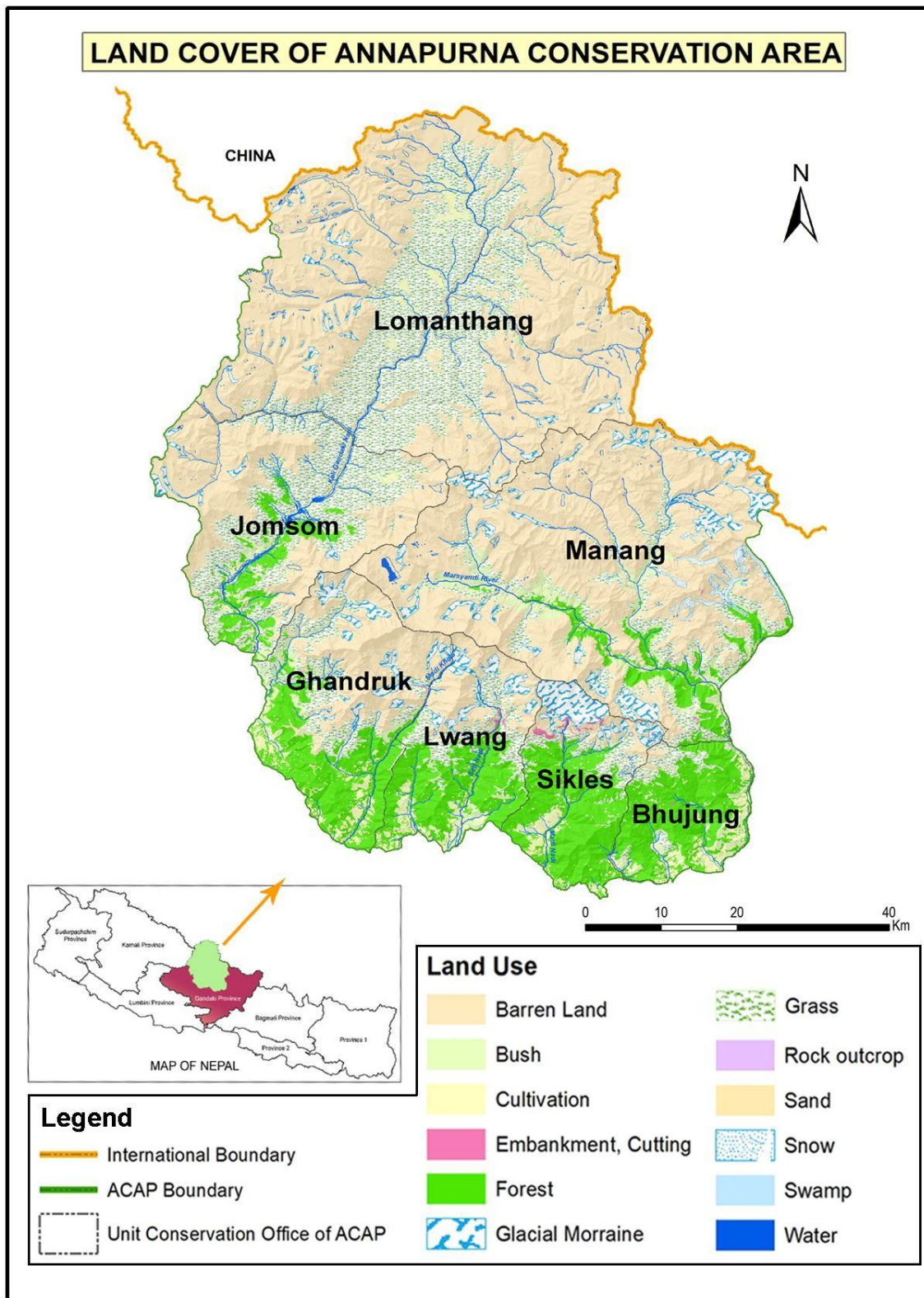


Figure 3: LULC of ACA

2.6. BIODIVERSITY STATUS

ACA is a well-known biodiversity hotspot located at the confluence of the eastern and western Himalayan regions with the Central Asiatic (South Tibetan) and the Indian (Gangetic) floristic regions. The area boasts higher endemism and localized species. ACA comprises four distinct climatic regions and is the only protected area in Nepal that has four physiographic regions and six climatic zones. Additionally, 29 ecosystem types and 22 forest types are found in this region (Annex 9).

Table 4: Biodiversity status in ACA

Description	Categories	Nepal	ACA	ACA (%)	References (Nepal)
Animals	Mammals	212	128	60.38	(Amin et al., 2018)
	Birds	895	523	58.10	
	Reptiles	143	50	35.00	(Rai et al., 2022)
	Amphibians	57	30	52.63	(Rai et al., 2022)
	Fish	255	28	10.98	(Khatri et al., 2020)
	Butterfly	692	384	55.50	(Van Der Poel et al., 2022)
Plants	Angiosperm	5820	1722	27.58	(Shrestha et al., 2022)
	• Monocot		416		
	Orchids	501	223	44.50	(Koju et al., 2023)
	• Dicot		1,306		
	Gymnosperm	26	16	61.54	(Shrestha et al., 2022)
	Pteridophytes	583	118	20.24	(Shrestha et al., 2022)
	Rhododendron	31	9	29.03	(DPR, 2012)
	Plant-based NTFPs		345		

2.6.1. Vegetation

The region spanning only 120 km shows considerable variation in altitude, resulting in diverse climatic and geomorphological conditions that support a wide range of vegetation. The forest types range from upper-tropical to temperate to alpine steppe and arid scrubs (Annex 9). Further, the ACA is the second largest Rhododendron pocket in Nepal with 9 species of Rhododendron. A total of 1856 vascular plants (Annex 17) have been reported from the ACA, including 10 protected species (Annex 10) by the Government of Nepal (GoN), 66 species that are globally threatened, 208 and 1 species that are under CITES-II and III respectively, and 102 endemic flowering plants. Of which 68 are restricted to ACA (Tiruwa et al., 2022); some are much more localized, such as *Saussurea platyphyllaria*, *Carex gandakiensis*, *Berberis mucrifolia*, *Taraxacum nepalense* (Rajbhandari et al., 2016). Some of the noteworthy species of the ACA are Lauth Sallo (*Taxus wallichiana*), Talispatra (*Abies spectabilis*), Okhar (*Juglans regia*), *Rhododendron lowndesii*, *Taxus contorta*, Dhupi (*Cryptomeria japonica*), Raj Sallo (*Cupressus torulosa*), Uttis (*Alnus nepalensis*), Khasru (*Quercus semecarpifolia*), Sal (*Shorea robusta*), etc.

2.6.2. Wildlife

2.6.2.1. Mammals

The ACA is home to 128 species of mammals (Annex 11). 14 species are protected under the National Parks and Wildlife Conservation Act (NPWCA), 1973. Additionally, 26 species are listed in the CITES appendix, with 17 in Appendix I and 9 in Appendix II. Seven species of mammals, new to Nepal, were recorded first at the ACA. They are Steppe Polecat (*Mustela eversmanii*), Kashmir Musk Deer (*Moschus cupreus*), Tibetan Gazelle (*Procapra picticaudata*), Pallas Cat (*Otocolobus manul*), Kiang (*Equus kiang*); Himalayan Wolf (*Canis lupus*) and Tibetan Argali (*Ovis ammon*). The area is also home to several globally critically endangered, endangered, and vulnerable species, such as the Chinese Pangolin (*Manis pentadactyla*), Kashmir Musk Deer, Himalayan Musk Deer (*Moschus leucogaster*), Snow Leopard (*Uncia uncia*), Clouded Leopard (*Neofelis nebulosa*), Red Panda (*Ailurus fulgens*), and Himalayan Black Bear (*Ursus thibetanus*), etc.

2.6.2.2. Birds

In the ACA, 523 species of Birds have been recorded (Annex 15). Among them, 3 species are protected under NPWCA, 1973 i.e., Satyr Tragopan (*Tragopan satyra*), Koklass Pheasant (*Pucrasia macrolopha*), and Cheer Pheasant (*Catreus wallichii*). 5 species were discovered as new to Nepal from ACA i.e., European Roller (*Coracias garrulus*), Eurasian Eagle Owl (*Bubo bubo*), Tibetan Sandgrouse (*Syrrhaptes tibetanus*), Himalayan Grasshopper Warbler, (*Locustella kashmirensis*) and White Cheeked Starling (*Spodiopsar cineraceus*), Black-Necked Crane (*Grus nigricollis*), Naumann's thrush (*Turdus naumanni*), and Spotted Flycatcher (*Muscicapa striata*)-recently reported from Upper Mustang. ACA harbors 76 CITES-listed species (6= Appendix I, 67= Appendix II, 3= Appendix III), 16 globally threatened and 56 nationally threatened bird species.

2.6.2.3. Herpetofauna

So far, 50 species of reptiles and 30 amphibian species have been reported from the ACA (Annexes 12 and 13). Among these, 4 species of herpetofauna, namely Boulenger's High Altitude Toad (*Scutigera boulengeri*), Mustang Paa Frog (*Nanorana rostandi*), and *Cyrtodactylus annapurnaensis* (ACAP Bent-toed gecko) have been discovered and reported as new to Nepal from ACA. In contrast, the Himalayan Pit Viper (*Protobothrops himalayanus*) is reported as new to ACA. ACA is home to the endangered Yellow Monitor (*Varanus flavescens*), which is protected by the GoN, and Annapurna Ground Skink (*Scincella capitanea*), which is endemic to ACA. Also, globally vulnerable species like the Mahabharat Torrent Frog (*Amolops mahabharatensis*), Burmese Python (*Python bivittatus*), and King Cobra (*Ophiophagus Hannah*) are found in ACA.

2.6.2.4. Fish Diversity

In the freshwater rivers and streams of ACA, to date, 28 species of fish, including the Planet catfish (*Pseudocheneis eddsi*) endemic to Nepal, have been reported (Annex 14). Some of the globally threatened fish species of ACA are Walking snakehead (*Channa orientalis*), Dark mahseer (*Naziritor chelynoides*), Chirruh snow trout (*Schizothorax esocinus*), Common snow trout (*Schizothorax richardsonii*), Snow trout (*Schizothorax plagiostomus*), Garra (*Garra nepalensis*), etc.

2.6.2.5. Butterfly Diversity

To date, 384 species of Butterflies have been reported from the ACA (Annex 16). Some of the important butterflies found in ACA are Kaiser-i-hind (*Teinopalpus imperialis*), Golden Birdwing (*Troides aeacus*), Common Birdwing (*Troides helena cerberus*), etc.

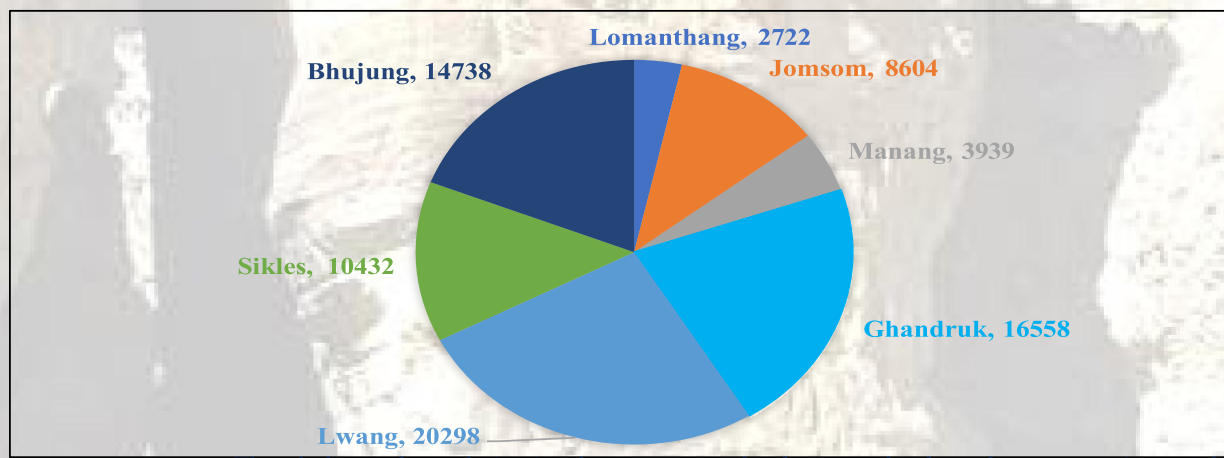
Table 5. Significance and national and international status of biodiversity in ACA

	Status	Birds	Mammals	Reptiles	Amphibian	Fish	Butterfly	Flora
Threat category	Critically Endangered	3	1			1		4
	Endangered	4	4	1				5
	Vulnerable	8	7	2	1	5		3
	Near Threatened	1	14	1	1		1	2
	Total	16	26	4	2	7	1	14
Protection Category	GoN (Protected)	3	14	1				10
	CITES I	6	17	1				
	CITES II	67	9	2	1		3	208
	CITES III	3						1

2.7. SOCIO-ECONOMICS OF ACA

2.7.1. Population

According to the National Population and Housing Census (NPHC) 2021, the total population of ACA on the RM level is 1,14,766 spread across 31,873 households (Annex 2A) with an average of 3.6, which is less than the national average of HHs, i.e., 4.37. While narrowing it down to the population under the jurisdiction of the ACA, it is 77,291 in 18,531 HH (Annex 2B; Figures 4 & 7) with an average of 4.17 persons per HH. The sex ratio is higher in Jomsom, Manang, Ghandruk, and Lwang, but lower in Lomanthang, Sikles, and Bhujung compared to the national average of 95.59 males per 100 females (Annex 1B; Figure 5). Among the UCOs, Lwang (26.25%) has the highest population, followed by Ghandruk (21.42%), while Manang (5.10%) and Lomanthang (3.52%) have the lowest population, respectively. The population density is highest in Lwang, followed by Bhujung, while it is least in Lomanthang (Figure 6).



The whole ward population is taken as a proxy for those wards where the coverage is partial

Figure 4: Population of the ACA

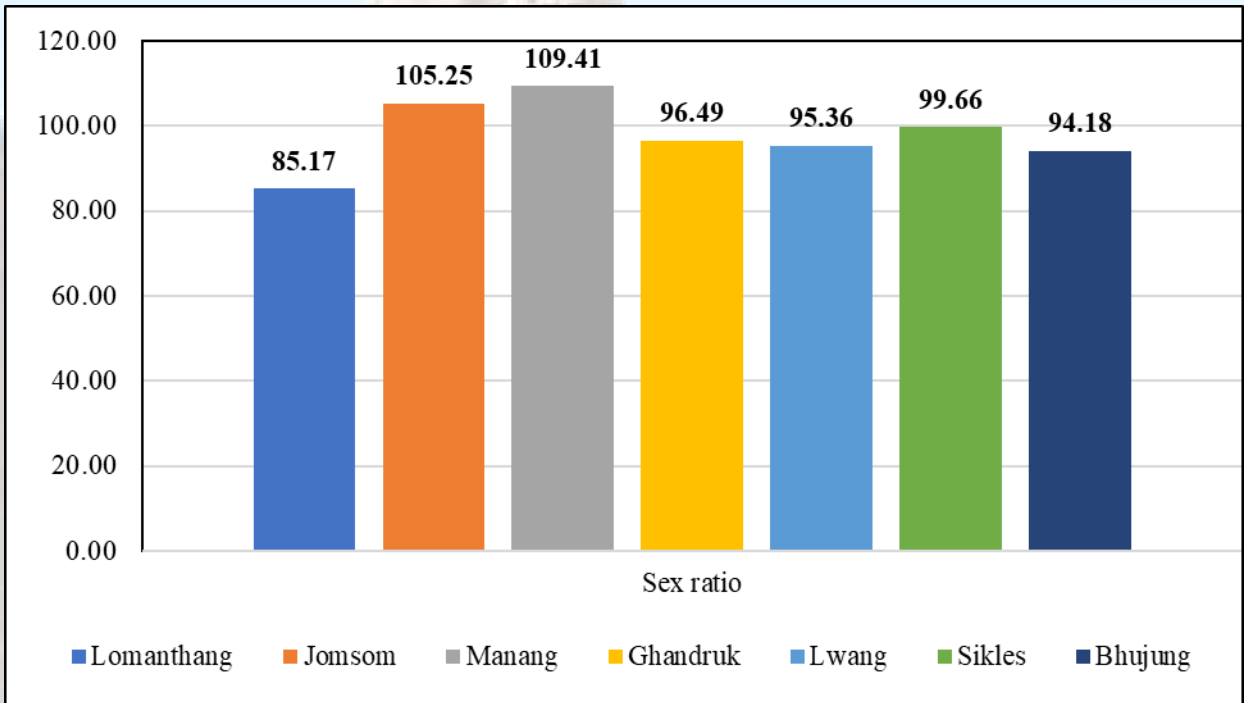


Figure 5: Sex ration in ACA

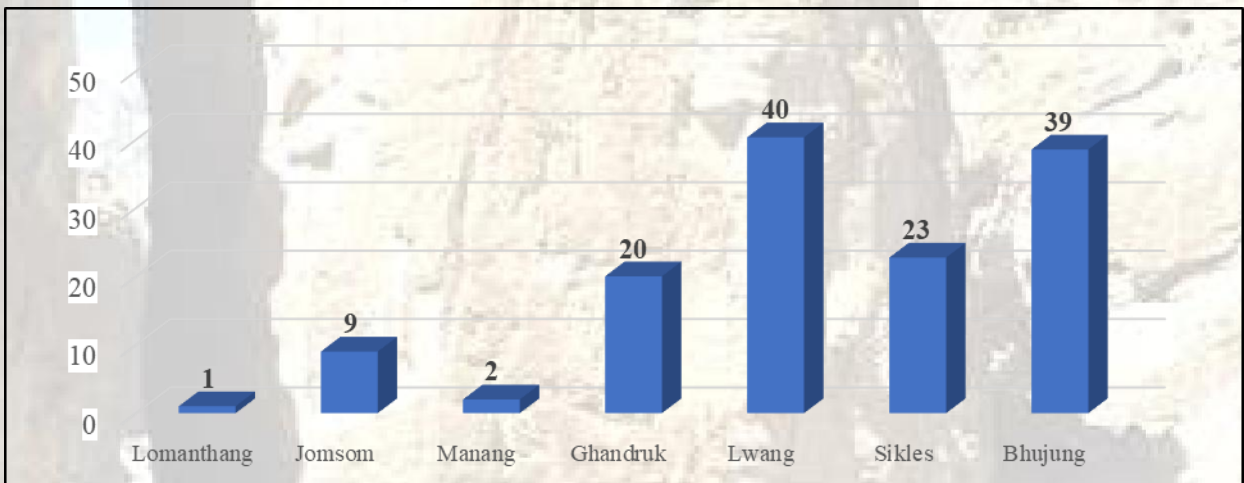


Figure 6: Population Density in ACA

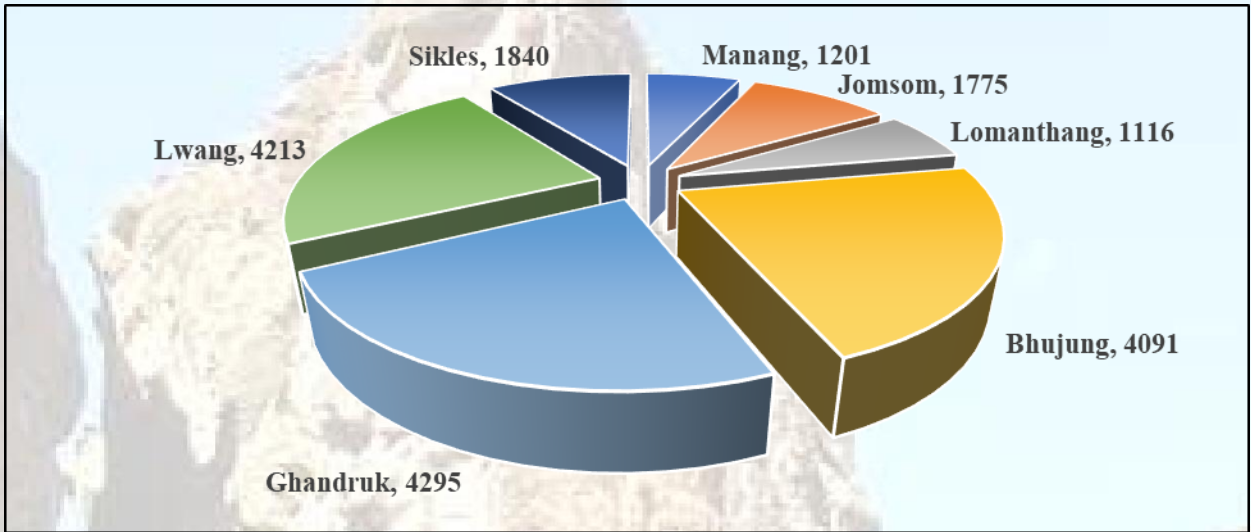


Figure 7: Households in the ACA

2.7.2. Ethnicity

There exist more than 36 ethnic groups with diverse cultural and linguistic variations. Lwang is the most diverse, and Lomanthang is the least diverse UCO regarding ethnicity. Gurung, Hill-Brahman, Bishwokarma, and Kshetri are the dominant ethnic groups in the overall ACA. The northern side comprises ethnic groups like Lhopa, Thakali, Manange, Sherpa, Dolpo, etc. In contrast, the southern side is comprised of Gurung, Magar, Ghale, Hill-Brahman, Kshetri, etc. Most Gurung villages have a clumped habitation layout, but villages with a predominance of other ethnic groups have a more dispersed structure (Annex 3&4; Figure 8&9). The Gurung, Magar, Sherpa, Thakali, Rai, and so on represent the Tibeto-Burman ethnolinguistic group, while Hill-Brahman, Kshetri, Bishwokarma, and so on represent the Indo-Aryan ethnolinguistic group. Both groups speak Nepali as a common language and have religious faith in Buddhism and Hinduism.

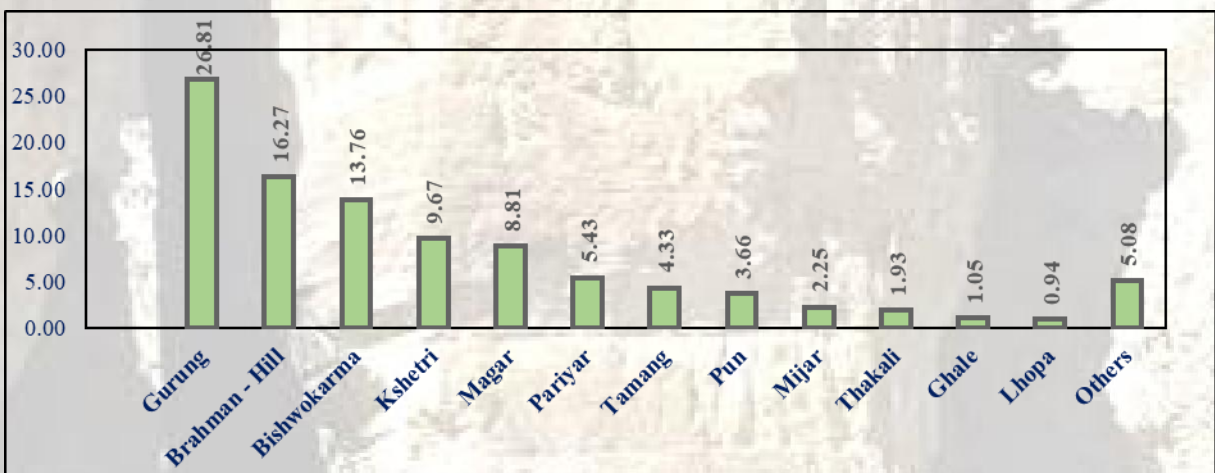


Figure 8: Major Ethnic Group in ACA

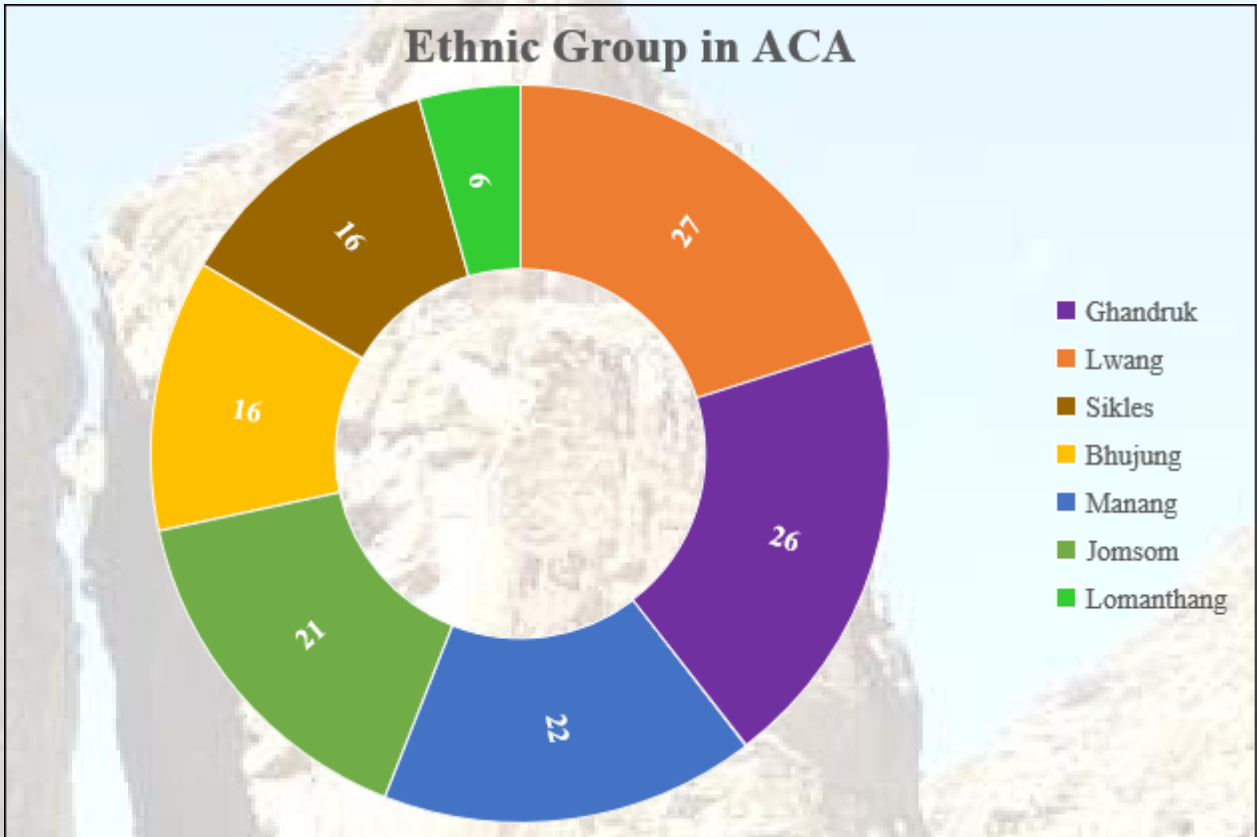


Figure 9: Number of Ethnic Groups in ACA

2.7.3 Population Growth and Density

According to the population census of 2021, Kaski District has the highest population growth rate of 1.90%, followed by Mustang with 0.69%. On the other hand, Manang, Myagdi, and Lamjung have negative population growth rates of -1.39%, -0.57%, and -0.70%, respectively (Annex 2C; Figure 10). The analysis of the population growth rates of these five districts since 1991 indicates an increasing trend in Kaski and Mustang, while Manang, Myagdi, and Lamjung

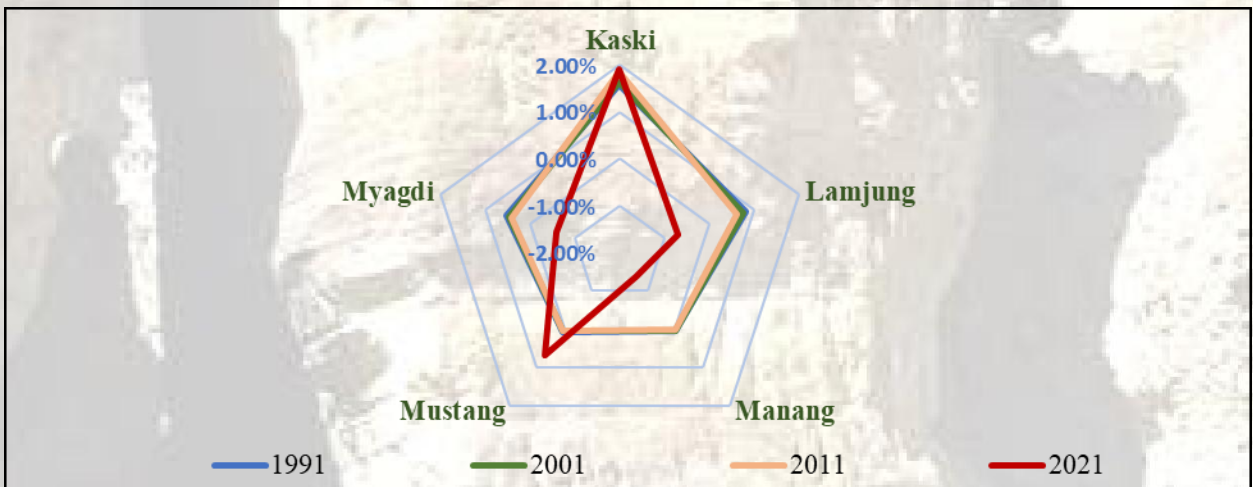


Figure 10: Population Growth rate in ACA District (1991-2021)

show a decreasing population growth rate. The Kaski District is the most densely populated, Lamjung and Myagdi populations are moderately dense, while Manang and Mustang are the least densely populated (Annex 2D; Figure 11).

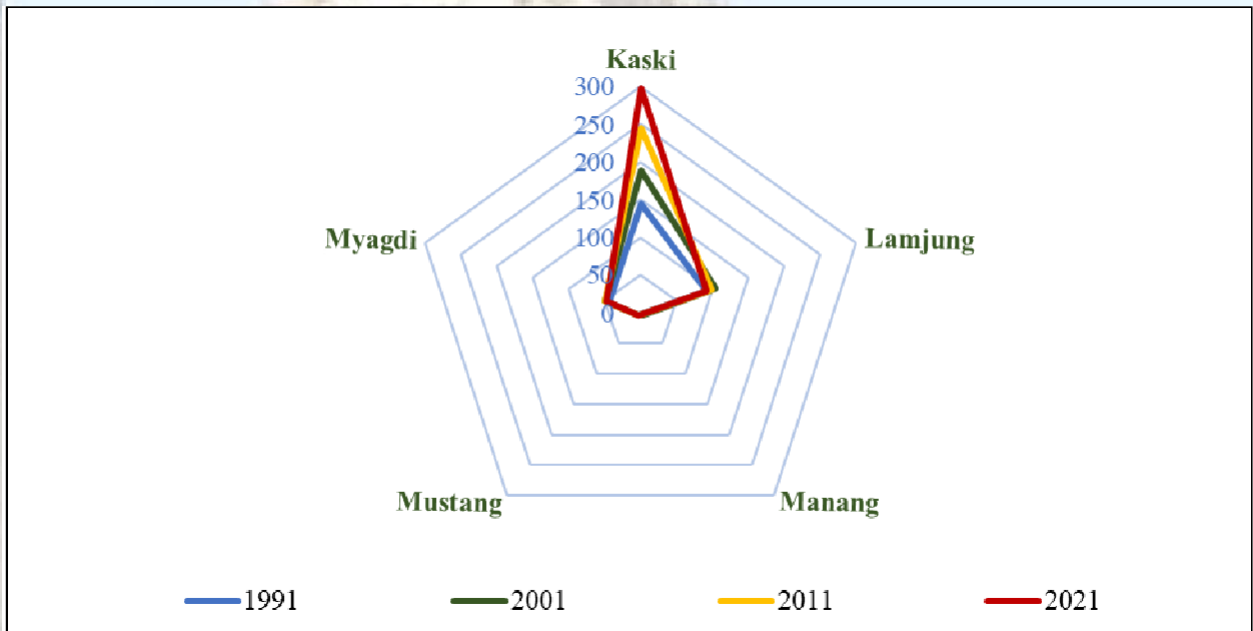


Figure 11: Population Density in ACA District (1991-2021)

2.7.4 Absentee Population and Migration

Over 11,000 absentee population exists in ACA (Annex 6: Figure 12), among which Ghandruk shares the majority, followed by Bhujung and Lwang respectively. A total of 23,592 individuals had a former residence and other places in the country before the census of 2021 (Annex 7; Figure 13). The main reasons for migration are marriage, employment, and dependence.

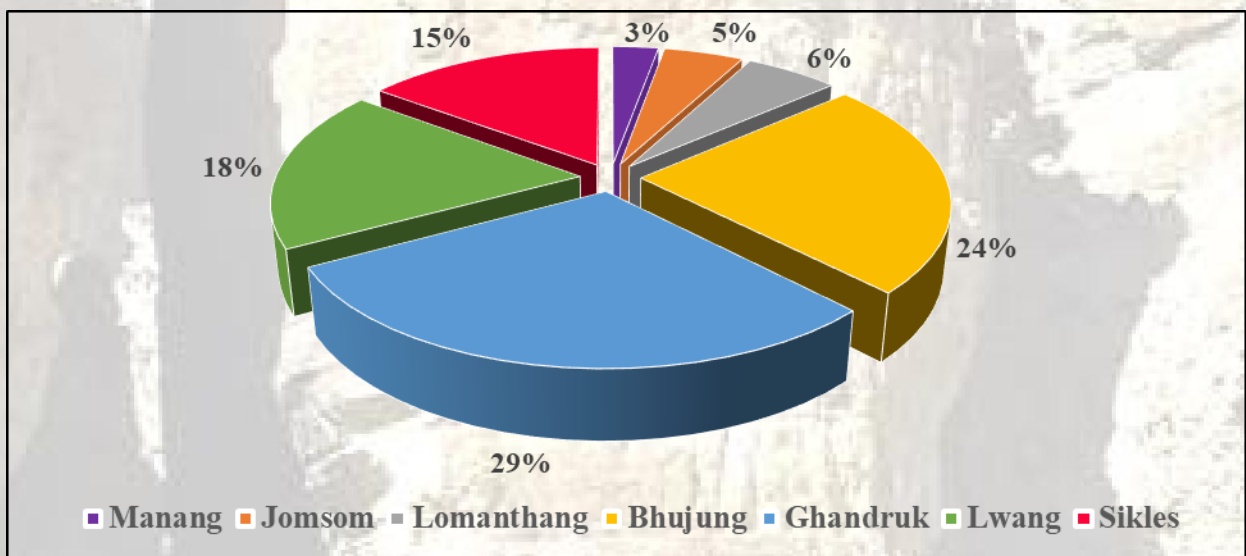


Figure 12: Absentee Population in ACA

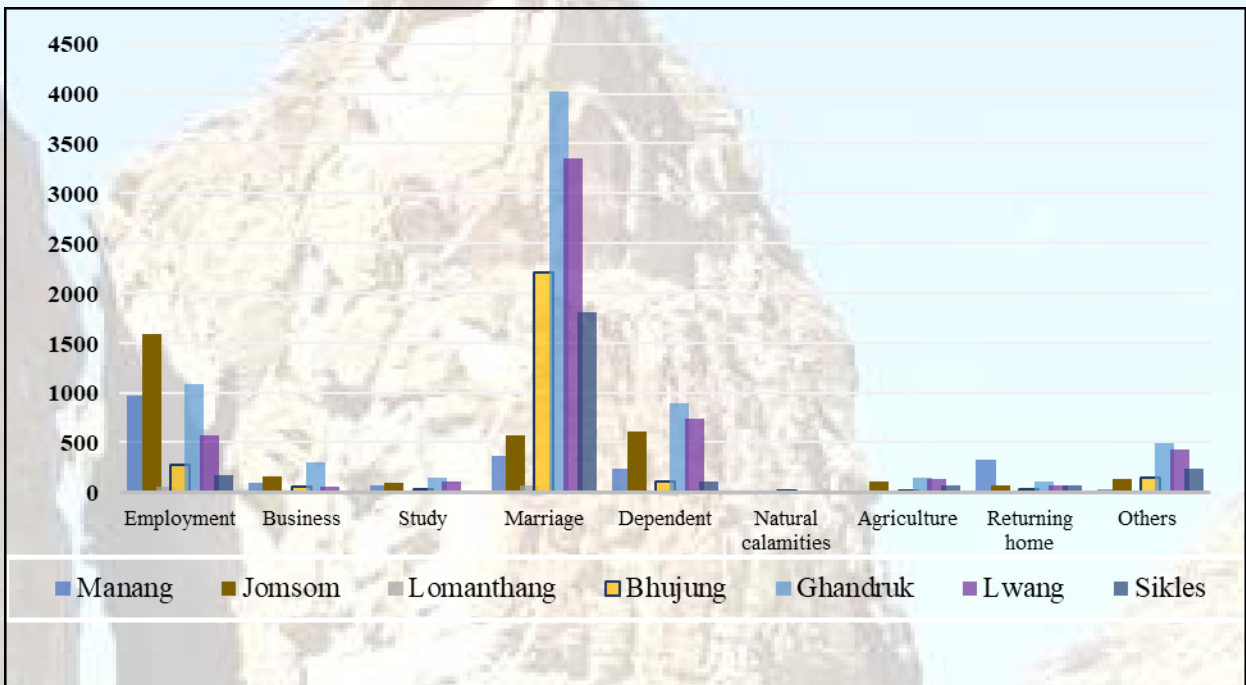


Figure 13: Migrating population with the reason for migration in ACA

2.7.5 Literacy

The literacy rate of Nepal accounts for 76.2%, with a male literacy rate of 83.6% and a 69.4% female literacy rate. In ACA, the average literacy rate is 72.05%, with a male literacy rate of 80.29%, whereas the female literacy rate is 63.73%. The overall literacy is highest in Lwang (80.3%) and lowest in Lomanthang (46.39%). The details of the literacy rate across UCOs are given in Figure 14 (Annex 5).

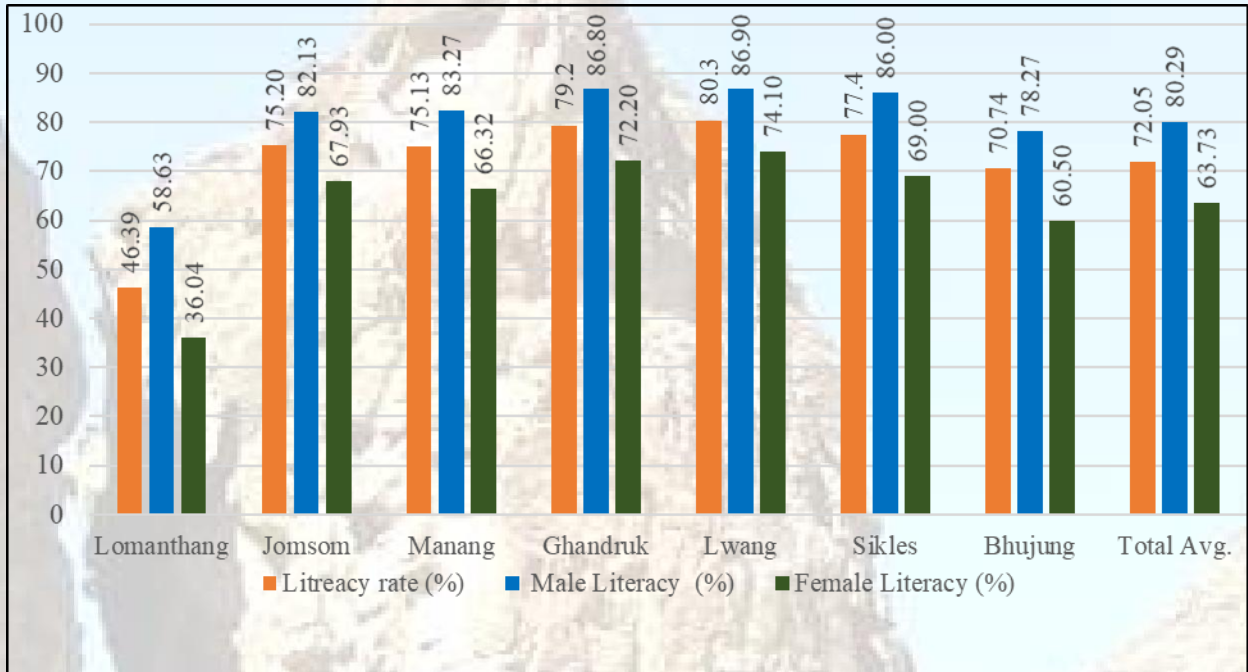


Figure 14: Literacy Rate in ACA

2.7.6 Key Cultural Heritage Infrastructure

ACA is a melting pot of Hindu, Buddhist, and pre-Buddhist (Bon-po) cultures. The Bhujung, Ghalegaun, Ghandruk, Landruk, Lwang, and Sikles are typical Gurung hamlets that are rich in tradition and culture. Different ethnolinguistic groups residing in ACA have their unique dialects, rituals, traditions, weapons, and survival strategies. Some of the unique traditions in ACA include Amchi, which is a folk medicine practice in Mustang, Ghatu, a folk Gurung dance blended with Hindu myth, Losar, the Tibetan New Year festival, Saga Lug Ka, a ritual for good faith in the climate for superior harvest, Duk Chu, a monk's dance for a prosperous year, Tenji, an annual festival in Lomanthang, and Toranla, a festival in lower Mustang. A selected list of ethnocultural heritage infrastructures in ACA is presented in Table 6.

Table 6: Key Ethno-Cultural Heritage Infrastructure in ACA

Structures	Name	Location
1. Monasteries	Thupten Shad Drup Dharkeling	Tsarang, Lo Ghekar Damodar Kunda RM-1
	Lo Ghekar Monastery	Marang, Lo Ghekar Damodar Kunda RM-1
	Luri Gumba	Ghara, Lo Ghekar Damodar Kunda RM-5
	Dhar Gumba	Marang, Lo Ghekar Damodar Kunda RM-1
	Jhampa Gumba	Lomanthang, Lomanthang RM-5
	lhupchen Gumba	Lomanthang, Lomanthang RM-5
	Chhvoede Gumba	Lo Manthang, Lomanthang RM-5
	Nvphu Gumba	Chhoser, Lomanthang RM-2
	Namgval Gumba	Chhonup, Lomanthang RM
	Sangba Gumba	Lomanthang RM
	Narsingh Gumba	Muktinath, Barha Gaun Muktichhetra-RM-1
	Numerous Monasteries	Jharkot, Gharni, Ghiling, Mustang and Kaski
	Cave Monastery	Jhong, Lomanthang RM

	Tashi Lakang Monastery	Narpabhumi RM-2, Phoo
	Bhraka Gumba	Manang Ngisyang RM-5, Bhraka,
	Tare Gumba	Manang Ngisyang RM-9, Khangshar
2. Cave Settlement		Jhong, Lomanthang RM
3. Religious Schools	Monastic Schools	Hurnde, Lo Manthang, Muktinath
4. Holy Places	Muktinath Temple	Muktinath, Barha Gaun Muktichhetra-1
5. Holy Lakes	Damodar Kunda	Lo Ghekar Damodar Kunda RM-5
	Tilicho Lake	Nyshang and Gharapjhong RM
	Dudh pokhari	Kwholasothar RM-5
6. Religious Deities	Chhorten	Largest Chhorten at Gharni, Daolme RM
	Chhorten Gates	Tsarang, Lo Ghekar Damodar Kunda RM-1
	Mane Wheel	Many Mane wheels, smaller Chhortens & gates
7. Historic Remnants	Palaces	Kagbeni, Barha Gaun Muktichhetra- RM-4
		Tsarang, Lo Ghekar Damodar Kunda RM-1
		Lomanthang, Lomanthang RM-5
	Ketcher Dzong Palace	Chhonup, Lomanthang RM-4
		Kagbeni, Barha Gaun Muktichhetra RM-4
Caves	Chhoser Cave: Lomanthang RM-5 Ne Guru Cave: Manang Ngisyang RM-3 Milerepa Cave: Manang Ngisyang RM-5	
8. Model Areas	SAARC Model Village	Ghalegaun, Kwholasothar RM-4

2.7.7 Livelihoods

2.7.7.1. Subsistence agriculture/livestock Husbandry

The diverse climatic and topographic conditions in the region allow for a variety of cereal-based agricultural practices in lower elevations and river valleys. The main crops grown include rice, maize, wheat, and millet in UCOs of Kaski and Lamjung. Maize, wheat, barley, buckwheat, and potatoes in Manang, Myagdi, and Mustang. Commercial cultivation of fruits and vegetables is popular in areas with better market access. Commercial apple farming began in Mustang almost two decades ago and has since been introduced to Manang. At high altitudes in the Annapurna region, animal husbandry is the main agricultural activity, particularly the transhumance practice. Buffalo and cattle rearing are common throughout the area, while yaks are found above an altitude of 2000 m.

2.7.7.2. Trans-human activities

It is a common mode of subsistence livelihood in the trans-Himalayan section in Manang, Myagdi, and Mustang. In winter, all members from each household except one will migrate to the lowlands with their livestock from October to April to respond to harsh climate conditions and food insecurity. In this due period, many people travel and stay mostly in Pokhara and Kathmandu. Recently, remittance has become one of the sources of HHs' income in ACA (WWF Nepal 2013). Ethnic groups like Gurung and Magar have traditionally joined the British and Indian armies (ICIMOD, 1995). Besides, there has been an increase in the number of people going abroad for work.

2.7.7.3. Micro-Enterprises

Micro-enterprises in ACA are generally agro-& forestry-based- based. Allo processing, bamboo handicrafts, handmade paper, sea buckthorn juice, Timur cultivation, cardamom cultivation, bee

farming, coffee, tea cultivation, and NTFPs. Livestock-based enterprises include milk collection, cheese making, poultry, pig farming, and fish farming. Value addition of products through processing and branding is on the rise. The red and golden apple of Marpha (Jomsom) has successfully established Marpha apple as a brand and has been a famous destination in Nepal for apples. Nowadays, with improved transportation facilities and communication services, many traders flock to the apple orchard and book raw apples in advance, even in the flowering stage. It has motivated local people to commercial apple farming in Lomanthang, Manang, and Tangbe. Similarly, tea plantations started in 1995 from Lwang and are now increasing towards the south. A tea refinery industry in Lwang-Ghalel operates, employing about 1,000 households.

2.7.7.4. Quarry & Mining

In the southern area, the communities are making an informal income from the mining of stone, slate stone boulders, and gravel. The slats are extensively used for house roofing in Bhujung, Lwang, and Ghandruk. The slate mining is in operation in Kabhre (Lwang). Sand and boulder mining is virtually not practiced, but the informal market of gravel and sand mining exists in the Marsyangdi River (Manang), Kali Gandaki River (Jomsom), and Madi & Seti Rivers (Lwang). A non-commercial collection of gems is common in Danaque of Chame (Manang). Collection of Saligram in the Dhey River in Upper Mustang. The brine water in Narsing Khola (Mustang) is traditionally tapped and sun-dried for common salt, which contains 1.5 to 3% NaCl. Salt mining is active here with 8-50 tons of annual production in the last 50 years (ACA, 2020).

2.7.7.5. Tourism Enterprises

The communities are making significant income from the tourism enterprises. ACA helped communities organize under 46 Tourism Management Sub-Committees, one Sanctuary Tourism Entrepreneurs' Committee (STEC), and one Tourism Entrepreneurs Association of Manang (TEAM). These bodies regulate interest groups of hotels/lodges, tea and grocery shops, travel & tour companies, trekking guides, and porters. Over 1,000 hotels & lodges are available in ACA (Nepal et al., 2002), including >240 hotels & many restaurants in Manang, >200 tourism entrepreneurs in Kaski in the trekking route of ABC, 30 in Ghorepani (Myagdi), and many others in Lamjung, Mustang. The tourism business has engaged over 10,000 people, directly or indirectly, in the ACA

2.7.7.6. Source of Energy

In the ACA, over 67% of households use fuelwood as the main cooking fuel (Figure 15). The highest users of fuelwood are in Sikles (87.5%), Bhujung (80%), Ghandruk (71.5%), and Manang (68.4%). The use of LPG is prevalent in Jomsom (68.5%) and Lwang (44.3%), while Lomanthang uses cow dung (12.23%) and biogas (35.06%), indicating livestock dominance in their socio-economy (Annex 8: Table 7). The use of electricity, biogas, and kerosene is minimal.

Table 7: Type of cooking fuel used in UCOs

UCOs	Wood	LPG	Electricity	Cow dung	Biogas	Kerosene	Others
Ghandruk	71.51	28.02	0.08	0.00	0.34	0.01	0.03
Sikles	87.49	12.07	0.15	0.00	0.29	0.00	0.00
Lwang	54.97	44.33	0.03	0.00	0.65	0.00	0.02
Bhujung	79.94	18.44	0.01	0.00	1.52	0.03	0.04
Manang	68.39	29.35	0.06	0.00	1.94	0.06	0.19
Jomsom	31.21	68.53	0.11	0.00	0.04	0.07	0.04

Lomanthang	40.26	12.23	0.11	12.23	35.06	0.00	0.11
Total	67.73	30.09	0.07	0.35	1.71	0.02	0.04

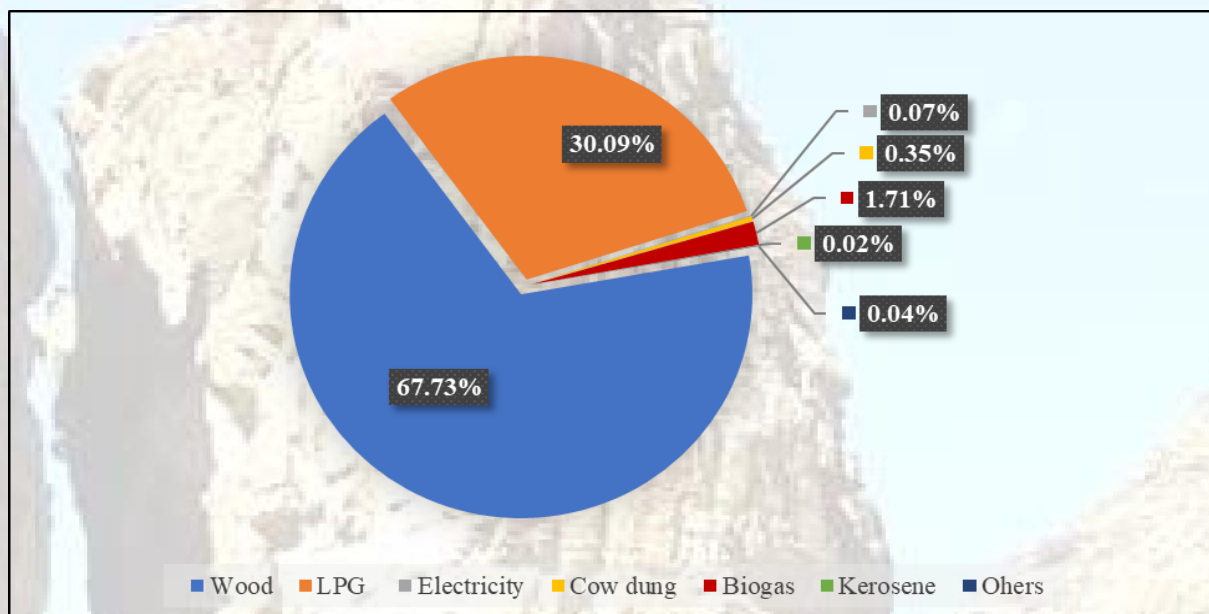


Figure 15: Source of Energy in ACA

2.7.7.7. Hydropower scenario:

ACA holds immense hydropower potential courtesy of major river systems such as Kali Gandaki, Marsyangdi, Seti, and Madi. At Present, there are 103 hydroelectricity projects in operation in ACA with a total electricity production capacity of 3111.39 MW (Table 8). Out of these, only 23 projects have been fully completed, which can generate 312.83 MW of electricity. The remaining projects are in different stages of completion.

Table 8: Hydropower current status in ACA

S.N.	Current Status	No. of Projects	Capacity (MW)
1	Feasibility	25	465.54
2	EIA	44	1,314.97
3	Under construction	11	1018
4	Completed and Power generation	23	312.83
	Total	103	3111.39

2.8 CLIMATE CHANGE IN ACA

Climate Change has emerged as a worldwide issue with multifaceted causes and impacts. The Himalayas are warming at a higher rate than the global average, threatening the existence of mountain communities and millions of people downstream. Global circulation model (GCM)

projections indicate that the temperature in Nepal will increase between 0.5°C and 2°C by the 2030s. The climate is changing in Nepal with greater intensity and impact on higher altitudes, such as in the Trans-Himalaya (Becken et al., 2013). Most of the people in the ACA depend on agriculture and tourism, both of which are sensitive to climate change. Also, climate change can disrupt the ecosystems, leading to habitat loss, increased vulnerability to invasive species, and diseases like malaria. This has serious implications for local livelihoods as well as the national economy.

Prajapati et al. (2022) report that, even in regions with elevations of 4,000-6,000m, winters have been mild in recent years and that snowfall has frequently decreased. Drought, landslides, flooding, and siltation (WWF, 2018), erratic rainfall, snow melting earlier, a decrease in permanent snow cover, and increased glacial runoff are some of the impacts seen on the ACA region (Konchar et al., 2015). Glacial lakes like Gangapurna have become a threat due to their growing sizes and weak geological setup. Some prominent examples of climate change-related events in the ACA are: a massive flood in the Seti River in May 2012, a sudden flood on the Dhakmar River in Ghami village, Upper Mustang in December 2016, the Kagbeni flood in 2023, Marsayngdi flash flood in July 2021, the Kobang Avalanches 2021, and upward shifts of species like *P. wallichiana* and *A. spectabilis* (Dhakal et al., 2016; Tiwari et al., 2017).

2.8.1 Community Response

Most people in the ACA associate and understand climate change in terms of erratic and extreme events, influenced by personal experiences (Becken et al., 2013). Communities have transitioned from traditional agropastoralism to a more diversified approach in response to changing environmental conditions (Konchar et al., 2015). The practice of climate-smart agricultural practices, such as greenhouses, water harvesting, disease-resistant crop varieties, new fruit introduction, etc., is being practiced in the ACA region. Also, the communities are involved in safeguarding natural amenities and attractions to reap ecotourism benefits. The communities inside the ACA are actively participating in climate change-related disaster preparedness, capacity building, environmental awareness training, and workshops. People have been shifting from mud roofs to tin roofs to cope with unprecedented rainfall extremes. In Dhey, village people have constructed more than 6 artificial water lakes to meet demand for agricultural and domestic use. In Samjung village, people have planted Bhote Pipal along the riverbank. In Ghandruk, Sikles, and Lwang, the scarcity of potable water has undergone adaptive management by improving the supply system and construction of a large reservoir near the spring. To adapt to the difficulties posed by climate change, the local communities have shown resilience and adaptation by changing agricultural techniques, addressing water scarcity, and diversifying livelihood choices.

2.8.2. Governance Response

Climate governance is multi-sectoral, complex, and interconnected in nature. The national acts/policies/guidelines govern the climate change response and governance. Nepal's federalization has given provinces and local governments the authority to mobilize resources to develop solutions to tackle climate change (Khatri et al., 2022). The different government institutions, through their hierarchy and line agencies, cooperate to address climate change. The updated LAPA framework envisions that climate change should be mainstreamed into the local planning process (Khatri et al., 2022). NTNC-ACAP, as a management authority to ACA, has been supporting communities and local government bodies directly from UCOs and then CAMC to implement site and user-specific climate adaptive measures. Figure 15 shows the Climate

governance in the ACA. In addition, different NGOs/INGOs adhere to NTNC-ACAP to tackle climate change and reach users at the household level.

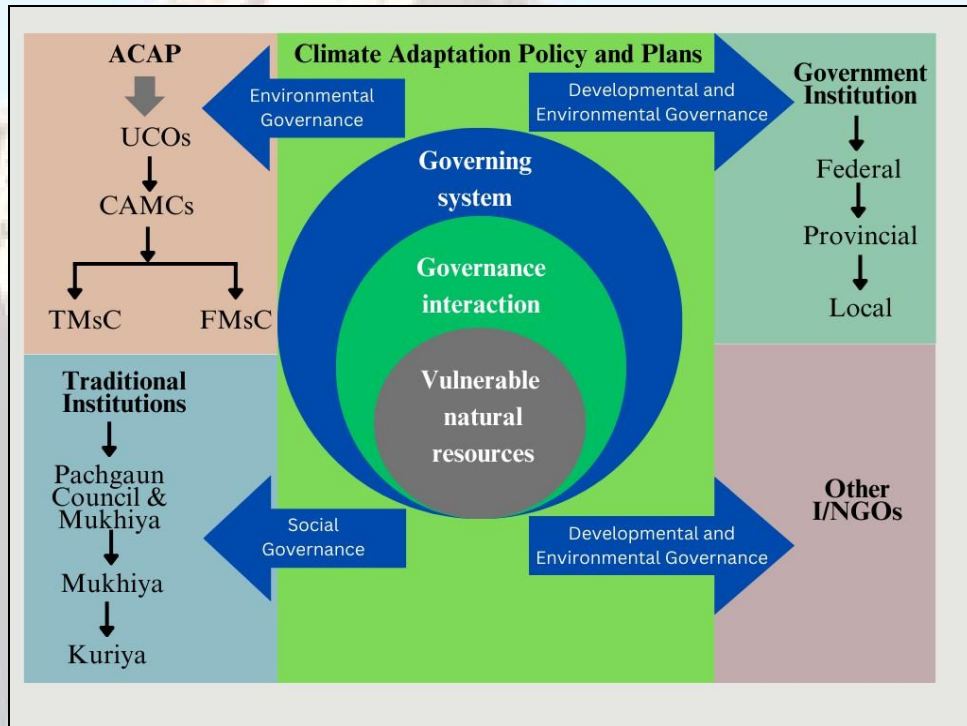


Figure 16: Socio-Political Institutional Arrangement Responding to CC Impacts in ACA



CHAPTER 3: PAST MANAGEMENT AND PRESENT MANAGEMENT PRACTICES

3.1 CONSERVATION HISTORY

In 1950 French expedition to Mt. Annapurna I made it the first peak above 8000m to be summited successfully. The Annapurna region had a sudden rise in trekking tourism, and it was perceived as a contributing factor to deforestation. Discussions of protecting the Annapurna region date back to the 1960s, and the first official proposal came in the form of the Nepal government's Tourism Master Plan of 1972 (Croes, 2006). In 1985, two American environmentalists, Michael Wright and Bruce Bunting, presented a paper titled Annapurna National Park at a conference chaired by then-Prince Gyanendra Shah and inaugurated by the Late King Birendra Bir Bikram Shah Dev. Shortly after, King Birendra visited the Annapurna area and issued a royal directive to improve and regulate tourism while preserving the area's natural heritage. the piloting of the Annapurna Conservation Area Project (ACAP) started in the former Ghandruk VDC (290 km²). Formerly the King Mahendra Trust for Nature Conservation (KMTNC), now the National Trust for Nature Conservation (NTNC), assisted in this experimentation.

Though the "Around Annapurna" or "Annapurna trail" was the second most popular trail in Nepal, the economic benefits to the locals were minimal, and environmental hazards were evident. Furthermore, hundreds and thousands of people inhabited the Annapurna region, and they could not be relocated. The concept of Conservation Areas was becoming popular worldwide as they allowed human settlements within their boundaries. This further clarified the concept of the ACA. For this purpose, ACAP pioneered the Integrated Conservation and Development Programme (ICDP) as an experimental model. It was the foremost experiment in Nepal in assimilating human values & shared human interests for a sustained environment. In 1990, following the success of piloting, the project extended to 19 former VDCs with an area of 1,748 km². In 1992, the ACA was notified in the Nepal Gazette, expanding to 57 VDCs (at present 87 wards) across 5 districts covering an area of 7629 km². ACA also faced some repercussions from the insurgencies, which caused some UCOs like Bhujung, Sikles, Lwang, and Ghandruk to move out. These offices were relocated after the comprehensive peace agreement. The GoN, to retain the success of the ACA and further strengthen the capacities of the communities and local institutions, extended the management responsibility of the ACA to NTNC until July 15th, 2028 (Figure 17).

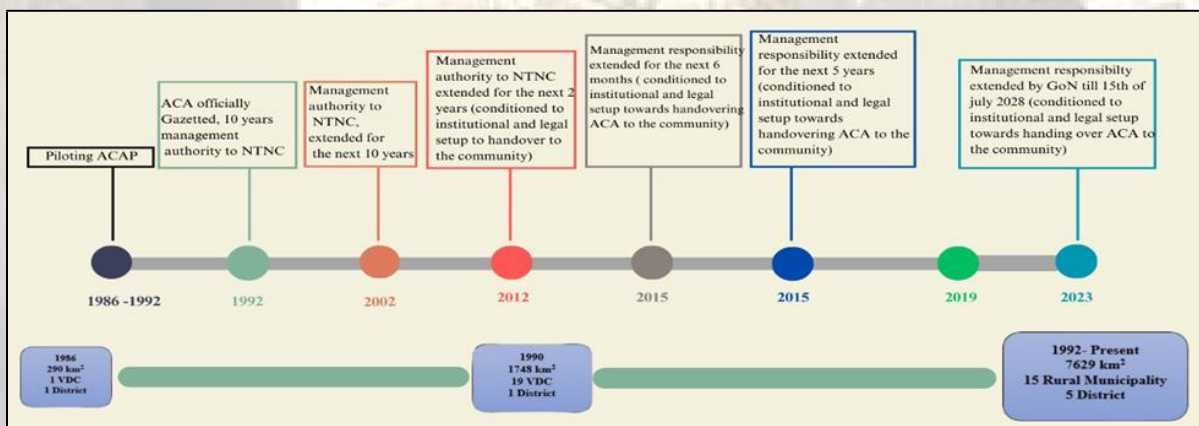


Figure 17: Genesis of ACAP

GOALS & OBJECTIVES

The goal of the ACA is "To achieve the sustained balance between nature conservation and socio-economic improvement in the ACA through community participation." The integration of the three-pronged approaches of ICDP is crucial to the implementation of ACA. The integration of inter-sectoral goals for ACA with ICDP techniques is illustrated in Figure 18. NTNC plays a vital role as a catalyst in steering community involvement in conservation interventions and exploring action avenues for the long-term sustainability of ACA. In this context, NTNC has been intermediating international and national entities, facilitating collaborations and financial opportunities, thereby supporting, improving, and upscaling community actions in ACA.

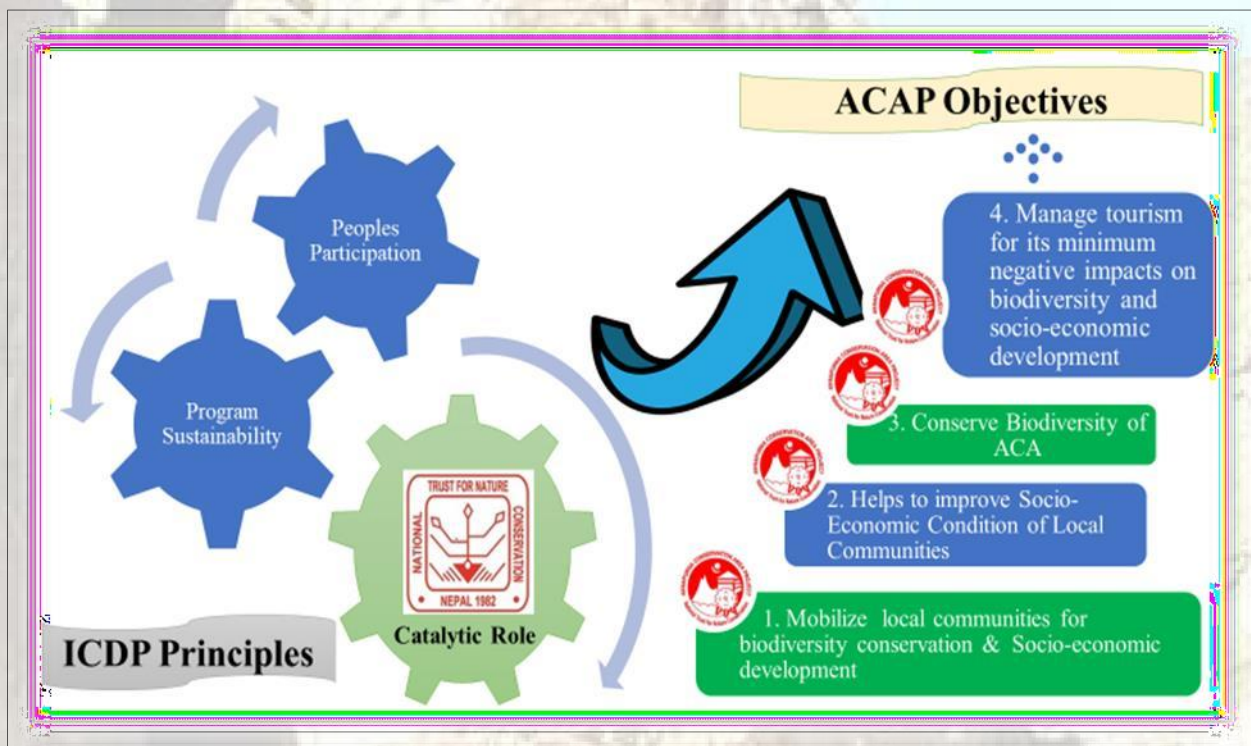


Figure 18: Strategic Principles and Objectives of Annapurna Conservation Area

3.2 PROTECTION OF PROTECTED AREA

The NTNC has been managing the ACA through the ICDP approach, which involves people as primary actors and recipients of conservation and development initiatives. The NTNC ACAP manages the ACA with the help of 57 Conservation Area Management Committees (CAMC), as dictated by rules and policies such as the Conservation Area Management Regulation (CAMR) 1996, NPWCA 1973, and others. For improved management and protection of the CA resources, the ACA is divided into seven UCOs that provide support for enforcing laws and order, technical support, financial support, and foster the capacity building of CAMCs. Similarly, the forests in the CA are protected and managed by CAMCs with the support of ACAP. The ACAP faces many challenges in managing the ACA, such as poaching, human-wildlife conflict, illegal harvesting, and haphazard use of resources. To tackle these challenges, the ACAP has been

enforcing laws and orders, conducting camera-based monitoring, field patrolling, rescuing and managing wildlife, managing nurseries, and distributing seedlings to minimize the dependency on forest resources, distributing relief, spreading conservation education/awareness, and collaborating with line agencies to bring synergy to nature conservation and local development.

3.3 HABITAT MANAGEMENT

3.3.1 Thematic areas

Table 9: Key thematic areas & their objectives, and activities in ACA

Thematic Areas	Objectives	Activities
Natural Resources Conservation (NRC)	Develop and strengthen local institutions to ensure biodiversity and soil conservation while ensuring the sustainable supply of forest and forest products	Institutional development of CAMCs; Forest nurseries; Demo plots; Management training; Forest fire control; Fencing; Forest & pasture patrolling; Fuel depot; Check posts; NTFP nursery; NTFP in private land; Riverbank protection; Wildlife management (training; survey; hotspots management; conflict mitigation; anti-poaching; patrolling); Rangeland management, and study/research etc.
Alternative Energy Promotion (AEP)	Reduce stress on critical resources, primarily forests, through wider use of electricity and other alternative energy programs	Promotion of hydropower and solar energy; Firewood saving devices (Back-boiler, Smoke water heaters, Improved cooking stoves, Pressure cooker, Biogas, Thermo flask, and Low-wattage cooker), etc.
Conservation Education and Extension	Strengthen capacity by generating awareness among the younger and older generations, and spreading the conservation awareness message in ACA and beyond	School education (Grades 6,7, and 8) with special curriculum; Adult literacy; Mobile awareness; Conservation camps; Meetings; Workshop; Campaign; Exchange visit; Events celebration; Improvement of school infrastructure; Teacher's training and capacity building, etc.
Community Infrastructure Development (CID)	Development of infrastructure identified as necessary by the communities to make local people motivated and active in conservation	Buildings (Schools, CAMC offices, Community halls, Community lodges, Day-care center, Hospitals, Check posts, etc.); Road/trails; Railings; Drinking water; Irrigation canals; Sanitation works; Introduction of energy efficient community building using passive solar architecture; Toilets, etc.
Sustainable Tourism Management (STM)	Carefully balance between ecology, local livelihood needs, and visitor's satisfaction	Institutional development (local); Capacity development of hotels/lodge operators; information centers; Tourism check posts; Eco-museums; Audiovisual; Signpost; Camp sites; Waste collection/use centers; Publication & dissemination of promotional materials, etc.
Gender Equity and Empowerment (GEE)	Bringing women, marginalized, and socially outcast people into the mainstream of conservation and development	Formation of women groups; Capacity building; Educational/exposure tour; Day-care center; Skill development; IGA opportunities, etc.
Agriculture and Livestock Development (ALD)	Equip farmers with environmentally sound techniques to increase crop yield and thereby improve their health and income	Capacity building; Irrigation support; Agricultural exhibition; Demo plots; Beekeeping; Orchard development; Tea processing depot; Vegetable farming (off-season); Nursery & greenhouse support; Animal husbandry; Seed animals; Workshop; Animal health center; Pest control, etc.
Health Service Support (HSS)	Impart knowledge and develop local-level capacity to manage health-related problems through preventive measures	Year-round general and emergency health services; Health awareness camp; Reproductive health camp; Mobile clinic; Nutrition Programs; Training, etc.
Cultural Heritage Conservation (CHC)	Conservation of cultural heritage, traditional festivals, cultural norms, and institutions	Repair, reconstruction, and restoration of Monastery; Gumba; Temples; Chhortens; Monastic schools, etc, and support to local level tradition & festivals
Climate Change (CC)	Strengthening local capacity to mainstream climate and adaptation measures at the local level	Supporting institutions for the preparation and implementation of LAPA

Research, Survey, and Documentation	Exploration and documentation of scientific knowledge on natural resources, biodiversity, and culture	Research on keystone species such as Snow leopard; Red panda; Common leopard; Cheer pheasant, Inventory of NTFPs, etc.
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3.3.2 Legal Instruments

Various policies, frameworks, and Acts are instrumental for management and law enforcement in ACA. Some of the relevant ones are:

- National Parks & Wildlife Conservation Act (1973)
- Conservation Area Management Regulation (1996)
- Conservation Area Management Directives (1999)
- Aquatic Animals Protection Act (1961)
- Forest Act (2019)
- Forest Regulation (2020)
- Environment Protection Act (2019)
- Environmental Protection Regulation (2020)
- Local Government Operation Act (2017)
- National Trust for Nature Conservation Act (1982)
- Ancient Monument Protection Act (1957) and Regulation (1999)
- Tourism Act (1978) (amended in 2002)
- Immigration Regulation (1994).
- Standard on Extraction, Sale, and Management of Stones, Pebbles, and Sand (2020).

Section (3) Sub-section (1) of NPWCA (1973) and CAMR (1996) are the main legal foundation giving NTNC the management responsibility of ACA. The NTNC is an autonomous and not-for-profit organization established by a Legislative Act of Nepal in 1982. The GoN is in the process of amending the Conservation Area Management Regulation (ACAMR). Its draft is under review.

3.3.3. Plan-Based Implementation in ACA

Table 10 summarizes the key features undertaken in ACA from 1986 to 2023. In the pioneering stage, all the interventions in the area were executed based on the project document and the *ad hoc planning* following the spirit of the ICDP. The first plan, *i.e.*, Annapurna Conservation Area Management Plan (1997-2002), prepared in 1997 after the designation of ACA, focused all implementations on '*building and strengthening capacity of communities and institutions*' through 11 cross-cutting key action areas closely interlinked to the conservation, community development, and livelihoods. The second management plan came in 2009 with a '*Human Rights-Based*' management approach in addition to the Trident approaches of ICDP. This plan consolidated 11 key action areas of the 1st into 6 categories and 31 strategies. ACA did not have plans in the period from 2003-2009, 2013 to 2017, and 2017-2022. Though there was a wise effort to prescribe a management plan for these years, but was unable to be enacted. ACAP continued its intervention based on the existing plan following ICDP and partnership for conservation approaches.

Table 10: Key features of ACAP

Period	Features
1986-1997	<ul style="list-style-type: none"> • Piloting phase • ICDP approaches applied • Gradual extension of ACAP in 16 VDCs and then 57 VDCs • <i>Ad hoc</i> Planning and Implementation started
1997-2002	<ul style="list-style-type: none"> • Annapurna Conservation Area Management Plan prepared and executed • Adherence to 3 ICDP approaches; 3 ACAP objectives; 15 strategies; and 6 goals; Priority goal to build and strengthen the capacity of ACA. • 11 key action areas (Natural resource conservation; Alternative energy; Conservation education and extension; Women's development; Tourism; Community development; Agriculture; Sustainable rural development; Health service support; Heritage conservation and Miscellaneous). • Total budget NRs. 341,334,13
2003-2009	<ul style="list-style-type: none"> • <i>Ad hoc</i> plan-based intervention. • Country period under the insurgency. • Continuity in intervention based on the framework of 1st management plan
2009-2012	<ul style="list-style-type: none"> • Management Plan for Annapurna Conservation Area prepared and executed • 4 Management principles (Integrated conservation and development; Human rights-based; Participation and Sustainability of Programs); '7Sa' management framework <ul style="list-style-type: none"> ○ <i>Sahabhagita (Participation)</i>; ○ <i>Samajik parichalan (Social Mobilization)</i>; ○ <i>Samajdari (Consensus)</i>; ○ <i>Sahakarya (Collaboration)</i>; ○ <i>Sajhedari (Partnership)</i>; ○ <i>Sansthatag Chhemata Abhibridhi (Institutional capacity enhancement)</i> and ○ <i>Sashaktikaran (Empowerment)</i>. • 6 objectives; 6 key areas (Biodiversity conservation; Livelihood diversification; Pro-poor ecotourism; Cultural heritage preservation; Institutional development & Capacity building) and 31 strategies. • Total budget NRs. 186.3 million
2012-2016	<ul style="list-style-type: none"> • No plan periods • ICDP approaches applicable • Continuity on elements envisaged by the 1st and 2nd plans. • <i>Ad hoc</i> Planning and Implementation
2016-2023	<ul style="list-style-type: none"> • ICDP approach continued • Nature-based tourism • Species conservation • PA and Ecosystem • Conservation for Prosperity • Environmental Education, Research, and Knowledge Management • Climate change • Cross-cutting issues

3.3.4. Coordination & Program Development

NTNC has been coordinating all policies and program issues with the line departments and ministries, including the focal department/ministry. This coordination mechanism in general has proved effective in communicating and disseminating the progress and constraints of ACA and influencing donors' communities for the diversifying programs/actions with funds. ACAP is independent of functions through 7-unit offices with officers, both technical and non-technical staff.

3.4 TOURISM AND INTERPRETATION

3.4.1 Ecotourism/Nature-based Tourism

The ACA is a well-known trekking destination worldwide (Baral & Dhungana, 2014), with rich cultural traditions, pilgrimage sites, and breathtaking panoramic mountain views. Blessed with an abundance of flora and a great diversity of climates, the area is also rich in biodiversity, making it a prime ecotourism destination in Nepal (Poudel & Joshi, 2020; Shrestha et al., 2023). Further, terrace settlements, Monasteries dating back centuries, Muktinath temple, Tilicho lake, Damodar Kunda, and the lunar landscape of the trans-Himalayan ranges are additional features that visitors are fond of. There are more than 22 trekking routes, and ten of these are the most entertaining circuits, such as the Annapurna Circuit, the Ghandruk Trek, the Annapurna Base Camp-cum-Annapurna Sanctuary Trek, often known as ABC; the Ghandruk-Ghorepani Circuit; the Sikles Eco-Trek; the Mardi Trek; the Khayar Barah Trek; the Tilicho Tal Trek; and the Upper Mustang Trek. The Ghorepani-Poonhill trek (22.9%) was the most popular tourist destination before the pandemic, entertaining over 35,000 trekkers annually (Figure 19), but after the pandemic, Jomsom-Muktinath (49.7%) has been the top tourist destination in ACA (Figure 20) (Source: ACA 2023). The analysis of tourist data also reports the increased number of tourists from SAARC, mostly Indian pilgrimage tourists, to visit the Muktinath temple in Mustang.

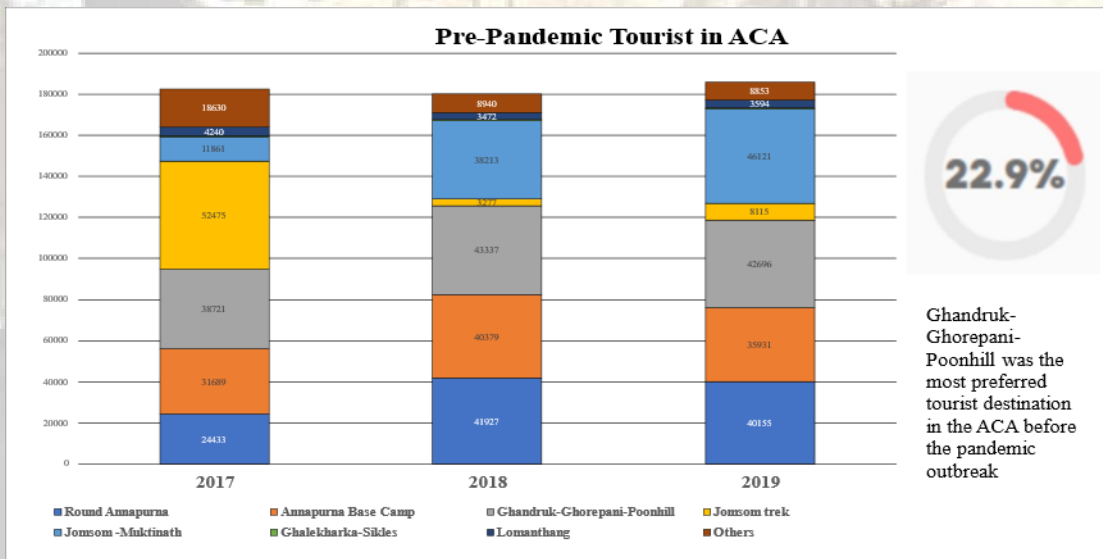


Figure 19: Destination-wise tourists in ACA (Pre-Pandemic)

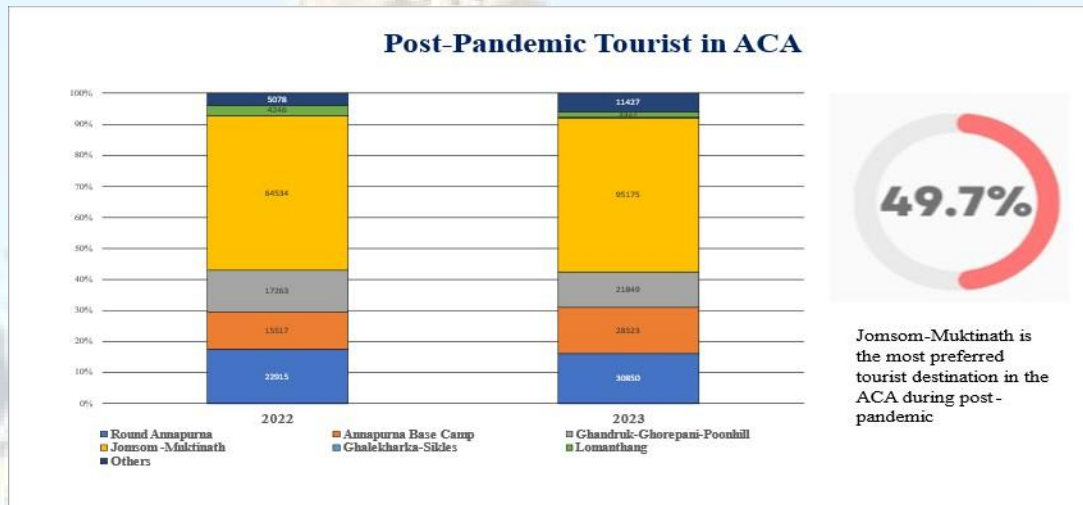


Figure 20: Destination-wise tourists in ACA (Post-Pandemic)

Trekking trails in ACA are the most popular trekking destination in all of Nepal. The following are the trekking routes prevalent in the ACA (Figure 23).

Lomanthang

- Kagbeni - Samar
- Samar - Dhakmar
- Dhakmar - Lomanthang
- Lomanthang - Samjung
- Samjung - Chhojung
- Chhojung - Ghara
- Ghara - Tangay
- Tangay - Chhusang
- Chhusang - Muktinath

Manang

- Round Annapurna (Thorung La Pass)
- Tilicho Route
- Nar Phu trek/ Kang La Pass
- Bhim Thang/ Larke Pass
- Chame- Kajin Sara
- Chame-Lamjung Himal Base Camp

Jomsom

- Muktinath - Pairothapla
- Muktinath - Thorangla-pass
- Thini -Tilicho Lake
- Kobang - Dhaulagiri Ice Fall
- Boksikhola - Bhutarcho Lake

Ghandruk

- Mardi Trek
- Pothana – Jhinu Danda
- Birethanti - ABC
- Ghandruk -Ghorepani

- Tadapani– Mulde Ghorepani
- Ghorepani - Tatopani
- Swata-Khopra
- Paudwar -Khopra
- Narchyang, Khopra--Ghorepani
- Narchyang-North Annapurna Base Camp
- Birethanti-Ghorepani

Lwang

- Mardi Himal Trekking Route
- Machhapuchhre Model Trek (Khumai-Khorchyang)
- Sikles Ghalekharka Eco-route
- Pipar Taal Trek
- Kirku Pass Route

Sikles

- Ghalekharka-Sikles eco-route
- Warchowk, -Yanjakot-Tangting -Sikles
- Sikles-Hugu Kapuche
- Sikles-Tasha-Kori -Timang (Manang)

Although ACA is the top trekking destination, 334 hotels (161 registered but not renewed and 173 unregistered hotels) are on public land, which is planned to be managed in coordination with municipalities and CAMC following Conservation Area Management Regulation and directives. Figure 21 below illustrates the number of registered but not renewed and unregistered hotels in ACA.

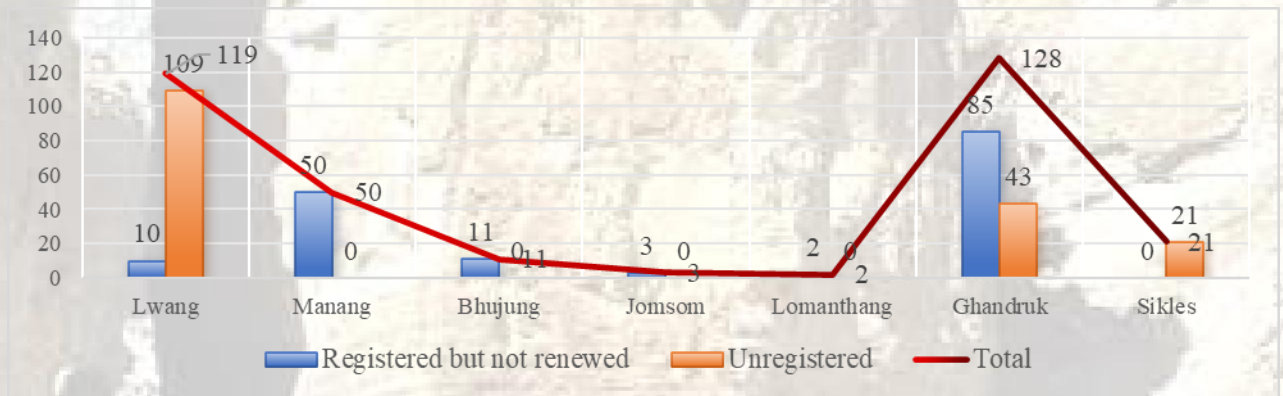


Figure 21: Status of Hotels in public land in ACA

Tourism revenues contributed substantially to the region's economy and a large percentage of the ACA's annual operating budget (Baral & Dhungana, 2014). However, income dropped by 36% in FY 2076/77 and by 97% in FY 2077/78 due to COVID-19 and travel restrictions (Shrestha et al., 2023). Before the COVID-19 pandemic, the number of tourists visiting ACA had steadily increased except for the insurgency period (2001-2006) and the devastating earthquake of 7.8 Richter scale in 2015. In 2019, ACA recorded the highest number of tourist arrivals, however as a result of travel restrictions and lockdown measures imposed due to the

pandemic, the tourism industry experienced a substantial decline. Post-pandemic tourism in ACA is on the rise breaking the mountaineers due to road constructions, seasonal limits, and an increase in pilgrimage from SARRC-associated countries. The official highest number of tourist arrivals in 2023 with 191,558 tourists (Figure 22). Although the highest number of tourists in ACA has been recorded, there has been a decline in the number of trekkers.

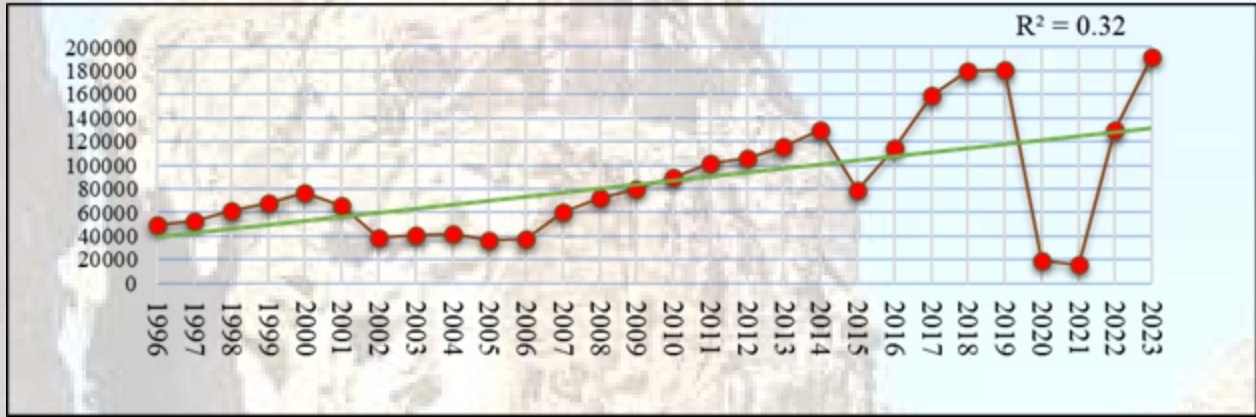


Figure 22:Trend of Tourist Number in ACA (1996-2023)

- **Accommodation:** Over 1000 lodges and teashops, 393 homestays at 26 places.
- **Informational signage:** >1500 sign boards managed and repaired.
- **Trail network:** >150 km of trail improvement work has been done in 330 minor maintenance sites and >324 drainages have been constructed and repaired. Altogether over 190 bridges including RCC, suspension, truss, and wooden constructed and repaired.
- **Health and wellness:** >38 community health post-construction and repaired.
- **Safety and security:** 6 police check posts constructed, 19 check posts in total, and 27 tourist information centers.
- **Drinking water:** Over 356 drinking water schemes constructed and repaired.
- Over 186 community toilets were constructed.
- **Attractions:** Cultural Museum in Jomsom, Manang, Ghorepani, Ghandruk, Ghalegaun, and Sikles, Gumba, Temple, Chortten.
- **Waste management:** 51 incinerators, 982 dustbins, and >150 clean-up campaigns among others.

3.5 RESEARCH AND MONITORING

Over 505 research projects have been accomplished in ACA, involving more than 50 institutions, around 110 undergraduate/postgraduate researchers, as well as other independent/freelance researchers. To promote and support research among students, ACA offers financial assistance to approximately 6 students annually. The research topics in ACA are diverse and cover various subjects, such as the impact of climate change, the role of ecotourism and its sustainability, the status and distribution of species like snow leopards, black bears, clouded leopards, human-wildlife conflicts, and ethnobotanical uses of medicinal plants, etc. ACAP has researched various topics, such as NTFPs (Yarshaghumba), its environment, and support to the local economy, plant diversity in ACA, species-specific research such as musk deer (which documented the presence of Kashmir musk deer), snow leopard surveys, preparation of a checklist of Wildlife, etc. Camera trapping has also been used from time to time and has helped rediscover species. Altogether, 13 species have been discovered as new to Nepal from ACA. There is a broad scope for national and international collaboration with universities and conservation organizations to conduct research activities. ACAP has been disseminating research documentation through the publication of books, such as Flowers of Mustang, Birds of ACA, Mammals of ACA, Butterflies of ACA, as well as through national and international journals. Additionally, informative publications like Hariya Pailaharu (biannual), Prakriti ko Sandes for kids, Annapurna: Attraction and Trekking Routes, among others, are being published.

3.6 HUMAN-WILDLIFE CONFLICT

Human-wildlife conflict is one of the major issues in ACA. Snow leopard, Himalayan wolf, and common leopard are mostly involved in livestock depredation, whereas the black bear and common leopard are the most frequent species in terms of attacks on people. Major crop-damaging wildlife include monkey, black bear, barking deer, blue sheep, and other mammals. Unresolved conflict presents a real threat to the long-term existence of species, puts human lives at risk, and poses challenges to maintaining livelihoods (Anand & Radhakrishna, 2017). Therefore, this matter must be handled quickly and skillfully. Support for the construction of natural and artificial barriers, predator-proof corrals, and changing cropping patterns has been implemented. In the last 10 fiscal years, a total of 19 human injuries, 2111 livestock depredations comprising of Ox, Cow, Hen, Yak, Gauri, Goat, Buffalo, Mountain Goat, Jhopa, Sheep, and Horse (Figure 24 & Annex 24), and several crop-raiding incidents have been recorded in the ACA. A total of Rs. 33,13,082 based on the Relief Guideline, 2069 has been distributed as a relief amount in the last three years.

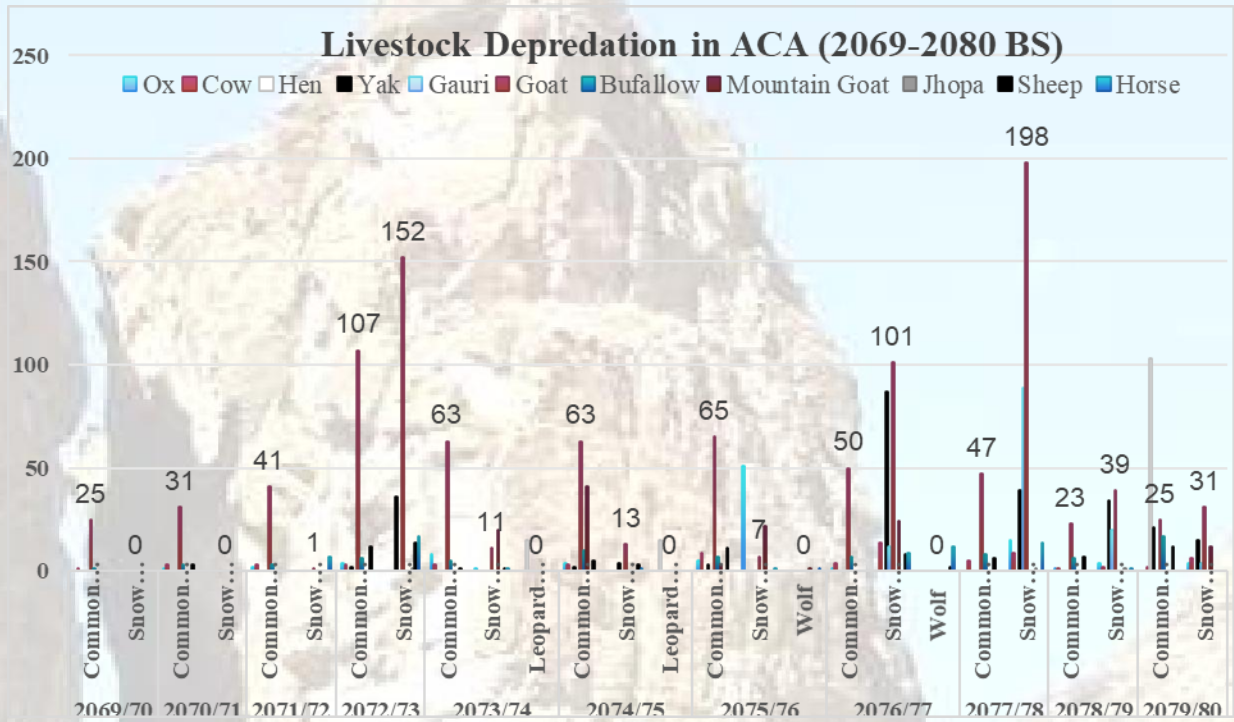


Figure 24: Livestock Depredation in ACA (2069-2080 BS)

3.7 ADMINISTRATION AND ORGANIZATION

3.7.1 Organizational Structure & Staffing

The legal authority for implementing the ACA lies with the DNPWC, which operates within the framework of the Ministry of Forests and Environment (MoFE), though provisional management takeover is given to NTNC. In the piloting phase, ACAP headquarters were established in Ghandruk in 1986 and later shifted to Pokhara as the Directorate. At present, ACAP has 112 staff and 24 offices. Figure 25 and Table 11 show the organizational structure and current staff in ACAP. CAMR (1996) has defined the roles and responsibilities of the NTNC, Chief of ACA headquarters (HQ), and UCOs. Rule 31 of CAMR (1996) has set the provision for the Liaison Officer, who is the focal authority to mediate DNPWC and NTNC, deal with the legal issues, and take appropriate actions against any offenders of CAMR. Pokhara-based ACA headquarters (HQ) implements overall programs and activities through its UCOs and checkpoints. NTNC backstops ACAP for overall implementation, through coordination, supervision, evaluation, and monitoring services.

On the other hand, under DNPWC, there is the Annapurna Conservation Area liaison office with 4 staff, including one Conservation Officer, two Rangers, and one Na Su (Administrative Assistant). The role of the liaison office is to facilitate the ACAP, carrying out all legal procedures, IEE, EIA implementation, monitoring, and implementation of the activities and others in coordination with the ACAP office and other government agencies.

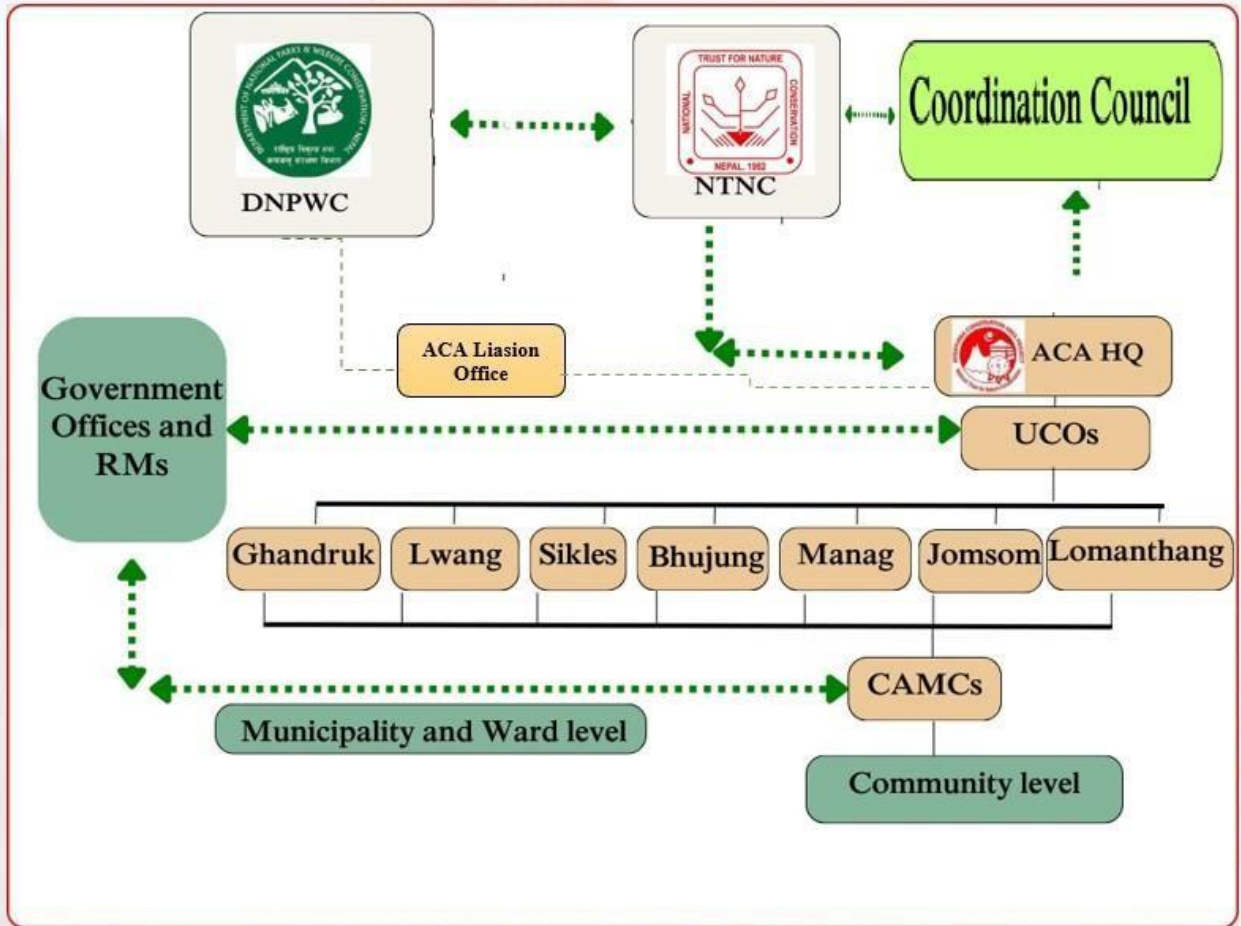


Figure 25: Organizational Structure of ACAP Management

Table 11: ACA Offices and staff details

Designation	HQ	Ghandruk	Lwang	Sikles	Bhujung	Manang	Jomsom	Lomanthang	Total
Project Chief	1								1
Officer	5		1	1	1	1	1	-	10
Assistant	21	11	5	5	5	6	9	5	67
Jr. Assistant	8	5	3	2	2	5	6	3	34
Total	35	16	9	8	8	12	16	8	112
Number of offices*	4	5	2	2	2	3	4	2	24

*Headquarters, EP counters, Museum, UCO Office, Check-Post, and Information Center

3.7.2 Unit-Level Institution

The area-specific issues of ACA are being addressed with programs & activities designed and implemented in diverse biophysical and socio-economic settings through UCOs. Figure 26 and 27 show their cover area, in which Lomanthang is the largest UCO in ACA. Pokhara-based HQ provides all technical and logistical backstopping to UCOs.

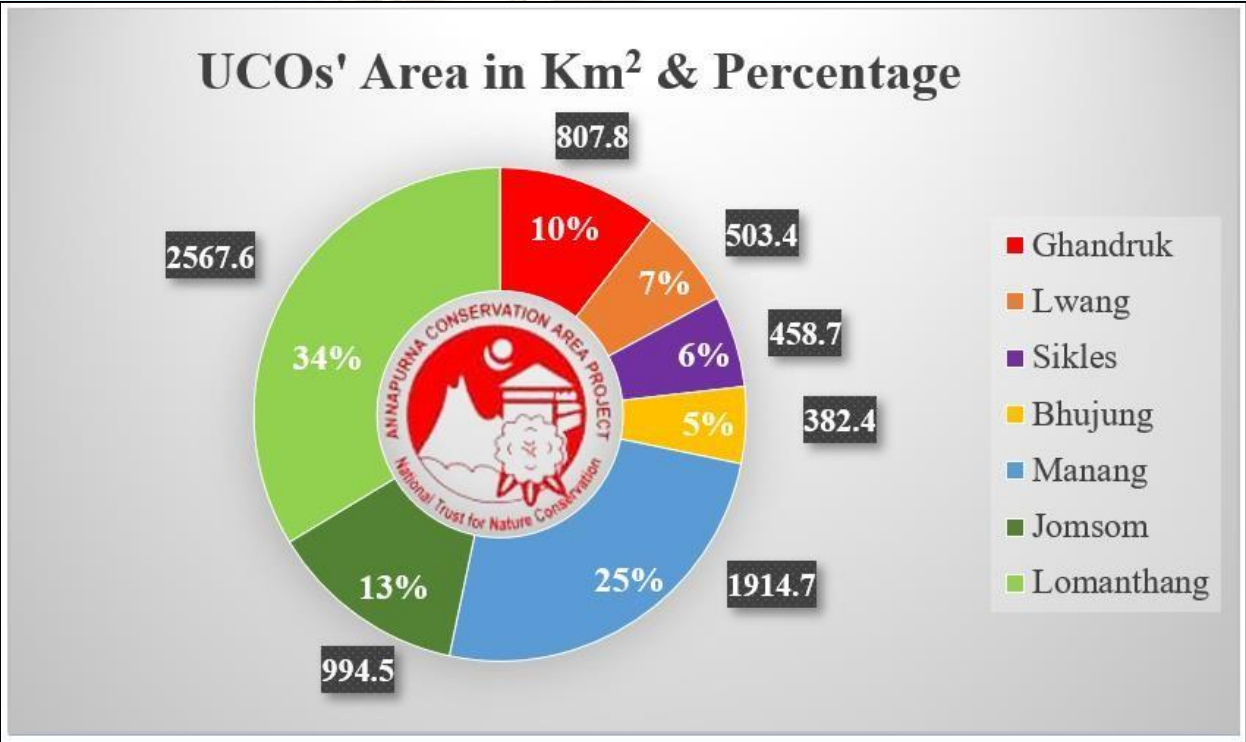


Figure 26: Area coverage by ACA-UCOs

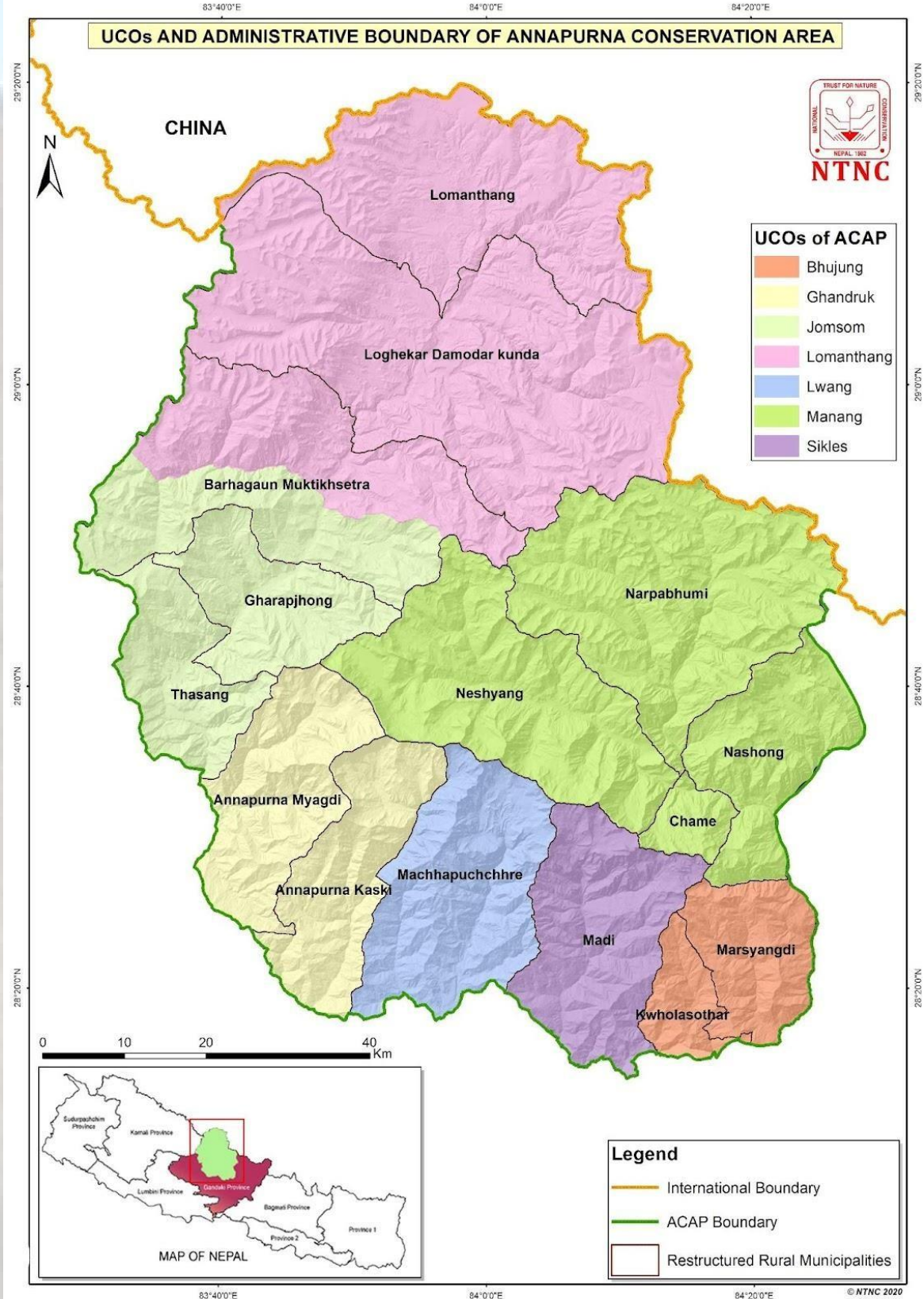


Figure 27: Administrative Boundary and UCOs of ACA

3.7.3 Community Organizations

Communities and interest groups are formed thematically into 795 groups that focus on specific interests and play a vital role in promoting community participation in various interventions (Table 13). CAMC is the major local-level body. This committee can form sub-committees as and when required. All groups and community-based organizations (CBOs) work in close coordination with the CAMC. CAMC selects its executive members for a five-year tenure. The CAMC is responsible for creating a plan that includes the activities of all sub-committees and groups. Additionally, it coordinates, mobilizes people for participation, collects and wisely uses revenue and resources, and implements conservation programs. Institutionally, the CAMC successfully implemented the ICDP model. Networks of all CAMCs will be established and used for planning, progress review, and other related activities. Community-based institutions will be modified as per the approved regulations.

Table 13: Distribution of Local Conservation Institutions in ACA

S.n.	Local Institution	Distribution of Local Conservation Institutions in Unit Conservation Offices							
		Ghandruk	Lwang	Sikles	Bhujung	Manang	Jomsom	Lomanthang	Total
1	CAMCs	6	7	7	8	13	9	7	57
2	CBAPU	-	1	-	6	-	3	9	19
3	CCMsC	-	3	1	-	-	-	-	4
4	CF/FG	12	-	-	21	16	-	27	76
5	CHsC	2	-	-	-	-	-	-	2
6	CLMSC	-	1	-	-	-	-	-	1
7	DCC	1	-	2	1	-	-	-	4
8	DCMsc	1	-	-	-	-	-	-	1
9	FMsC	19	34	7	32	13	18	-	123
10	GFC	13	12	18	15	4	11	4	77
11	KDMsC	2	-	-	-	-	-	-	2
12	MADG/MEJsC	-	1	-	-	-	-	-	1
14	MDCJsC	-	-	-	-	1	-	-	1
15	MHMsC	4	2	1	6	-	-	1	14
16	NMJsC	-	-	-	-	1	-	-	1
17	PMSCs	-	-	-	-	-	-	2	2
18	SCG	1	-	14	1	-	-	20	36
19	SDWMsC	7	-	-	-	-	-	-	7
20	SLMsC	-	-	-	-	13	-	9	22
21	SMMsC	-	-	-	-	-	-	2	2
22	TMsC	10	1	1	7	9	9	1	38
23	VSPG	-	1	-	-	-	-	-	1
24	WG	52	42	47	67	26	35	27	296
25	Tea MsC	-	-	-	2	-	-	-	2
26	Museum MsC	-	-	-	2	-	-	-	2
27	Goat Farming MsC	-	-	-	4	-	-	-	4
	Total	130	105	98	172	92	85	109	795

3.8 ACHIEVEMENTS OF PRECEDING MANAGEMENT PLAN

3.8.1 Communities Empowerment

ACAP empowered communities to integrate conservation superiority with development activities. Their capacities are built up for group activities such as CAMCs; forest subcommittee;

Hotel & Tourism subcommittee, Women Groups, Micro-hydro subcommittee, Green clubs (schools), and conservation and development works. The capacities of women and disadvantaged communities, ACAP promoted small businesses, micro-entrepreneurships, and cooperatives for economic sovereignty and other sectors of engagement, like health and sanitation. They have now turned to be the resource managers in handling forests; management of plant/agriculture nurseries; trail improvement, construction of roads and pavements; hotel/lodge management; operation of daycare centers, etc. Similarly, conservation education is imparted to 72,469 students; 81 schools are supported for the educational materials and salaries of the teachers; 75 Green Force Clubs in 81 schools are operational; over 500 marginalized students are stipend for education, etc. Some UCOs like Ghandruk, Bhujung, Sikles, and Lwang are now capable of conservation leadership in the ACA

3.8.2 Habitat & Biodiversity Conservation

The communities have been able to conserve 1160.5 km² of 22 types of forests and habitats. About 60 km² of land is forested and sub-watershed managed, which has helped increase forest area by at least 0.78% from 1986 to 1996 (ACA management plan, 2009). Also, during 1990-2010, it is seen that the forest cover increased by 7% (Pokhrel and Sherpa, 2018). The communities are benefitting from the sustainable management of NTFPs, and now progressing to upscale economic benefits from the sustainable harvest of NTFPs. Chapter 2 in section 2.7 elaborates on the biodiversity treasure that ACA has been able to maintain. The communities and groups are now in the process of exploring the best applicable mechanism to harmonize conflicts associated with the increased population of wildlife and the depredation due by them.

3.8.3 Species Conservation

The communities have been mobilized for species conservation initiatives in ACA. For example, there are 13 sub-committees dedicated to the snow leopard and one for the musk deer conservation. A network of 31 anti-poaching sub-committees is operational to control poaching, hunting, and wildlife trade. Research and monitoring of globally endangered species like the snow leopard, the musk deer, and the Himalayan black bear is ongoing. Similarly, the local herders with financial support from ACAP have constructed community predator-proof corrals in Manang (24) and Mustang (21) to reduce the livestock depredation and retaliatory killing of the snow leopard. The community has piloted a community-based livestock insurance scheme in Manang to reduce human-snow leopard conflict in a sustained way.

3.8.4 Ecotourism and Community Development Infrastructure

ACA has many development and ecotourism assets improved over time. The communities have >30 CAMC buildings, 68 conference halls, 16 health posts, 123 school buildings, 7 porter shelters, 5 sports grounds, 9 check posts, 26 RCC, 97 suspension and >21 wooden bridges, >4,987 Private forests, 126 School and 137 community toilets, 207 drinking water schemes, 29 irrigation canals, 29 water mills, etc. (MoFSC 2012). Besides, the ACA contributed to the government initiative of open defecation-free areas with the construction of 4,987 private toilets. The community has been managing 13 micro-hydro generating 533 KW electricity, directly benefiting over >2200 HHs. Upper Mustang, Chhoser, and Chhonup of Lo-Manthang Gaunpalika are entitled to the Solar Light Villages with solar devices installed in 834 HHs. The installation of 2,073 units of biogas plants, worth saving 3,100 tons of fuel wood/year, has enabled communities to reduce greenhouse gas by 9,300 tons/year. Besides, over 1500 HHs have direct access to Improved Cooking Stoves helped reduce fuelwood consumption by 30%. In

addition, 947 units of back boilers and 261 units of solar water heaters are in operation at hotels/lodges, which also have been contributing to reduced amounts of fuelwood for water heating. Distribution of >1000 Iron Prayer Flags locally called Dharjyo has saved about 1,000 trees per year.

There are many structural and non-structural ecotourism infrastructures. Some are community managed 19 Information Centers, 11 Check Posts, Tourism Entrepreneur Association (Manang), Annapurna Base Camp access route (Kaski), Sanctuary Tourism Entrepreneurs Committee (Ghandruk), 11 alternative trek routes, >1,170 sign & 47 location boards, 7 Rubbish collection centers, 222 incinerators, 17 dumping sites, 213 rubbish pits, 23 safe drinking water stations, 2 helipad, 3 eco-parks, 2 village parks. The growing popularity of safe drinking water stations helped reduce the use of >500,000 mineral water bottles and controlled the haphazard throwing of used plastic bottles. Further, the conservation and renovation of 77 cultural heritages, including Temples, Gompa, and Chorten, have great contribution to ecotourism in the Northern part.

3.8.5 Conservation Farmer Concept Evolved

The conservation farmer concept has evolved in ACA. This initiative has brought many farmers to follow conservation prescriptions. For example, farmers have established many nurseries, like 107 private, 7 projects, 10 tea, and 2 coffee nurseries, that have employed 250 farmers for vegetables, cash, fruits, other crops, and livestock development. Local farmers have a tea plantation of 80 Ha in the marginal land and run two small-scale tea micro-enterprises. ACA supported >70 farmers for cardamom cultivation, 60 farmers for goat farming in Bhujung, and 28 for beekeeping that annually generate NRs >10 million, 4.3 million, and >1.5 million respectively.

Box: A BROADER PICTURE OF ACAP

ACAP is a well-known conservation model in Asia that allows residents to maintain their customary rights and access to natural resources. It has delivered prolific results in the conservation realm, bringing about a major paradigm shift in resource management. This shift includes a move from preservation to conservation, from protective and participatory to collaborative, from demand-based to result-based, and from traditional to intermediate technologies. All these changes have made the ACA the largest community-managed protected area in Nepal. This success has influenced policy frameworks, which have replicated the ACAP model for the establishment of other protected areas like the Manasalu and Gaurisankar CA. ACAP is a globally recognized conservation model, having won many awards, mainly for tourism and development. These include the Deutscher Rieseuro-Verband (1989), J. Paul Getty Wildlife Conservation Award (1989), Tourism for Tomorrow Award (1991), UN Global 500 Award (1994), Abraham Conservation Award (2001), Environment Conservation Award from MoST, Nepal (2008), and UNDP Equator Prize (2014).

3.9 STRENGTHS, WEAKNESSES, OPPORTUNITIES & THREATS (SWOT) ANALYSIS

3.9.1 Strengths

- ACA is the largest PA in Nepal
- The area is accessible with ease from different parts of the country
- Premier destination for ecotourism and trekking
- Well-managed tourism infrastructures (Signs, Maps, Information boards, trails, etc.) in place
- Substantial tourism revenue generation that is channeled back for development and conservation
- High ethnic diversity and cultural significance
- Diverse ecosystem, greater biodiversity, and valuable wildlife
- High species enumeration, as well as highly localized and endemic species
- Part of Chitwan-Annapurna Landscape (CHAL) & included in Important Bird and Biodiverse Areas (IBAs) of Nepal as identified by Birdlife International
- Site of ecological significance for preserving high-altitude biodiversity
- Institutionalized community participation for biodiversity conservation is in place
- Well institutional setup with trained staff for effective management of the area
- Encouraging partnerships with local communities and stakeholders, including national and global conservation organizations
- NTNC backstopping ACA
- Conservation-friendly community

3.9.2 Weaknesses

- Very little focus on wildlife and species in the conservation management operational plan
- An Anti-Poaching Strategic Plan was not implemented
- The impact study didn't assess resource management, ecosystem conservation, species conservation, species habitat, or so on
- Inadequate research related to climate change impacts, problematic animals, species conservation, and conservation economics.
- Lack of aggressive external fundraising practiced in ACA.
- Lack of fire management plans, pastureland management is poor
- Heavy dependence on local people in ACA resources
- Tourism activities are not distributed uniformly and have issues regarding equitable tourism benefits

3.9.3 Opportunities

- ACA is a conservation brand with a globally known ecotourism market, serving as immediate motivation for communities for conservation efforts
- Substantial opportunity for green income through sustainable management of NTFPs, development of micro-enterprises, value addition, and branding
- Home to rare and threatened Snow leopard, Kashmir Musk deer, Clouded leopard, etc., draws attention of GoN along with the global community for its conservation
- Opportunity to implement Payment for Ecosystem Services (PES)
- Opportunities for integrating socio-political & socio-ecological planning by partnering with local government

- Great opportunity for hydroelectricity and wetland conservation
- The road network upgrade by the GoN to link north-south creates a range of opportunities for economic growth, cultural exchange, and regional cooperation
- Opportunities for research through partnership with academic and conservation organizations
- Explore opportunities for the basin approach of PA conservation and management

3.9.4 Threats

- Diminishing cultural assets, modification, lacking maintenance, as well as the youth's skewness towards modernity (western culture)
- Climate change impacts have already been observed, such as glacial retreat, changes in precipitation patterns, shifts in ecosystem typology, and so on
- Human-wildlife conflict & poaching
- Habitat fragmentation and possible biodiversity loss due to the construction of large-scale infrastructures
- High number of migrating youths and diminishing volunteer participation
- Increasing road nexus resulting in declining income from the trekking business
- Spread of invasive and alien species
- Fostering synergy between conservation and development is challenging
- Management and use of river-based forest products in ACA
- Resource governance- overlapping rights of local, provincial, and national agencies



Rhododendron Forest fragmentation in Ghorepani

A tall, narrow rock spire, likely a natural rock formation, stands against a clear blue sky. The rock is light-colored and shows signs of weathering. A decorative banner with a brown outline is overlaid on the image, containing the text 'PART-B: PROPOSED MANAGEMENT PLAN'.

PART-B: PROPOSED MANAGEMENT PLAN

CHAPTER 4: VISION, GOAL, AND OBJECTIVES

4.1. VISION STATEMENT

"Conservation for the Prosperous Annapurna Conservation Area, Nepal"

4.2. MANAGEMENT GOAL

The management goal of this Plan is:

"Annapurna Conservation Area is managed in a way that ensures conservation of rich biological & cultural diversities, and making a prosperous local economy through ecotourism and green enterprises"

4.3. MANAGEMENT OBJECTIVES

1. Strengthen ACA governance to address emerging challenges;
2. Conserve natural resources, biodiversity, and cultural heritage, maintain, and enhance their wise use to promote ecotourism;
3. Develop and strengthen the capacity of local institutions for natural resource and biodiversity conservation, culture conservation, and enterprise development;
4. Support community initiatives for infrastructure development and ecotourism development; and
5. Strengthen the capacity of ACA institutions to update information on ACA resources through research, documentation, and dissemination.

4.4. MAJOR CHALLENGES IN ACHIEVING OBJECTIVES

1. Flaw in the Policy environment for the wise use of riverbed materials, slate stone, and other renewable resources, including NTFPs;
2. Inadequate human resources, utilities, and facilities for law enforcement for the control of illegal wildlife trade, including NTFPs;
3. Low level of capacity in mainstreaming the ACA plan under the planning/program framework of the local government (for implementing LAPA, enforcing Environmental Standards, and other policy issues in wildlife & forest management).
4. Weak capacities of the communities and local institutions to scale up conservation activities and leverage additional investment;
5. Development and implementation of conservation codes and effective monitoring to regulate the construction of buildings, development of marketplaces, road networks, and hydropower;
6. Value addition on ecotourism products and services, opening of new alternative trekking trails with quality facilities and services; and
7. Growing trend of outmigration of youth and conservation champions and diminishing cultural assets.
8. Poor governance in the ACA manifests through institutional weakness, corruption, political interference, and exclusionary practices, severely limiting the area's capacity to achieve integrated conservation and sustainable development goals.

CHAPTER 5: MANAGEMENT STRATEGIES

5.1 BOUNDARIES

The legal and administrative boundaries of ACA are described in Chapter 2 under the title 2.1.

5.2 ZONATION

ACAP has envisaged a zone concept for the management interventions, which are still applicable to continue (Figure 28). They are:

5.2.1 Natural Resource Management Zones

Implementation of ACA Wilderness Zone:	Above 4600 masl, Full of glaciers, rocky high mountains, and abandoned pasturelands. Full protection and no development activities allowed.
Protected Forest Zone:	Below wilderness zone but above intensive use zone, inaccessible for regular up-downs, Alpine pastureland, pine and mixed broad leaf temperate forests, Seasonal harvest of forest resources and seasonal grazing permitted (traditional use right), Restrictive use, and high-value NTFPs.
Intensive use Zone	Human settlement area for agriculture, livestock, fodder, and fuelwood collection, the Higher concentration of conservation & development activities (Forestry, Irrigation, Drinking water, Alternative energy, Income Generation Activities (IGAs), Conservation education, Road & Trail improvement, Hotels, Museum, Health post, Orchard, etc. Conservation norms enforced for overharvest, illegal poaching, sanitation, climate-smart villages, open defecation-free areas, free child labor, plastic-free, organic farming, etc.
Special Management Zone	Sensitive and isolated but important areas like Ghorepani, Chhomrong, Thorong Phedi, Tilicho Tal, Annapurna Sanctuary, North ABC and Chame for eco-tourism and so on which suffering from environmental issues (directly or indirectly), Areas require constant monitoring and activities to reverse and nullify negative impacts. The biotic/Anthropogenic zone as envisaged earlier no longer prevails these days.
Settlement-Based Zones	
Category I (Architectural Integrity Zone):	Area with a traditional stay that reflects traditional agro-pastoral use, and where people consent to apply conservation codes and tourism guidelines to strictly maintain original villages' features such as in Nar-Phoo (Manang) and Lomanthang (Mustang).
Category II (Moderately Traditional Zone)	Traditional settlements have undergone moderate modification but villagers agree to adopt conservation codes and guidelines to preserve architecture and landscapes to retain local features of villages, but without adherence to an authentic, traditional lifestyle
Category III (Modified Zone):	Modified settlements, where conservation codes seem unfeasible. Development of major facilities and amenities for ecotourism following building codes are allowable.

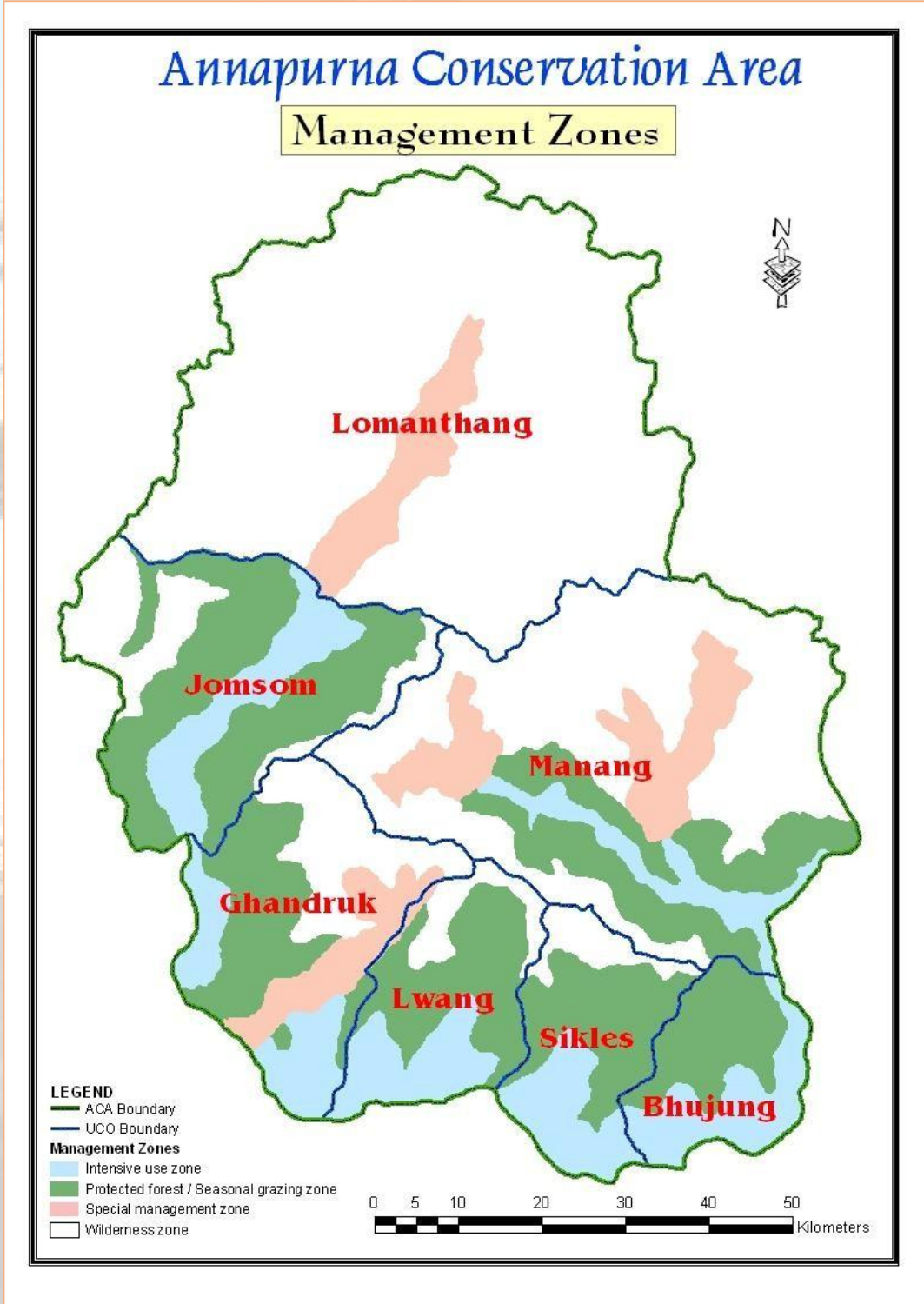


Figure 28:ACA Natural Resource Zones/ Management Zones

5.3 THEMES

5.3.1 Key Themes

This Plan has 5 key themes and 3 crosscutting themes (Figure 29). Those are:

1. Species Conservation;
2. Protected Area and Ecosystem Management;
3. Conservation Economy;
4. Climate Action; and
5. Research, Education, and Knowledge Management.

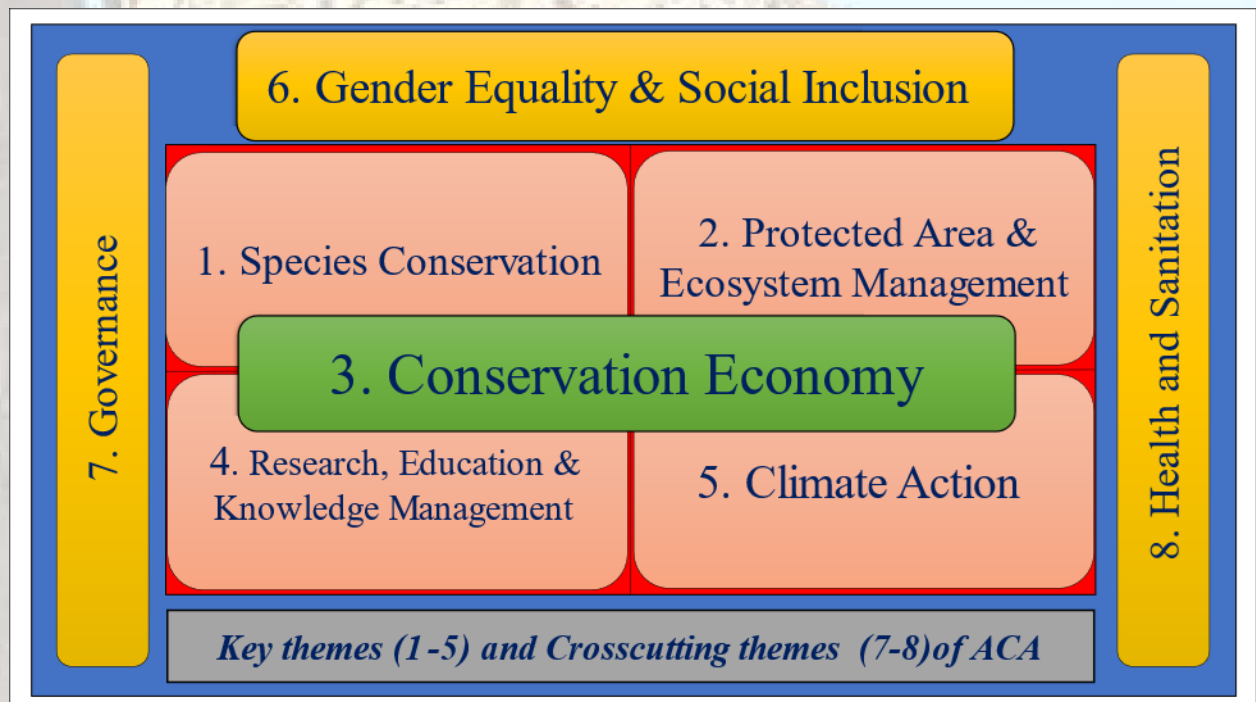


Figure 29: Key and Crosscutting Theme of ACA

5.3.2 Crosscutting Themes

1. Gender equality and Social Inclusion;
2. Governance
3. Health and Sanitation.

5.4 THEME PLAN, KEY STRATEGIES & ACTIONS

5.4.1. Theme 1: Species Conservation

To preserve the ecologically, culturally, and economically significant species and their habitat, ACAP will use the species-based strategy. Additionally, the plan will make use of cutting-edge instruments and technologies that prioritize human well-being and coexistence with animals in addition to the welfare of species. In the next five years, the ACA will implement programs that contribute to ensuring the population's long-term viability, confront challenges to protect species, and enhance human-wildlife coexistence through appropriate technology and innovative initiatives. Table 12 underlines the outcomes, strategies, and key actions below.

Table 12. Species Conservation in ACA

Outcome	1	Conserve species through maintained viable population, addressed challenges to species protection, and enhanced community tolerance to human-wildlife conflicts
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Strategy	1.1	Maintain a viable population of wildlife
Key Actions	1.1.1	2 species-specific conservation plans developed
	1.1.2	5 species are regularly monitored and ecological research conducted
	1.1.3	100 ha of pastureland managed and maintained
	1.1.4	5 water holes constructed

Strategy	1.2	Address the challenges to protect species
Key Actions	1.2.1	Capacity building of at least 300 community youths out of which at least one-third women and excluded group.
	1.2.2	Rescue and rehabilitation of more than 100 wild animals
	1.2.3	To combat wildlife crime, at least one wildlife Rescue and Rehabilitation Center established
	1.2.4	At least 40 staff from law enforcement agencies capacitated on wildlife parts identification.
	1.2.5	At least 30 predator-proof corrals constructed.

Strategy	1.3	Enhance Human-wildlife Co-existence
Key Actions	1.3.1	At least 2 innovative initiatives with appropriate technological interventions initiated.
	1.3.2	35% reduction in livestock depredation and crop damage due to wildlife
	1.3.3	More than 500 HH engaged in income generation
	1.3.5	At least 30% of wildlife victims' families supported for livelihood
	1.3.6	(One Health Approach) Conduct 3/year regular health assessments and screenings in livestock and wildlife populations.

5.4.2. Theme 2: Protected Area and Ecosystem Management

ACA in Nepal is a prime example of natural resource management and conservation, community development, with ecotourism management efforts in the Himalayan region. The strategies and key actions under this theme are dedicated to habitat management and ecosystem conservation in ACA. The wetlands conservation strategy and actions will contribute to the national target of the Ramsar implementation.

Table 13: Protected Area and Ecosystem Management in ACA

Outcome	2	Biodiversity is conserved, ecosystem services and processes enhanced, and natural resources are managed following conservation principles
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Strategy	2.1	Strengthen baseline information system for the conservation of key biodiversity areas, critical habitats, and ecosystems
Key Actions	2.1.1	Conduct a detailed survey of the flora and fauna in areas not surveyed earlier and update biodiversity baseline data following the zonation concept in each UCO domain/region/sector
	2.1.2	Map key biodiversity areas, habitats, and ecosystems as envisaged in NRM-based zonation
	2.1.3	Develop & implement a critical habitat management plan of key wildlife habitat specific to the NRM zone
	2.1.4	Maintain a biodiversity register of IPLCs TKIPs in the conservation of biodiversity and ecosystem preservation.

Strategy	2.2	Promote wetlands of ACA for global recognition and enhance productivity through integrated wetlands basin management
Key Actions	2.2.1	Conduct scientific inventory of wetlands and prepare wetlands map of ACA
	2.2.2	Explore wetlands that have the potential for the Ramsar nomination site listing, and assist the government to contribute to meet the national target by one wetland from the ACA in the Ramsar site
	2.2.3	Build capacity of CAMC for Integrated Wetlands Basin Management, preparation & implementation of an integrated plan to promote 1 wetland for conservation & ecotourism

Strategy	2.3	Conservation of key faunal and floral species
Key Actions	2.3.1	Develop and implement a Species Conservation Plan of two key wildlife species, considering the state of endemic plants concentrated at the range of 3600 to 3700 masl
	2.3.2	Publish and distribute 'Do' and 'Do Not' about flora and fauna at strategic places

Strategy	2.4	Strengthen the capacities of local institutions to reduce human-wildlife conflict
Key Actions	2.4.1	Continue support to the communities for reducing human-wildlife conflict through meetings and dialogue
	2.4.2	Continue support for the communities' scheme to construct/maintain predator-proof corrals, and animal barriers like mounds, trenches, and hedges around farmlands
	2.4.3	Piloting for one Wildlife Health & Conservation Clinic (WHCC), wildlife orphanages, and rescue services
	2.4.4	Review existing community patrolling to control illicit hunting/poaching of wildlife and support them to consolidate the patrolling scheme with many of Nepal's learning from other protected areas in the Tarai
	2.4.5	Provide the cost under cost-sharing arrangements to control the illegal collection, poaching, and trafficking of forest products and wildlife (support for patrolling & forest guard)
	2.4.6	Mobilize youth in wildlife conservation
	2.4.7	Extend the coverage of the livestock insurance scheme that was piloted earlier in the ACA to provide relief against wildlife depredation
	2.4.8	Develop the long-term 'Community Operation of Relief Scheme for Wildlife Depredation' through a community cooperative mechanism, and adopt the relief practices

Strategy	2.5	Restore ecosystems and habitats from the expansion of Invasive Alien Plants species
Key Actions	2.5.1	Assess the magnitude and threats due to alien plant species, and prepare a distribution and key areas map for the management of alien plant species in ACA
	2.5.2	Innovate a mechanism to control the impact of AIS in collaboration with the local government and local stakeholders
	2.5.3	Aware communities to safeguard agroecosystems and forest ecosystems from the impacts of alien plant species

Strategy	2.6	Promote scientific management of forests
Key Actions	2.6.1	Review existing practices of forestry for scientific management
	2.6.2	Assist sub-committee to prepare & implement Operation Plan
	2.6.3	Design, promote, and implement at least one participatory forestry program in 2 UCOs in public, waste, and community-owned barren land
	2.6.4	Continue providing materials support to the sub-committee for the forest management
	2.6.5	Support sub-committee to observe major wildlife and global environmental events

Strategy	2.7	Protect forests and wild habitats from forest fire
Key Actions	2.7.1	Aware communities to encourage the conventional management of forest fire
	2.7.2	Provide material support to the committee/sub-committee for extinguishing forest fire

Strategy	2.8	Management & sustainable use of natural resources for the economic prosperity of the community
Key Actions		Refer to activities of this action under the theme Conservation Economics 3.1, 3.2

Strategy	2.9	Explore opportunities to enhance conservation benefits from game and trophy hunting of selected species of wildlife
Key Actions		Refer to activities of this strategy under the theme Research & Information 7.2

Strategy	2.10	Capacity development of local institutions for the scientific management of ecosystems and habitats in ACA
Key Actions		Refer to activities of this strategy under Capacity Building (10.2, 10.12)

5.4.3. Theme 3 Conservation Economy

This theme is devoted to upscaling all the past activities of income opportunities from enhanced productivity through organized NRM-based planned entrepreneurship and wise use of environmental resources. This theme also consolidates past actions and commits to improving infrastructures, facilities, cultural & heritage, and tourism services. By 2030, this Plan will ensure space for seven NR-based small industries providing more economic opportunities to people, including socially marginalized groups.

Table 14: Conservation Economy in ACA

Outcome	3	Opportunities for higher conservation benefits explored and local economy of people enhanced in ACA from ecotourism and green enterprises
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Strategy	3.1	Enhance the local economy from the sustainable harvest and wise use of natural resources with PES mechanism provisioning
Key Actions	3.1.1	Develop a consensus for the engagement of the private sector in the wise use of NR, biodiversity, hydropower, and mining by integrating PES in all conservation businesses
	3.1.2	Conduct an assessment study to explore thresholds of the major harvestable NRs.
	3.1.3	Assist CAMCs with the preparation of the Sustainable Harvesting Plan of NTFP, obtain approval of the plan, and implement the plan

Strategy	3.2	Technical & financial support for green economic businesses of cash crop farming of fruits, spices, beverages & NTFPs products/marketing
Key Actions	3.2.1	Devise a mechanism for the sustainable production and marketing of cash crops (apple, cardamom, tea, and coffee) from the joint investment of the private sector and integration of PES
	3.2.2	Prepare a Commercial Plan for one cash crop in each UCO, obtain approval, and implement a plan
	3.2.3	Facilitate the process of leasing government land to extend coverage of commercial cash crops
	3.2.4	Provide support to farmers (technical & financial) for the value addition, production & marketing of cash crop products

	3.2.5	Provide support to communities for preparing & implementing the NTFP Sustainable Harvest Plan with at least 1 medium-scale community NTFP enterprise
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Strategy	3.3	Continue support for small conservation farmers for farmland management, vegetable & cereal production, and enforcing each user to plant 10 fodder seedlings
Key Actions	3.3.1	Provide materials support to small farmers for the protection of farmland
	3.3.2	Provide support to the small farmers for technology inputs in vegetable farming and materials and equipment for farmland productivity
	3.3.3	Plantation of at least 10 fodder saplings by each beneficiary HH of conservation farmers

Strategy	3.4	Continue support for small conservation farmers for livestock management and practices, enforcing each beneficiary shall plant 20 fodder seedlings
Key Actions	3.4.1	Strengthen the capacities of farmers to prepare and implement the Rangeland Management Plan in <i>Manang</i>
	3.4.2	Continue support to farmers for gene improvement and for livestock health & vaccination schemes to enhance livestock productivity
	3.4.3	Support small and resource-poor farmers for improvement of livestock sheds
	3.4.4	Plantation of 20 fodder saplings to each beneficiary HH to plant and nurture these to maturity

Strategy	3.5	Assist landless & socially deprived communities to explore their economic activities
Key Actions	3.5.1	Explore ways and means to consolidate the interests of landless and deprived communities and mainstream their actions in conservation actions
	3.5.2	Strengthen the capacities of landless & deprived communities to constitute their groups (2) in each UCO and to prepare their plans based on Micro-Enterprise-Creation (MEC) activities
	3.5.3	Provide support to groups to implement the MEC plan (14 plans) with an effective monitoring scheme

Strategy	3.6	Assist the Tourism Management Committee with the production and marketing of value-added bakery products in ACA
Key Actions	3.6.1	Assist tourism committee with the assessment of existing bakery enterprises for upgrading the quality of bakery items and extension of market for these products
	3.6.2	Assist the committee in preparing a business plan for the bakery production/marketing based on the assessment study and implementation of the plan

Strategy	3.7	Support local communities to overcome the stresses due to climate change in agriculture, livestock, and health
Key Actions	3.7.1	Refer to activities of this action under the theme Climate Change 6.1-6.3

Strategy	3.8	Building the capacity of different interest groups for diverse options contributing to the socio-ecological prosperity in ACA with the PES mechanism in place
Key Actions	3.8.1	Refer to Capacity Building 10.7.1-10.7.9

Outcome	4	Infrastructure for community development and promotion of ecotourism are supported for enhanced ecotourism
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Strategy	4.1	Plan-based intervention for ecotourism with linkage to PES
Key Actions	4.1.1	Explore and identify sector-wise and periodical priority areas of ecotourism based on the strength and opportunities of UCOs
	4.1.2	Support tourism committee in UCO to prepare Integrated Ecotourism Plan and implement plan-based intervention based on strengths and opportunities of each UCO
	4.1.3	Encourage tourism operators to use local products and services in their service menu

Strategy	4.2	Explore Opportunities to enhance the flow of native & non-native visitors in ACA
Key Actions	4.2.1	Development of functional linkage among government, private sector, and corporate stakeholders like Nepal Tourism Board, TAAN, HAN, NATTA, etc.
	4.2.2	Prepare a joint market plan in coherence with the Integrated Tourism Plan for the new tourism product/services with stakeholders
	4.2.3	Conduct promotional activities including diverse ecotourism packages for foreign tourists
	4.2.4	Research to open new alternative trekking routes like the Pairothapla-Muktinath Route, Sikles-Timang Route, Tangting-Bhujung-Besishahar Route, Bhujung-Dudhpokhari Route, etc. to equate the declining stay length of visitors due to road networks Refer to key activities of this action under the theme Research & Information (7.3)
	4.2.5	Diversify at least One Product and One Service (OPOS) item in each UCO. Refer to key activities of this action under the theme Research & Information (7.3)
	4.2.6	Develop and implement a travel/ tour package for the domestic & Indian pilgrimage to Muktinath & Damodar Kunda

Strategy	4.3	Development of infrastructure in alternative trekking trails
Key Actions	4.3.1	Coordinate government, private, and corporate sectors for the synergy in developing infrastructures in new alternative trekking trails
	4.3.2	Facilitate tourism committee to bring new alternative trekking route into full operation with quality facilities and services including the placement of signage, drinking water, campsites, disposal sites, security posts, bridges, rescue facilities, etc
	4.3.3	Introduce codes for the operation of teashops, rest places, and hotels/lodges for standard services in the new trekking routes
	4.3.4	Improve trail for horse-ride
	4.3.5	Promote trekking trail with some ethnic brands like the Gurung heritage trail at the Ghalegaun-Bhujung-Pasgaun route with a focus on Kohla So Thar (1 st settlement of Gurung)

Strategy	4.4	Maintenance of old infrastructure that enhances productivity and marketing of new local niche products
Key Actions	4.4.1	Provide direct support to the communities to renovate/maintain old infrastructure for community and ecotourism development
	4.4.2	Build skilled human resources for the repair/maintenance of structures and utilities Refer to activities of this action under the theme Capacity Building (10.5)

Strategy	4.5	Improve mechanism for ecotourism information, interpretation, and dissemination
Key Actions	4.5.1	Upgrade visitor information center in UCOs with auditorium facilities, and continue audiovisual show to the visitors
	4.5.2	Support tourism committee for adequate signage and location board with information about unique features & services about specific destinations at different places
	4.5.3	Explore ways and means to increase the flow of more visitors from global communities

Strategy	4.6	Enhance accommodation capacity of hotels/lodges and rest houses
Key Actions	4.6.1	Facilitate tourism committee to let hotel/lodge operators increase facilities to accommodate increasing number of visitors
	4.6.2	Strengthen the capacities of the tourism committee to review codes for hotel/lodge buildings with the strict use of monitoring practices
	4.6.3	Facilitate tourism committee for leasing government land to increase the number of hotels/lodges at the places where private land is difficult to access such as Thorang La
	4.6.4	Provide support to the communities with equipment & materials to organize accommodation facilities/services in promoting homestay services

Strategy	4.7	Effective mechanism set for the safety of visitors
Key Actions	4.7.1	Establishment of a strong coordinate mechanism with local government & tourism entities to devise an effective mechanism for travelers' safety & rescue measures
	4.7.2	Update signage about precaution and safety measures at strategic places
	4.7.3	Establish a rescue center at Thorang La/Phedi with manpower, equipment, and medicines

Strategy	4.8	Building capacities of conservation committees and hotels/lodges/tea shop operators for value-added ecotourism services with PES mechanism in place
Key Actions	4.8.1	Refer to activities of this key action under the theme Capacity Building (10.4.1-10.4.8)

Strategy	4.9	Develop energy plan for ACA
Key Actions	4.9.1	Coordinate with government, AEPC & other agencies in energy sectors for the development of the Integrated Energy Plan of ACA
	4.9.2	Prepare Integrated Energy Plan of ACA

Strategy	4.10	Reduce the use of forest resources by promoting alternative energy devices and technology
Key Actions	4.10.1	Provide support to the Energy Committee to continue services from the kerosene and LP gas depots
	4.10.2	Provide support to the Energy Committee for the wider use of energy-efficient devices and utilities to reduce the use of fuelwood for cooking and space heating

Strategy	4.11	Promote non-conventional energy sources
Key Actions	4.11.1	Support communities for the development of micro hydro and hydropower development by integrating payment for ecosystem service as a mechanism of equity distribution
	4.11.2	Encourage communities to install solar power devices and utilities

Strategy	4.12	Promote community initiatives for intermediate technology in energy management
Key Actions	4.12.1	Continue support to communities for intermediate technology like grinding and water mill
	4.12.2	Provide support to communities for the construction/maintenance of Solarium bathroom
	4.12.3	Support for intensive electrification with a focus on ensuring the coverage of HHs of disadvantage communities under this practice

Strategy	4.13	Research on the application of wind energy in ACA
Key Actions	4.13.1	Refer to activities of this action under the theme Research & Information (7.4.1)

Strategy	4.14	Building capacity of communities for the installation of energy-efficient devices and technology especially the disadvantage communities
Key Actions	4.14.1	Refer to activities of this action under the theme Capacity Building (10.6.1)

Strategy	4.15	Development and maintenance of community & school buildings, bridges, etc.
Key Actions	4.15.1	Provide support to the CAMCs for construction and maintenance of the community buildings
	4.15.2	Provide construction materials for the community and school building
	4.15.3	Develop and rehabilitate the wooden & suspension bridges and culverts at different sites with a focus on improving such structures in the trekking trails

Strategy	4.16	Development & maintenance of community infrastructure for farmer-managed irrigation
Key Actions	4.16.1	Develop and rehabilitate farmer-managed irrigation structures and facilities

Strategy	4.17	Development support to improve existing trail and road
Key Actions	4.17.1	Coordinate government and line agencies for enforcing the conservation codes and environmental standards in the Korala-Jomsom highway
	4.17.2	Provide Support for the construction/maintenance of roads/trails, and other structures

Strategy	4.18	RM level developmental activities*
Key Actions	4.18.1	Construction of Roads (both Primary and Secondary)
	4.18.2	Irrigation
	4.18.3	Drinking Water
	4.18.4	Bridge Construction
	4.18.5	Electrification
	4.18.6	New Trekking Trail Construction
	4.18.7	Hotel Construction
	4.18.8	Riverbed Materials
	4.18.9	Others (If any)

*On consultation with all 15 RM of ACA, these activities will be directed through respective RM and CAMCs, this management plan will endorse these activities. The detailed consultation of these activities is attached in Annex 20.

Outcome	5	Key cultural heritage and practices are restored, conserved, and linked to promote cultural tourism in ACA
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Strategy	5.1	The cultural mapping of ACA and research report on the conservation of the Saligram are in place
Key Actions		Budget allocation is under Research, Education & Knowledge Management 7.6

Strategy	5.2	Culture codes are adopted and xxx cultural and religious sites are renovated given culture conservation and ecotourism
Key Actions	5.2.1	Prepare a Culture Conservation Plan for key sites and support communities to implement the plan

	5.2.2	Develop culture conservation codes for buildings and enforce these that retain the values of the traditional architecture and archeological structures
	5.2.3	Provide support to the communities to continue conserving traditional values of cultural structures such as Dharmasala, Pauwa, temple & Tower, and construction/maintenance of the temple, Dewal, Pauwa, Gumba, Mane, Chhyorten, Thanti, and conservation of caves
		-Construction/maintenance of temple & Tower (Sikles & Jomsom)
		-Construction/maintenance of temple, Dewal, Pauwa, Gumban (Ghandruk, Sikles, Lwang, Bhujung & Jomsom)
		-Construction/maintenance of Gumba (Jomsom, Lwang, Manang)
		-Reconstruction Mane, Chhyorten and cave (Jomsom, Lwang, Manang & Lo-Manthang)
		-Construction of a room in a cave (Jomsom)
		-Maintenance of Thanti in Lwang
		-Gumba & religious site (Bhujung)
		-Temples & worship site (Manang)
		-Siddhisthan construction (Jomsom)
		-Conservation of religious sites (Bhunung)
		-Dhachyang conservation in Manang

Strategy	5.3	Community-managed cultural museum is upgraded and Live Saligram Museum' established to enhance flow of religious pilgrimage
Key Actions	5.3.1	Support communities to upgrade space, utilities and services in existing eco-museum with cultural items
	5.3.2	Provide support to the eco-museum of Jomsom to establish and operate a satellite 'Live Saligram Museum' for the pilgrimage tourism
	5.3.3	Building the capacity of communities for traditional wall art in religious sites and others
		Support for the traditional wall art in religious sites (3) Reeling support for Charchan's Gumba (Jomsom)

Strategy	5.4	Youth's initiative of conservation of cultural traditions, festivals & lifestyles are supported
Key Actions	5.4.1	Provide incentives to the cultural groups & clubs for the folk/local song, theatre, dances, music, dress, customs, events etc
		-Folk song/instrument support to club (Jomsom), local music/songs (Manang), theatre/local song/ traditional music Naumati & Panche Baja (Lwang) etc
		-Local dance & culture (Manang), traditional dress (Bhujung, Manang and Jomsom), Balan Conservation (Bhujung), Chhyabrum and Dhachyang conservation (Manang)
		-Traditional customs, events, dance, and culture (Ghatu, Serka/Chhyatu, Sorathi, Dudhpokhari song, Krishna Charitra, Kusunde Ghatu...) in Sikles, Lwangand Manang,
	5.4.2	Provide incentives to the communities for the conservation of traditional worship practices like Chyongo Mane Puja, Nyune Puja, traditional festivals like Yartung festival
		-Yartung festival (Manang & Lo-Manthang)
		-Traditional culture conservation in Lwang
		-Lohsar conservation in Ghandruk and Lwang
		-Traditional festive conservation in Manang and Bhujung
		-Dharjyo in Manang
		-Lhosar Conservation
	5.4.3	Conservation of traditional technology associated with culture such as Dhiki & Janto
	5.4.4	Provide support for the conservation of honey hunting culture in Ghandruk and Lwang
5.4.5	Provide support for the conservation of Shradhasthal	

Strategy	5.5	Promotional materials for cultural/religious visitors prepared & disseminated
Key Actions	5.5.1	Update and develop a documentary on nature and culture associated with the landscape & heritage value of ACA, and broadcast it
	5.5.2	Publish and disseminate brochure on cultural values specific to UCO
	5.5.3	Support to awareness cleaning/sanitation campaigns around religious sites
		Cleanup campaign around religious sites in Jomsom

Strategy	5.6	Human resources/skills for value addition and cultural practices are in place in ACA
Key Actions	5.6.1	Budget allocation in Governance 10.8

5.4.3.1 Consultation with local Government

To ensure synergy between development and conservation, a consultation was done with all 15 RMs of ACA. The expected programs regarding community infrastructure developments and the use of riverbed materials are briefly described (Annex 20):

Community Infrastructure

During the period of this plan, the RMs inside ACA are expected to carry out the following activities:

- More than 1500 km of local road construction/enhancement.
- 148.12 km of rural irrigation structures are to be made irrigating over a 2172.61-ha area.
- 80 different village drinking water-related projects which benefit over 10456 HHs.
- 33 different rural electricity-related projects including line extensions, pole shifts, etc.
- 84 different bridge constructions with a total length of 9 km.
- Over 2277.5 km trail and 651 hotels construction/maintenance on the public land.

Whereas the IEE threshold for road construction is < 5 km, above which EIA is prescribed, similarly, irrigation stretches (15-500 ha), bridge construction IEE is required for all dimensions within a conservation area, and hotel construction (> 20 rooms or greater than 1500 m²) need IEE.

Sand, Stone, and Gravel

Rivers provide physical and biological resources to sustain life (Dahal, 2015). Changes in river morphology, harm to the aquatic environment, lowering of the groundwater table, and disturbance in wetland habitats are some of the effects of riverbed materials extractions (Dahal et al., 2012).

The Local Government Operation Act -2017 grants Municipalities and Rural Municipalities the authority to manage riverbed materials (Sand, gravel, and stone) within their political boundaries for income generation. But, Section 6 Subsection 7 of ‘Standard on Extraction, Sale, and Management of Stones, Pebbles, and Sand- 2020’ dictates that the excavation and collection of riverbed materials inside PAs shall be as per federal law. The excavation-related activities must comply with the Environmental Protection Act of 2019, the Environment Protection Regulation of 2020, and other relevant legislation. Through this management plan, the developmental activities of RM will be addressed through comprehensive need assessment (EIA/IEE/BES) of the socio-economy, developmental challenges, and aspirations of communities from the rural municipalities adjacent to the ACA. The Funds to execute these developmental activities are allocated in their respective RM 5-year plans (Annex 20). RM is liable for all the costs incurred in implementing the developmental activities listed in Outcome 4, Strategy 4.18, activities 4.18.1-4.18.9. The issue of riverbed materials is alarming in ACA; the RM consultation has

estimated a total riverbed materials extraction of 10329473.10 m³ with an annual allowable of 1259408.55 m³. This may generate NRs 21,74,08,000/year revenue by or through the 15 RM in ACA.

5.4.3.2 ACA- sustainable harvesting of NTFPs

Eighty-four NTFPs are prioritized in ACA for sustainable harvesting (Annex 21 & 22). They are prioritized mainly by the preference of local people, based on their local/domestic use and commercial value. Of 84 prioritized species of NTFPs, a total of 1,005.8 MT fresh weight amount and 332 MT dry weight has been estimated for sustainable harvest, whereas the IEE Threshold is 850 MT for Bark, Flower, Fruit, Leaf & Stem, Root & Rhizome, and Whole plant (Table15). The majority of socially prioritized NTFPs are found in Bhujung UCO (51), followed by Sikles UCO (33), and Manang UCO (29) respectively (see Figure 30). Notably, Yarshagumba, (*Ophiocordyceps sinensis*) 61.40%, Kutki (*Neopicrorhiza scrophulariiflora*) 59.64%, Nirmasi (*Delphinium denudatum*) 57.89%, Satuwa (*Paris polyphylla*) 50.87% and Padamchal (*Rheum australe*) 49.12% are the most sought-after NTFPs in ACA. Over half (58.82%) of the prioritized species are being used. The details of NTFP inventory and sustainable harvesting plan for ACA are presented separately in Annex 23.

Table 15: Parts of NTFP and harvesting amount

Parts of NTFPs	Sustainable Harvest (kgs)	Allowable Harvest in MT (wet)	Allowable Harvest in MT (Dried)	IEE Threshold (MT)
Bark	59920.67	59.92	19.77	150
Flower	2288.07	2.29	0.76	150
Fruit	101733.02	101.73	33.57	200
Leaf & Stem	260843.22	260.84	86.08	150
Root & Rhizome	201251.48	201.25	66.41	50
Whole plant	379795.65	379.80	125.33	150
Total	1005832.12	1,005.83	331.92	850

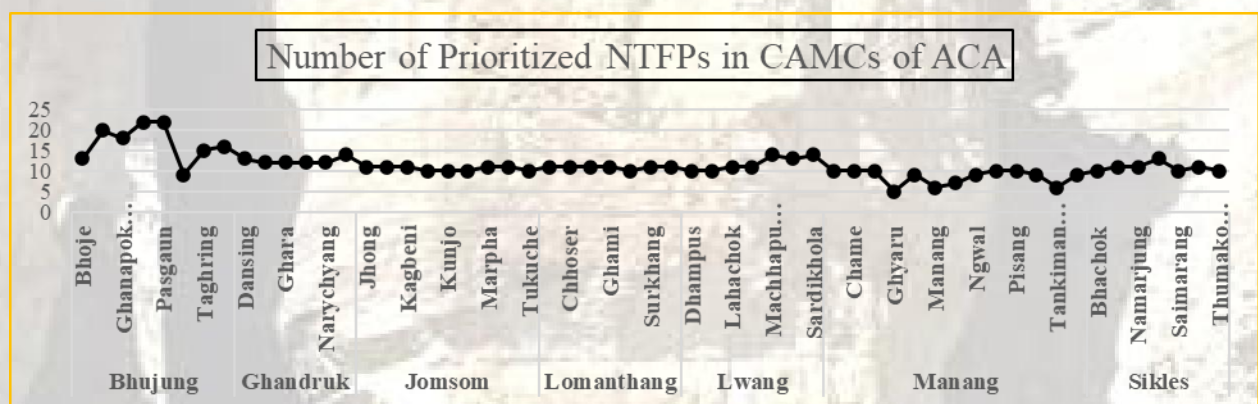


Figure 30: Status of NTFP in CAMCs of ACA

5.4.4. Theme 4: Climate Action

This theme enables local governments and communities to explore ways and means to mitigate and adapt measures against adversities caused by CC.

Table 16: Climate Action in ACA

Outcome	6	The resilience of socio-ecological complexes to climate change and disaster risk is enhanced
Strategy	6.1	Assessment of ecological vulnerabilities & adaptive capacities of the communities' capabilities to overcome stresses of climate change
Key Actions	6.1.1	Assist communities in assessing the environmental vulnerabilities and adaptive capacity
	6.1.2	Assist communities and groups in the preparation/implementation of the adaptation plan
	6.1.3	Assist local government and line agencies for the enforcement of environmental guidelines in infrastructure development such as roads, hydropower development, transmission lines, and so on
Strategy	6.2	Technical assistance to local government to prepare & implement Local Adaptation Plans of Action (LAPA)
Key Actions	6.2.1	Assist local government in preparing LAPA in areas within ACA that do not have LAPA
	6.2.2	Provide matching support to the local government to implement LAPA in the ACA
Strategy	6.3	Mitigation & restoration of land degradation to safeguard public land and habitats from the potential impacts of disasters
Key Actions	6.3.1	Assist committee/sub-committee to map priority areas of land degradation that require active management
	6.3.2	Provide support to committee/sub-committee for the plantation of bamboo and rattans in gullies and open areas of all UCOs
	6.3.3	Provide support to the communities for the riverbank stabilization in collaboration with the local government
	6.3.4	Provide support to the communities for the bioengineering of landslide, and soil and watershed management
Strategy	6.4	Building capacity of communities/institutions for climate adaptation and mitigation measures
Key Actions	6.4.1	Refer to activities of this action under the theme Capacity Building (10.10)

5.4.5 Theme 5: Research, Education, and Knowledge Management

ACA has many profound stories on nature conservation, and the depository of many learning is misplaced. This theme strengthens ACA to research conservation gaps, update baseline information, and make proper documentation of all research findings for further application. This theme also updates the conservation awareness package of the past and influences diverse groups of stakeholders which helps minimize negative impacts of development activities.

Table 17: Research, Education, and Knowledge Management in ACA

Outcome 7 Research in diverse socio-ecological issues are convened, documented, and disseminated

Strategy	7.1	Research on socio-ecological trends in ACA
Key Actions	7.1.1	Create a high-level research committee/board in partnership with other research institutions to provide overall guidance on research themes
	7.1.2	Diversify research themes towards unexplored topics and area
	7.1.3	Support scholars to conduct long-term research on different components of the socio-ecological system
	7.1.4	Continue support for graduate students to conduct short-term studies on natural resources and biodiversity
	7.1.5	Update biodiversity and socio-economic database given the new federal structure
	7.1.6	Conduct wetlands inventory of ACA and generate wetlands map
	7.1.7	Document traditional and Indigenous knowledge on conservation and uses of natural resources and biodiversity
	7.1.8	Develop/apply software for the proper documentation and access to the information

Strategy	7.2	Research on wildlife
Key Actions	7.2.1	Conduct wildlife census with a focus on threatened, endangered, and government-protected species
	7.2.2	Conduct study on game & trophy hunting potential of selected wildlife species

Strategy	7.3	Research on ecotourism
Key Actions	7.3.1	Conduct an impact assessment of ecotourism on socio-ecology and its broader level contribution to the national economy
	7.3.2	Conduct study to explore opportunities for diversifying ecotourism products and services
	7.3.3	Conduct a study to explore new tourism destinations such as adventure trekking, mountain biking, rock climbing, glacier walking, water sports tourism, sky diving, etc.
	7.3.4	Explore the potential of new tourist routes across south Annapurna to the north to Bhujung, Ghale Gaun, Mustang to Tilicho
	7.3.5	Conduct market research with a focus on tourists' perceptions, demand, and standard

Strategy	7.4	Research on the application of wind energy in ACA
Key Actions	7.4.1	Prepare an action plan for the application of wind energy in Jomsom, Lo-Manthang & Manang

Strategy	7.5	Research on socio-ecological prosperity
Key Actions	7.5.1	Research the economic effectiveness of the Annapurna Conservation Area
	7.5.2	Conduct detailed biological and ethnobotanical surveys and value chain analysis of NTFPs including MAPs
	7.5.3	Conduct a feasibility study for Lokta and assessment of establishing a refinement center in Bhujung

Strategy	7.6	Research and documentation of the key cultural practices and heritage
Key Actions	7.5.1	Conduct cultural mapping of the ACA with key heritage sites and practices, and prioritize sites for interventions
	7.5.2	Conduct a study on the conservation of Saligram in Dhye (Mustang)

Outcome	8	Diverse groups of stakeholders are aware of conservation ethos and put it into practice
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Strategy	8.1	Development of target group-specific, updated, conservation education packages
Key Actions	8.1.1	Prepare conservation education package for government personnel, communities, and school students linked with contemporary issues of CA management
	8.1.2	Impart information based on events & workshops to assimilate the strength of government personnel, communities, and students in conservation practices
	8.1.3	Establish a biodiversity visitor center in all UCOs to inform visitors and local people know and be informed about the key biodiversity found in each unit office
	8.1.4	Provide training to local persons on interpretation and management of the visitor centers and ensure financial sustainability by charging entry fee

Strategy	8.2	Continue conservation education in schools and consolidate actions of students for more tangible tasks in the nature conservation
Key Actions	8.2.1	Assist youth with the formation of new green clubs and provide materials and support to the clubs
	8.2.2	Assist sub-committee in forming a network of green clubs, and prepare an annual plan of operation which consists of sets of action in and outside schools
	8.2.3	Assist the network of green clubs to implement their plan, and develop a Conservation Fund to sustain the functioning of green clubs
	8.2.4	Set a mechanism to reward the best performers of green clubs, and provide prizes & incentives

Strategy	8.3	Continue support to the school for infrastructure improvement & conservation education
Key Actions	8.3.1	Provide construction and materials support to 7 schools for the science laboratory and library to help schools grow as model schools
	8.3.2	Provide support to the schools to link conservation and biodiversity in sports and play
	8.3.3	Continue conservation education in schools of all UCOs

Strategy	8.4	Application of new information technology means for disseminating conservation messages
Key Actions	8.4.1	Assist schools in upgrading computer laboratories in 7 schools with internet facilities
	8.4.2	Enhance the skills of teachers and students to apply Mobile Apps for biodiversity mapping and wildlife monitoring of their area, and to document the reports
	8.4.3	Continue support to schools and clubs to observe global environmental events like Wetlands Day, Environment Day, Biodiversity Day, etc

Strategy	8.5	Develop, document, and disseminate updated conservation progresses, processes, and generation issues of ACA for the wider audience in and outside Nepal
Key Actions	8.5.1	Conduct case studies to explore different success stories from ACA, and publish and disseminate success stories
	8.5.2	Update conservation documentaries for the national audience and broadcast these
	8.5.3	Establish a central library in ACA to document all archives, baseline information, publications, lessons, strategic documents, and so on

Strategy	8.6	Building the capacity of communities & groups for the conservation of ACA
Key Actions	8.6.1	Refer to activities of this action under the theme Capacity Development (10.4 to 10.12)

5.4.6 Theme 6: Gender Equality and Social Inclusion

Gender Equality and social inclusiveness are the priorities guided by the national policy. This theme continues past efforts to harmonize gender and equity in ACA and consolidates programs and actions to translate this social force into a conservation economy.

Table 18: Gender Equity and Social Inclusion in ACA

Outcome 9 Mainstreaming of GESI at all levels and processes of conservation area management		
Strategy	9.1	Participation of women, marginalized and socially excluded people in the decision-making process of ACA implementation
Key Actions	9.1.1	Strengthening engagement and roles of women in CAMC
	9.1.2	Strengthening meaningful participation of women and targeted groups in CCs
	9.1.3	Facilitate the process of participation of women, marginalized, and socially excluded people in leadership roles in ACA governance.
Strategy	9.2	Empowerment of women groups for the organizational growth in all UCOs
Key Actions	9.2.1	Provide technical and financial support to women groups to consolidate & convene their conservation and other actions through workshop
	9.2.2	Provide support to community building and materials support to the women groups as an incentive to leverage their actions in conservation, health, and sanitation, and promotion of ecotourism
	9.2.3	Assist women groups to form their network horizontally and vertically to safeguard their interests at all levels of governance structure in the ACA
Strategy	9.3	Empowerment of women for economic sovereignty to enhance their roles in nature conservation
Key Actions	9.3.1	Assist women's groups in creating an endowment fund to sustain their conservation actions toward economic sovereignty
	9.3.2	Provide material and other support to strengthen organizational management of women's cooperatives in carrying out conservation-friendly economic activities
	9.3.3	Strengthen the capacity of women groups to identify their entrepreneurial activities, prioritize activities, and prepare and implement their business plan
	9.3.4	Assist socially marginalized Dalit groups to explore their economic activities, develop package programs for economic activities, and support groups to implement package programs
Strategy	9.4	Enhance the capacities of women and socially marginalized groups for the conservation of nature, culture, and heritage
Key Actions	9.4.1	Enhance the capacity of women groups for the cooperative management of natural resources through study and observation tours
	9.4.2	Continue and upscale scholarship for the formal study of women with an emphasis on the socio-economically marginalized groups
	9.4.3	Assist women's groups to upscale conservation awareness and celebrate events like Women's Day, Teej, and so on
Strategy	9.5	Support women groups for maternity, childcare, and nutrition so that their health condition improves to reciprocate their participation in the conservation of nature and culture
Key Actions	9.5.1	Support women groups for awareness camps to safeguard mothers from the transmission of HIV/AIDs and other diseases

	9.5.2	Strengthen women's groups through general awareness and material distribution for family planning and birth control
	9.5.3	Continue support to the women's groups for the operation of the childcare center to enable mother members to contribute to off-farm and conservation activities

Strategy	9.6	Capacity building of the women & socially marginalized groups for their organizational development
Key Actions	9.6.1	Refer Capacity Building (10.9.1-10.9.2, 10.12.3)

5.4.7 Theme 7: Governance

This theme intends to set conservation governance given the post-handing-over management of ACA. Besides, the plan creates an enabling environment to collaborate with the different tiers of government from the center to the local, brings private engagement in green enterprises, and integrates PES in all conservation-related businesses. A Program Development Unit is also envisaged by this plan. The conservation governance system in ACA will represent a collaborative, participatory, and multi-stakeholder approach aimed at achieving the dual objectives of biodiversity conservation and sustainable development

Table 19: Governance in ACA

Outcomes	10	The governing capacity of local institutions & people is enhanced to leverage services on the conservation of natural resources and biodiversity nature, conservation of local culture and heritage, and promotion of tourism for the socio-ecological prosperity in ACA
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Strategy	10.1	Building the capacity of local institutions for good conservation governance
Key Actions	10.1.1	Provide materials and equipment support for the administrative, technical, and capacities of community organizations such as CAMCs, UCCs, and CCs
	10.1.2	Establish effective inter-institutional coordination mechanisms and methodologies to work in coherence among CAMCs, UCOs, CCs, and so on, and track the signs of progress and practices
	10.1.3	Consolidate coordination mechanism among government, line agencies, private and other stakeholders for synergy from shared opportunities and strengths
	10.1.4	Build capacity of CAMC, UCOs CCs, and sub-committees through training and workshops for good governance, plan-based operation, and organizational management from planning, designing, implementing, and monitoring actions
	10.1.5	Provide support to CAMCs, UCOs & CCs to implement community initiatives of conservation/development actions for socio-ecological prosperity, and build their capacity to leverage external funding from the proposition development
	10.1.6	Update facilities & practices for effective monitoring and reporting systems

Strategy	10.2	Capacity development of local institutions for the scientific management of ecosystems and habitats in ACA
Key Actions	10.2.1	Assist forest sub-committee to prepare operation plans with a focus on habitat restoration, livestock & rangeland management, ecotourism, and forests-based entrepreneurship, and implement interventions based on operation plan
	10.2.2	Continue extension of awareness programs for the conservation of habitats and ecosystems given scientific management of forests, rangelands, and wetlands
	10.2.3	Assists CAMCs and forest sub-committee to exchange conservation learning through study and observation tours within ACA

	10.2.4	Organize training events to enhance the leadership and decision-making capacities of the conservation leaders for natural resources and biodiversity management
	10.2.5	Enhance capacities of the local leaders and communities for the legal proficiency related to the management and wise uses of natural resources and biodiversity
	10.2.6	Enhance capacities of forest subcommittee through training for the silviculture and scientific management of forests
	10.2.7	Enhance administrative, financial, and auditing capacities of all CAMCs with a focus on socio-ecological prosperity. & Contemporary issues of environment conservation
	10.2.8	Enhance the capacity of CAMCs to consolidate anti-poaching practices of wildlife management

Strategy	10.3	Capacity development of committee and sub-committee for the management of forest fire in ACA
Key Action	10.3.1	Sensitize & aware communities to avoid activities increasing the risks of forest fire, and to adopt local ways/means to control forest fire

Strategy	10.4	Building capacities of conservation committees and hotels/lodges/tea shop operators for value-added ecotourism services
Key Actions	10.4.1	Enhance capacities of local people through training to integrate & consolidate their past practices in promoting local culture & tradition as integral to the ecotourism
	10.4.2	Mainstream youth force through training & workshops for cultural performances in conserving local tradition, folk songs/dances, costumes, cultural heritage & values
	10.4.3	Assist the Tourism Management Committee (TMC) to review and update menu-based quality products & services with monitoring & reporting system
	10.4.4	Continue enhancing capacities of communities through training for housekeeping and hospitality to upgrade and maintain uniformity in services and standards in the hotels/lodges with a monitoring & reporting system
	10.4.5	Continue support to TMC to provide trekking cook training for hotels/lodges operators with a provision of geography & culture-specific at least one standard food item in the service menu with a monitoring & reporting system
	10.4.6	Continue proficiency language training to hotel/lodges operators and nature guides linked with conservation & cultural values of ACA, availability of health, rescue, and safety services in ACA, and about 'Do' & 'Do Not' codes
	10.4.7	Assist the Tourism Management Committee in devising a mechanism, so that financial assistance like credit/grant is accessible to trained & resource-poor entrepreneurs to initiate/upscale businesses
	10.4.8	Organize exposure visits to the members TMC, CAMC, UCC, and CC, and hotel/lodges operators to have a broader perspective helpful to value add in ecotourism

Strategy	10.5	Enhance capacities of communities for the vocational skill to repair/maintain infrastructures, focusing opportunities more for disadvantaged communities
Key Actions	10.5.1	Assist committees/sub-committees with the vocational skills of their members such as plumbing, masonry work, carpenter, house wiring, and so on

Strategy	10.6	Building capacity of communities for the installation of energy-efficient devices and technology focusing on disadvantaged communities
Key Actions	10.6.1	Provide support to sub-committee training to communities for preparing & marketing bio-briquette to reduce the use of fuelwood in cooking and space heating
	10.6.2	Assist the sub-committee to train its members for the repair/maintenance of solar devices

Strategy	10.7	Building the capacity of different interest groups for diverse options contributing to the socio-ecological prosperity of ACA
Key Actions	10.7.1	Assist sub-committee to devise a mechanism with codes & principles to provide technical & financial support to the communities to run forest-based 7 enterprises, one in each UCO
	10.7.2	Enhance the capacity of the conservation farmers to produce vegetables, crops, fruits, and so on in kitchen gardens and farmland with the application of Integrated Pest Management and bio-fertilizers with the mandatory provision of fodder plantation
	10.7.3	Continue providing materials and tools to resource-poor small farmers such as management of agriculture nurseries, agricultural tools, crop seed, fruit seedlings, etc with the mandatory provision of fodder plantation
	10.7.4	Continue enhancing capacities for the livestock & fishery development including their health with the mandatory provision of fodder plantation to reduce grazing pressure in rangeland
	10.7.5	Enhance the capacity of small farmers for agro-based entrepreneurship development with the mandatory provision of fodder plantation
	10.7.6	Enhance the capacity of the farmers for conservation such as resource survey, stock taking, plantation, value addition, and so on
	10.7.7	Enhance the capacity of the farmers to discourage the use of synthetic fertilizers & pesticides and encourage the use of bio-fertilizers and bio-pesticides, and device mechanism to provide financial support to produce bio-fertilizers/bio-pesticides as an integral to IPM
	10.7.8	Enhance the capacity of some farmers for the piloting intensive farming of agriculture with the application of IPM in Ghandruk
	10.7.9	Provide Support to the socially marginalized Dalit with materials/equipment for agriculture
	10.7.10	Continue support for the veterinary technicians for taking care of livestock health

Strategy	10.8	Capacity building to improve community skills & practices on valuing culture & heritage in ACA
Key Actions	10.8.1	Assist the sub-committee in building the capacity of its member's masonry work, woodcraft, and color painting for the renovation of cultural heritage
	10.8.2	Assist the sub-committee in upgrading its cultural museum and operating the live museum of the Saligram
	10.8.3	Continue providing support to repair/maintenance of traditional stay places, cemetery houses, and so on

Strategy	10.9	Capacity building of the women & socially marginalized groups for their organizational development
Key Actions	10.9.1	Assist in organizing training for the group management & organizational growth of women and socially marginalized groups
	10.9.2	Assist groups/communities to diversify their IGA including microenterprise development, and enhance their skills & capacity for apple and Tora refinery, value-added cereal and cash crop products, poultry, and so on

Strategy	10.10	Building capacity of communities/institutions for climate change adaptation and mitigation measures
Key Actions	10.10.1	Build the capacity of CAMCs, UCOs CCs, and sub-committees through training for integrating their operation plans/actions given LAPA implementation jointly with local government
	10.10.2	Train communities to link climate adaptation and mitigation actions in the planning framework/actions of the local government to implement LAPA
	10.10.3	Assist communities, local institutions, and local government to devise a mechanism for the fund investment, and provide funds to implement climate adaptation and mitigation measures under the LAPA framework.
	10.10.4	Sensitize schools and assist them to incorporate climate change issues in the curriculum of

		schools and extra-curricular activities of the students and teachers
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Strategy	10.11	Building Capacity of Communities for the better health & sanitation in ACA
Key Actions	10.11.1	Continue support the sub-communities for the First Aid training and services
	10.11.2	Continue support to women groups for health/nutrition, family planning, maternity & childcare, and so on
	10.11.3	Assist communities to build human resources for health services through scholarships for nursing study

Strategy	10.12	Building the capacity of communities & groups for the conservation of ACA
Key Actions	10.12.1	Create targeted programs that engage youth and women in conservation leadership roles, providing skills development and mentorship to empower these groups in active conservation efforts.
	10.12.2	Develop programs that offer training in alternative livelihoods such as handicrafts, medicinal plant cultivation, and value-added agricultural products to reduce pressure on natural resources.
	10.12.3	Support sub-committee to provide scholarships to economically disadvantaged students, socially excluded groups, and girls students

Outcome	11	Empowered management committees, reflect the success of the past and align with the new federal structure, are functioning
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Strategy	11.1	Provide policy and institutional reform support to the government and communities to restructure the different committees and groups corresponding to the different tiers of conservation area management (Regional, local units, and wards)
Key Actions	11.1.1	Coordinate with the government to set collaborative mechanisms among central, provincial, and local governments and exist strategy of NTNC
	11.1.2	Provide feedback to the government for policy change and institutional reforms as required within the changing context
	11.1.3	Identify people's needs, perceptions, and demands on policy and institutional reforms as required by the changing context, and share experiences for policy implications
	11.1.4	NTNC to continue technical backstopping in the post-hand-over management of ACA
	11.1.5	Provide support for environmental monitoring

Strategy	11.2	Strengthening the organizational capacity of the conservation area management committees
Key Actions	11.2.1	Continue administrative support to the ACA HQ and UCOs
	11.2.2	Strengthen organizational management of capacities of UCOs, CAMCs, and CCs
	11.2.3	Strengthen technical capacities of ACA, UCOs, CAMCs, and CCs for planning, designing, and implementing need-based programs and actions
	11.2.4	Provide support for the formation of CAMC and its sub-committee in some UCOs and support for auditing all CAMCs

Strategy	11.3	Revision & updating of financing mechanism to ensure financial sustainability
Key Actions	11.3.1	Develop a system for regular review and adjustment of visitors' entry fee
	11.3.2	Facilitate processes to integrate PES mechanism in all conservation-related trades and businesses including mining and hydropower development
	11.3.3	Coordinate with the local government to harmonize budget allocation for mutual planning & actions
	11.3.4	Continuously explore the potential for availing new financial opportunities like REDD+GCF

		Daewin Initiatives, etc.
	11.3.5	Establish a Program Development Unit in ACA with --resources for proposal development and monitoring of all interventions in the ACA
	11.3.6	Promote private sector engagement in green enterprise development & conservation partnership

Strategy	11.4	Building the capacity of local institutions for good conservation governance
Key Actions	11.4.1	Refer to key actions under the cross-cutting theme Capacity Building (10.1-10.7)

5.4.8 Theme 8: Health and Sanitation

Following are key strategies and actions under the theme of health and sanitation in ACA:

Table 20: Health and Sanitation in ACA

Outcome	12	Community access to the facilities for health & sanitation enhanced at all levels as an incentive for nature conservation in ACA
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Strategy	12.1	Communities' initiatives of the development of infrastructure and facilities for sanitation and basic hygiene supported
Key Actions	12.1.1	Backstop the CAMCs for preparing and implementing strategies and mechanisms for sanitation and basic hygiene including the One House One Tap scheme to optimize the use of drinking water
	12.1.2	Provide support to the communities for the conservation and maintenance of water heads to retain contamination-free discharge of water
	12.1.3	Provide support to the community groups for extending the coverage of drinking water from the new supply system and maintenance of old structures
	12.1.4	Provide support to the communities for the sanitary toilets and management of common bathroom
	12.1.5	Assist communities in consolidating solid waste management following the '3 R' principles Refuse, Reuse, and Recycle

Strategy	12.2	Support for basic health services
Key Actions	12.2.2	Support communities to conduct health awareness camps programs and to access health posts for general health care and medicines
	12.2.3	Continue support for the emergency health services for communities & visitors

Strategy	12.3	Support for health insurance
Key Actions	12.3.1	Sensitize the communities to access government scheme of basic health care through the health insurance mechanism
	12.3.2	Provide subsidies to the ultra-poor communities to pay premiums for health insurance

Strategy	8.4	Building Capacity of Communities for the better health & sanitation in ACA
Key Actions	12.4.1	Refer to activities of this action under the theme Capacity Building (10.11)

5.5 MANAGEMENT APPROACHES

5.5.1. ICDP Approaches

This Plan still relies upon the trident foundation of ACA based on ICDP. This plan foresees this approach to drive ACA from livelihoods to socio-ecological prosperity (Figure 31).

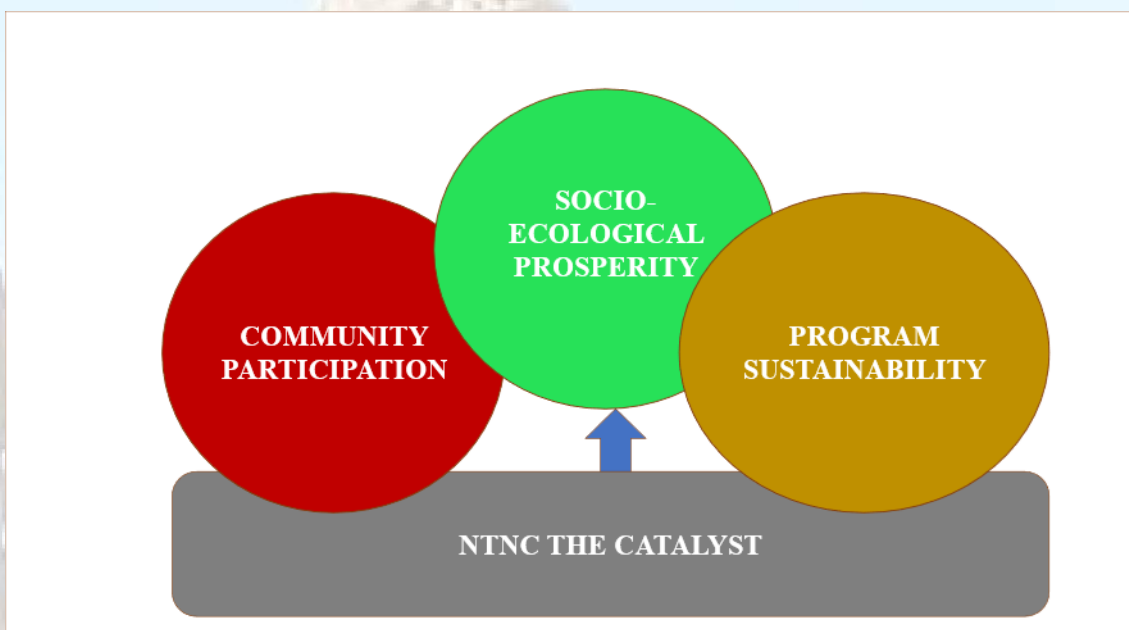


Figure 31: The Trident Foundation of ACA: An ICDP Model

5.5.2. Seven 'S' Approaches

The '7 S' approach envisaged by the second management plan of ACA (2009-2012) is the key instrument that reinforced ICDP approaches in developing linkages among different themes, objectives, and activities. This approach is still relevant to consolidating the mechanism of community partnership. The '7 S' are: This plan emphasizes enhancing the capacity of local communities to conserve their rich and unique biodiversity, preserve cultural heritage, diversify options for socio-ecological prosperity, and put into effect sustainable tourism through participation, social mobilization, consensus building, collaboration, and partnership mechanisms.

Table 21: The Seven "S" Approach of ACA

Vernacular '7 S'	Meaning	Description of processes and results
Sahabhagita	Participation	Participation of stakeholders at all levels from central to provincial and grass-root levels, including private engagement at both individual or institutional capacities
Samajik Parichalan	Social mobilization	Preparation of social capital through capacity development and sensitization process so that all sections of society are taking part in any intervention
Samajdari	Consensus building	Process of taking ownership of any action undertaken
Sahakarya	Collaboration	Mechanism of joint actions
Sajhadari	Partnership	Joint intervention with shared strength and resources
Sansthatag Chyamata	Institutional capacity	Enabling institutions for legal, administrative, technical, and financial processes & progresses

Abhibridi	enhancement	
Sashaktikaran	Empowerment	Mechanism/means to enable individual or institution in making appropriate decision

5.5.3 General Approaches

5.5.3.1 Shift from the livelihoods to the socio-ecological prosperity

On the gravity of comparative economic & development indicators (title 2.8.9.8), ACA has an adequate basis to make its shift from the livelihoods to 'Socio-ecological Prosperity'. The combination of the Legatum Prosperity Index and ecological perspective ([wikipedia.org/wiki/Prosperity Ecological](http://wikipedia.org/wiki/Prosperity_Ecological)) may result from combined indicators on economic growth, education, health, personal well-being, quality of life, and environmental conditions.

5.5.3.2 Strengthen local institution for organizational management

Prior investment in ACA has successfully built the capacities of local institutions particularly the CAMCs and their federation to undertake conservation actions for conservation, ecotourism, and community development. Community forest/rangeland user groups will be taken as a grassroots level organization and special capacity building types of trainings, workshops will be organized to build the capacity of such institutions. Now, this plan builds their capacities for their institutional growth so that they take an absolute stake in identifying programs & action, prioritizing key action areas and their implementations following the spirit of the Planning Management Cycle. This plan will strengthen the technical, administrative, and financial capacities of a local institution, which enable the local institution to take the custodian role of ACA after its management handover to the communities.

5.5.3.3 Climate change responsive practices

As climate change has become one of the major environmental concerns that already has started to impact agriculture, rangeland, and forest ecosystems, the economic and ecological effects are imperative to judging the magnitude of future impacts on the socio-economy, ecology, and biodiversity of ACA. This plan emphasizes building local capability (skill, means, and resources) through sensitization, inter-institutional coordination, training/workshops, entrepreneurship development, and partnership from the mutual understanding and collaboration of the local government. All the actions intervened under this plan will harmonize climate-responsive measures, which will make ACA the climate-responsive and resilient conservation area in Nepal.

5.5.3.4 Partnership and Private Engagement

This plan continues to emphasize partnership, resource sharing, and linkage with related organizations (GOs including local government bodies and the private sector) for undertaking community infrastructure works (construction, repair, and maintenance) and products and services delivery (accommodation, entertainment, facilitation to tourists, agriculture and livestock development, enterprise development). Likewise, it focuses on working closely with the local and district-level government bodies (*Rural Municipality* and province) so that they would not only support the conservation efforts of ACAP but mainstream conservation and tourism promotion activities in their policies and program frameworks. In addition, this plan anticipates a pivotal role of the private sector in NTFPs, cash crops/fruits, mines/minerals, and



hotel enterprises, so that market functions follow the principles of supply and demand but safeguard ecological integrity

5.5.3.5 Payment for ecosystem services as an equity distribution mechanism

The PES is one of the best mechanisms to link resources in affluent and poor areas up and downstream, the national learning from the piloting of PES will be introduced in ACA. This plan will mainstream PES in all trade & business enterprises that are linked with the conservation of natural resources and biodiversity so that benefits are distributed to sustain socio-ecological prosperity.

5.5.3.6 Gender and social inclusion

Gender and social inclusion are the mandatory strategy to mainstream the concerns of all sections of society emphasizing the inclusion of poor and marginalized communities in all key sectors such as biodiversity conservation, tourism, IGAs, cultural heritage preservation, and so on. The concerns of the socially and economically marginalized ones, poor, *Dalits*, ethnic groups, and women are tied up through separate activities like entrepreneurship, microenterprise creation, schooling/vocational study, and capacity development.

This Plan continues the previous strategy to ensure the involvement of marginalized communities in key executive positions of the local institutions to influence the decision-making process and safeguard their concerns in the conservation

CHAPTER 6: RESEARCH, MONITORING & CAPACITY BUILDING

6.1 RESEARCH PRIORITIES

Theme 5 is for strengthening the research areas of ACA. Table 21 shows the output and activities-wise budget. This theme envisioned the following 12 outputs.

- a) **Output 7.1:** Develop & implement a research mechanism on the socioeconomics and biodiversity of ACA.
- b) **Output 7.2:** Explores the status of threatened, endangered & government-protected species and assessment of game/trophy potential of selected wildlife species.
- c) **Output 7.3:** Socioeconomics, new opportunities, and value addition to enhance ecotourism.
- d) **Output 7.4:** Prepare an action plan for wind energy and provide benefits to communities.
- e) **Output 7.5:** Research on the environmental and socio-economic effectiveness of ACA and opportunities from NTFPs on the socio-ecological prosperity, and
- f) **Output 7.6:** Cultural mapping of ACA, and preparing a comprehensive research report on conservation and wise use of the Saligram in harmony with cultural and religious beliefs.
- g) **Output 8.1:** Development of target group-specific, updated, conservation education packages.
- h) **Output 8.2:** Continue conservation education in schools and consolidate actions of students for more tangible tasks in nature conservation.
- i) **Output 8.3:** Continue support to the school for infrastructure improvement & conservation education.
- j) **Output 8.4:** Application of new information technology means disseminating conservation messages.
- k) **Output 8.5:** Develop, document, and disseminate updated conservation progress, processes, and generation issues of ACA for the wider audience in and outside Nepal.
- l) **Output 8.6:** Building the capacity of communities & groups for the conservation & extension of ACA.

A total of Rs 190019 thousand is estimated to be spent on this theme.

Table 22: Major Research Areas in ACA with its Outcomes, Outputs, and Activities

Outcome	7	Researches in diverse socio-ecological issues are convened, documented, and disseminated
Key Actions	7.1	Research on socio-ecological trends in ACA
	7.1.1	Create a high-level research committee/board in partnership with other research institutions to provide overall guidance on research themes
	7.1.2	Diversify research themes including unexplored topics and area
	7.1.3	Support scholars to conduct long-term research on different components of the socio-ecological system
	7.1.4	Continue support for graduate students to conduct short-term studies on natural resources and biodiversity
	7.1.5	Update biodiversity and socio-economic database given the new federal structure
	7.1.6	Conduct wetlands inventory of ACA and generate wetlands map
	7.1.7	Document traditional and Indigenous knowledge on conservation and uses of natural resources and biodiversity
	7.1.8	Develop/apply software for the proper documentation and access to the information

Strategy	7.2	Research on wildlife
Key Actions	7.2.1	Conduct wildlife census with a focus on threatened, endangered, and government-protected species
	7.2.2	Conduct study on game & trophy hunting of selected wildlife species

Strategy	7.3	Research on ecotourism
Key Actions	7.3.1	Conduct an impact assessment of ecotourism on socio-ecology and its broader level contribution to the national economy
	7.3.2	Conduct study to explore opportunities for diversifying ecotourism products and services
	7.3.3	Conduct a study to explore new tourism destinations such as adventure trekking, mountain biking, rock climbing, glacier walking, water sports tourism, sky diving, etc.
	7.3.4	Explore the potential of new tourist routes across south Annapurna to the north to Bhujung, Ghale Gaun, Mustang to Tilicho
	7.3.5	Conduct market research with a focus on tourists' perceptions, demand, and standard

Strategy	7.4	Research on the application of wind energy in ACA
Key Actions	7.4.1	Prepare an action plan for the application of wind energy in Jomsom, Lo-Manthang & Manang

Strategy	7.5	Research on socio-ecological prosperity
Key Actions	7.5.1	Research the economic effectiveness of the Annapurna Conservation Area
	7.5.2	Conduct detailed biological and ethnobotanical surveys and value chain analysis of NTFPs including MAPs
	7.5.3	Conduct a feasibility study for Lokta and assessment of establishing a refinement center in Bhujung

Strategy	7.6	Research and documentation of the key cultural practices and heritage
Key Actions	7.5.1	Conduct cultural mapping of the ACA with key heritage sites and practices, and prioritize sites for interventions
	7.5.2	Conduct a study on the conservation of Saligram in Dhye (Mustang)

Outcome 8 | Diverse groups of stakeholders are aware of conservation ethos and put it into practice

Strategy	8.1	Development of target group-specific, updated, conservation education packages
Key Actions	8.1.1	Prepare conservation education package for government personnel, communities, and school students linked with contemporary issues of CA management
	8.1.2	Impart information based on events & workshops to assimilate the strength of government personnel, communities, and students in conservation practices
	8.1.3	Establish a biodiversity visitor center in all UCOs to inform visitors and local people know and informed about the key biodiversity found in each unit office
	8.1.4	Provide training to local persons on interpretation and management of the visitor centers and ensure economic sustainability by charging entry fee

Strategy	8.2	Continue conservation education in schools and consolidate actions of students for more tangible tasks in the nature conservation
Key Actions	8.2.1	Assist youth with the formation of new green clubs and provide materials and support to the clubs

	8.2.2	Assist sub-committee in forming a network of green clubs, and prepare an annual plan of operation which consists of sets of action in and outside schools
	8.2.3	Assist the network of green clubs to implement their plan, and develop a Conservation Fund to sustain the functioning of green clubs
	8.2.4	Set a mechanism to reward the best performers of green clubs, and provide prizes & incentives

Strategy	8.3	Continue support to the school for infrastructure improvement & conservation education
Key Actions	8.3.1	Provide construction and materials support to 7 schools for the science laboratory and library to help schools grow as model schools
	8.3.2	Provide support to the schools to link conservation and biodiversity in sport and play
	8.3.3	Continue conservation education in schools of all UCOs

Strategy	8.4	Application of new information technology means disseminating conservation messages
Key Actions	8.4.1	Assist schools in upgrading computer laboratories in 7 schools with internet facilities
	8.4.2	Enhance the skills of teachers and students to apply Mobile Apps for biodiversity mapping and wildlife monitoring of their area, and to document the reports
	8.4.3	Continue support to schools and clubs to observe global environmental events like Wetlands Day, Environment Day, Biodiversity Day, etc

Strategy	8.5	Develop, document, and disseminate updated conservation progresses, processes, and generation issues of ACA for the wider audience in and outside Nepal
Key Actions	8.5.1	Conduct case studies to explore different success stories from ACA, and publish and disseminate success stories
	8.5.2	Update conservation documentaries for the national audience and broadcast these
	8.5.3	Establish a central library in ACA to document all archives, baseline information, publications, lessons, strategic documents, and so on

Strategy	8.6	Building the capacity of communities & groups for the conservation & extension of ACA
Key Actions	8.6.1	Refer to activities of this action under theme Capacity Development (10.2 to 10.12)

6.2 MONITORING

A monitoring unit is already in function in NTNC. ACA Pokhara monitors UCO-level activities. A monitoring Working Group (MWG) for the monitoring and evaluation of activities at the CAMC level is also functional. CAMCs do self-evaluation of their performances. The current monitoring mechanism needs consolidation for its effectiveness, so this Plan recommends a Program Development Unit which will be responsible for both the program development and regular monitoring following progress, process, and finance indicators at different levels. The Program Development Unit needs to be furnished with human resources and utilities. Third-party monitoring is suggested for independent assessment at the mid-term and end. Environmental monitoring as recommended by the IIE report is internalized within the LFA under Theme 1, Key Action 1.1.5 of this Plan. However, some activities enter intensive monitoring to deliver strategic results on green economy, gender/inclusiveness, biodiversity monitoring, and so on. A total fund of Rs 15416500 is allocated for effective monitoring purposes (Table 23).

Table 23: Major monitoring areas under themes, strategy, and activities

Themes/strategy/Key Activities	Activities/ Descriptions
Theme 3	Conservation economics
Strategy 3.5	Assist landless & socially deprived communities to explore their economic activities so that conservation actions in ACA gain more height
Theme 5	Research, Education, Knowledge Management
Key Activity 8.4. 2	Enhance the skills of teachers and students to apply Mobile Apps for biodiversity mapping and wildlife monitoring of their area, and to document the reports
Theme 7	Governance
Strategy 11.1	Provide policy and institutional reform support to the government and communities that correspond to the different tiers of conservation area management
Key Activity 11.3.5	Establish a Program Development Unit in ACA with human & other resources for proposal development and monitoring of all interventions in the ACA
Strategy 10.1	Building the capacity of local institutions for good conservation governance
Strategy 10.4	Building capacities of conservation committees and hotels/lodges/tea shop operators for value-added ecotourism services with PES mechanism in place

6.3 CAPACITY DEVELOPMENT

Capacity enhancement is the important theme, which crosscuts all other individual themes. This theme enhances the capacities of individuals and institutions (governmental & non-governmental) for skills, technology, materials, equipment, and so on, so all respond to the synergy impacts.

Output 10.1: Enhances the capacities of the institution with a focus on the post-hand-over management of ACA to the communities.

Output 10.2: Builds capacity for the scientific management of forests and biodiversity,

Output 10.3: For forest fire,

Output 10.4: For eco-tourism and so on (Table 24).

Output 10.9: Provides opportunities to women, socially marginalized, and other groups for their meaningful participation in the conservation of nature and culture. This theme interconnects outputs under the theme of Conservation Economics, which then profuse multiple impacts on income-making processes through many NR-based enterprises, ecotourism & small businesses.

The total budget for capacity development programs in ACA is Rs 391,984 thousand for the 5 years.

Table 24: Capacity Development Strategies

Strategies	Description
10.1	Building the capacity of local institutions for good conservation governance
10.2	Capacity development of local institutions for the scientific management of ecosystems and habitats in ACA
10.3	Capacity development of committee and sub-committee for the management of forest fire in ACA
10.4	Building capacities of conservation committees and hotels/lodges/tea shop operators for value-added ecotourism services with PES mechanism in place
10.5	Enhance capacities of communities for the vocational skill to repair/maintain infrastructures, focusing opportunities more on disadvantaged communities
10.6	Building capacity of communities for the installation of energy-efficient devices and

	technology more to disadvantaged communities
10.7	Building the capacity of different interest groups for diverse options contributing to the socio-ecological prosperity in ACA with the PES mechanism in place
10.8	Capacity building to improve community skills & practices on valuing culture & heritage in ACA
10.9	Capacity building of the women & socially marginalized groups for their organizational development
10.10	Building capacity of communities/institutions for climate adaptation and mitigation measures
10.11	Building Capacity of Communities for the better health & sanitation in ACA
10.12	Building the capacity of communities & groups for the conservation & extension of ACA

CHAPTER 7: BUDGET PLAN, SOURCES, AND IMPLEMENTATION OF THE PLAN

7.1 THEMES CORRESPONDING TO THEIR OUTCOMES

Five major themes and six crosscutting themes delivered 12 outcomes (Table 25). Similarly, Budget and log frame indicators are also arranged.

Table 25: Different Themes corresponding to the Expected Outcomes

Themes	Title	Outcomes	Description
01	Species Conservation	01	Conserve species through maintained viable population, addressed challenges to species protection, and enhanced community tolerance to human-wildlife conflicts.
02	Protected Area and Ecosystem Management	02	Biodiversity is conserved, ecosystem services and processes enhanced, and natural resources are managed following conservation principles in the ACA
03	Conservation Economy	03	Opportunities for higher conservation benefits explored and local economy of people enhanced in ACA from ecotourism and green enterprises
		04	Infrastructure for community development & promotion of ecotourism are supported for enhanced ecotourism to contribute to socio-ecological prosperity
		05	Key cultural heritage and practices are restored, conserved, and linked to promote cultural tourism in the ACA
04	Climate Actions	06	The resilience of socio-ecological complexes to climate change and disaster risk is enhanced
05	Research, Educations, Knowledge Management	07	Researches in diverse socio-ecological issues are convened, documented, and disseminated
		08	Diverse groups of stakeholders are aware of conservation ethos and put it into practice
06	Gender Equity and Social Inclusion	09	Mainstreaming of GESI at all levels and processes of conservation area management
07	Governance	10	The governing capacity of local institutions & people is enhanced to leverage services on the conservation of natural resources and biodiversity nature, conservation of local culture and heritage, and promotion of tourism for the socio-ecological prosperity in ACA
		11	Empowered management committees, that reflect the success of the past and align with the new federal structure, are functioning
08	Health & Sanitation	12	Community access to the facilities for health & sanitation enhanced at all levels as an incentive for nature conservation in ACA

7.2 TOTAL ESTIMATED THEME-WISE BUDGET

An estimated five-year budget for the implementation of the ACA Plan is NRs. 2920.250 million. Table 26 illustrates theme theme-wise breakdown of the budget. The budget for environmental monitoring is covered by theme 1 to help mitigate all potential impacts that may have detrimental impacts on the environment from the implementation of the Plan (Table 26). Annex 18 consists of activity activity-wise budget under each theme, outcome, and output.

Table 26: Theme-wise Budget for implementation in ACA (Budget in thousand NPR)

Outcomes	Description	Total	%
Theme 01	Species Conservation	178400	6.11
Theme 02	Protected Area and Ecosystem Management	165782	5.68
Theme 03	Conservation Economy	1280120	43.84
Theme 04	Climate Actions	279750	9.58
Theme 05	Research, Education, Knowledge Management	190019	6.51
Theme 06	Gender Equity & Social Inclusion	41920	1.44
Theme 07	Governance	665979	22.81
Theme 08	Health & Sanitation	118280	4.05
	Grand Total	2920250	100.00

7.3 DISTRIBUTION OF BUDGET

Table 25 & Figure 31 shows the proportional budget under different themes. A large sum of the budget is dedicated to the conservation economy (43.84 %) which explores the opportunities for higher conservation benefits, green enterprises, community infrastructural developments, ecotourism enhancement, and heritage preservation and restoration. The theme of conservation governance (22.81%) will explore ways and means of financial sustainability of ACA through the establishment of a Program Development Unit and consolidation existing mechanism of monitoring structure. Besides, the governing capacity of local institutions and people will be enhanced under this theme to leverage services on conservation and attain socio-ecological prosperity in ACA. The themes like species conservation (6.11%), protected area and ecosystem management (5.68%), and research, education, and knowledge management (6.51%) are focused on the overall conservation extension, outreach, documentation, and biodiversity preservation. Climate change has been an uprising issue and has been a prioritized theme while budgeting i.e., 9.58 %. It utilizes the fund to build resilience, enhance the capacity of communities, and develop local adaptation plans. The budgetary allocation for the other themes is gender equity and social inclusion (1.44%) and Health & sanitation (4.05%) respectively. In the first year, most of the research/study, bidding proposals, and construction works will exhaust a major chunk of the fund. The second year will use 32.45% of the total fund, which will complete most first-year projects and initiate new projects including many NR-based enterprises and income-generating activities. The third, fourth, and fifth-year cycles use more than 19%, 12%, and 10% fund of the total budget respectively (Figure 31).

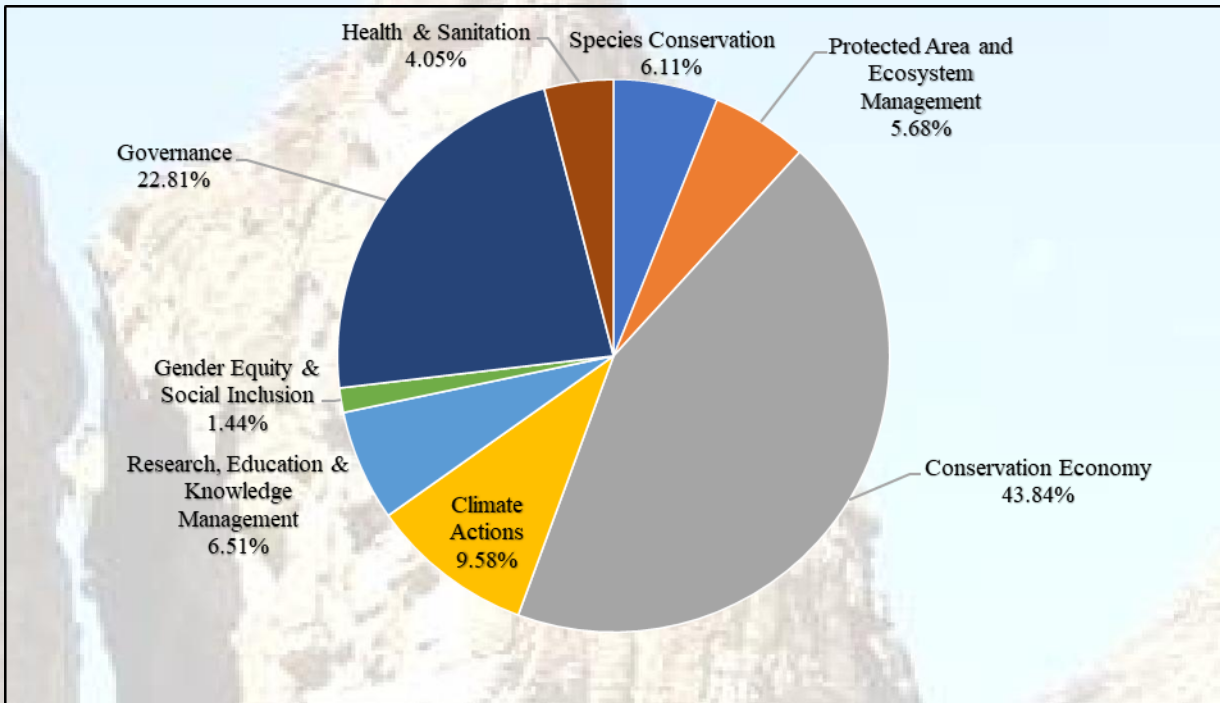


Figure 32: Proportional Budget under Themes

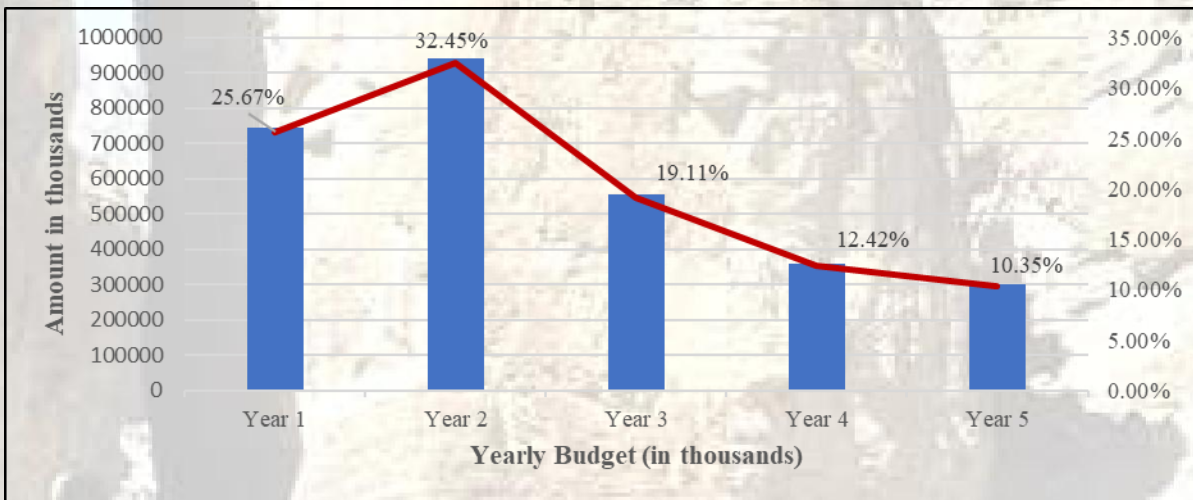


Figure 33: Year-wise Budget of ACA Management Plan

7.4 GENDER & SOCIAL INCLUSION

Gender and social inclusion are one of the major crosscutting issues described under theme seven i.e., Gender equity in this Plan. This theme will mainstream GESI at all levels, which will utilize Rs. 41.92 million (about 1.53%) of the total budget (Figure 31).

7.5 POTENTIAL SOURCES OF FUND

Funding for such conservation areas can come from various sources. Here are some potential sources of funding for the ACA.

- A. **Revision of existing visitor's entry fee:** The existing mechanism of revenue from the visitors' entry fee shall go under the revision process. The current practice of Rs. 3000 from Foreigners and Rs. 1000 from SAARC tourists for entry fees for the open stay period is very low. From revision, more funds will be available, which will help sustain the post-hand-over management of ACA.
- B. **Government funds from the local bodies:** Local governments are entitled to receive direct funds from the central treasury. A proper lobby, dialogue, coordination, and other mechanism can mainstream the conservation framework of ACA into the planning/actions of rural municipalities. A nominal contribution of 15 rural municipalities means a lot to convene actions in ACA. Besides, LAPA documents are endorsed by the government. Good coordination and harmony may open avenues for the joint implementation of LAPA with rural municipalities by sharing energy, efforts, and resources.
- C. **PES mechanism:** The PES mechanism needs to be built within the sustainability strategy of ACA. An integration of PES in all businesses selling the glamor/brand of ACA as the environmental commodities is to enter the decision process to implement PES. These profit seekers may be anyone such as hotel operators, shops, NR-based industries, trekkers, and agents in Pokhara & Kathmandu, etc. Even a nominal fund from these operators could help the financial sustainability of ACA.
- D. **Proposition development:** NTNC requires backstopping ACA to establish a Program Development Unit. This unit will generate proposal-based funds independently. In addition, the unit also monitors of ACA. This practice will enable ACA to explore resources from donors' diversification including the funds from GEF, RED⁺⁺, Carbon Fund, The adaptation fund and so on.
- E. **Carbon Credits:** Conservation projects that reduce carbon emissions or sequester carbon can generate revenue through the sale of carbon credits. Initiatives like reforestation, sustainable land management, or renewable energy projects within the ACA could potentially generate income through carbon trading mechanisms.
- F. **Public-Private Partnerships (PPPs):** Collaborations between government agencies, private businesses, and NGOs can leverage resources and expertise for conservation efforts. PPPs may involve joint funding, co-management agreements, or the outsourcing of specific services to the private sector.
- G. **NGO mobilization:** Mobilization of NGOs in ACA may leverage small funds but in large numbers. Such funds may include the UNDP Small Grant Fund, Darwin Initiative, Rufford, Wetlands International, Ramsar Small Grant Fund, Japan Fund for Global Environment, Kidanaren Nature Conservation Fund, Green Grant Fund, and so on.
- H. **Corporate Sponsorship and CSR:** Companies, especially those with interests in sustainable tourism, environmental conservation, or corporate social responsibility (CSR), may provide financial support to the ACA. This could be through direct funding, sponsorship of projects, or through their CSR initiatives.

By diversifying funding sources and establishing sustainable financing mechanisms, the ACA can ensure long-term conservation and management of its valuable natural and cultural heritage.



7.6 PLAN IMPLEMENTATION

Under the liaison of NTNC, ACAP is responsible for the implementation of this Plan. The UCOs and many grassroots conservation institutions will support directly to implement the Plan.

7.7: LOGICAL FRAMEWORK

Table 27: Logical Framework

	Narrative summary	OVI	MoVs	Assumption
Goal	To manage ACA in a way that ensures the conservation of rich biological & cultural diversities and makes local people prosperous from ecotourism and green enterprises			
Purposes	<ol style="list-style-type: none"> 1. Strengthen ACA governance for the emerging challenges in the post-hand-over management of ACA to the communities 2. Conserve, maintain, and enhance natural resources, biodiversity, and cultural heritage for their wise use to promote ecotourism for socio-ecological prosperity 3. Develop and strengthen the capacity of local institutions for natural resource and biodiversity conservation, culture conservation, and enterprise development 4. Support community initiatives of the infrastructure for the community and ecotourism development 5. Strengthen the capacity of ACA to update information on ACA's themes through research, documentation, and dissemination. 			
Theme 1	Species Conservation			
Outcome 1	Conserved species through maintained viable population, address challenges to species protection, and enhanced community tolerance to human-wildlife conflicts			
Output 1.1	Maintain viable population of wildlife			
Actions	2 species-specific conservation plans developed	2 species-specific conservation plans	Conservation action plans	Community-Led Conservation
	5 species regularly monitored and ecological research conducted	Research	Peer-reviewed Publications	Technological Reliability; Representative Sampling
	100 ha of pastureland managed and maintained	Sustainable Land Management Practices Adopted	GIS Mapping, Livestock Health Records	Grazing Management Compliance
	20 water holes constructed	Usage by wildlife/Livestock	Field Reports and Site Inspections	No Major Droughts or Climatic Shocks
Output 1.2	Address the challenges to protect species			
Actions	Capacity building of at least 300 individuals trained out of which at least one-third women and excluded group.	At least 300 individuals trained	Training materials, Reports	Continued Institutional Support
	Rescue and rehabilitation of	One wild animal rescue and	Rescue and rehabilitation center	Sufficient Funding and

	more than 200 wild animals	rehabilitation center established	Reports from wildlife monitoring programs	Donor Support
	To combat wildlife crime, at least one wildlife Rescue and Rehabilitation Center established	Reduction in wildlife crime incident		Law Enforcement Effectiveness
	At least 150 staff from law enforcement agencies capacitated on wildlife parts identification.	150 staff from law enforcement agencies capacitated on wildlife parts identification	Training materials, Reports	Continued Institutional Support
	At least 30 predator-proof corrals constructed.	30 predator-proof corrals	Community Survey	Donor and partner agencies' financial support
Output 1.3	Enhance Human-wildlife Co-existence			
Actions	At least 2 innovative initiatives with appropriate technological interventions initiated.	2 innovative mitigation activity initiatives	Mitigation measures on-site	Local communities and herders are supportive of adopting new technology-based practices.
	35% reduction in livestock depredation and crop damage due to wildlife	35% reduction in livestock depredation and crop damage	Human-wildlife conflict report from each UCO	No Significant Increase in Wildlife Population beyond Carrying Capacity
	More than 500 HH engaged in income generation	500 HH engaged in income generation	Training materials, Reports	No Major Economic Disruptions
	At least 3000 livestock insured	3000 livestock insured	UCO database	Trust in Insurance Providers
	At least 50% of wildlife victims' families supported for livelihood	50% of wildlife victims' families supported for livelihood	Surveys and Assessments	Sustainability of Alternative Livelihoods
	(One Health Approach) Conduct 3/year regular health assessments and screenings in livestock and wildlife populations.	Implement vaccination programs against common zoonotic diseases	unified data-sharing platform	intersectoral collaboration for effective disease surveillance
Theme 2	Protected Area and Ecosystem Management			
Outcome 2	Biodiversity is conserved, ecosystem services and processes enhanced, and natural resources are managed following conservation principles in the ACA			
Output 2.1	Conservation plans prepared for the critical biodiversity habitats & ecosystems			
Activities	Conduct a detailed survey of the flora and fauna ...	Baseline on flora & fauna in UCOs updated, 5 Biodiversity Register conducted in 5 UCOs	Baseline survey report on biodiversity,	Ecosystem Stability: Sampling Adequacy: Stakeholder Engagement
	Map key biodiversity areas, habitats, and ecosystems as...	Plans for critical habitats/ecosystem prepared &	Plans on critical habitats & progress report on	

		implemented	implementation	
	Develop & implement critical habitat management plan			
	Maintain biodiversity register of IPLCs TKIPs in conservation		Biodiversity Register	
Output 2.2	Documentation of wetlands in place, recognized for the Ramsar enlistment and promoted for sustainable conservation and wise use			
Activities	Conduct scientific inventory of wetlands and prepare...	Wetland's inventory conducted	Inventory report	Local government, line agencies, DNPWC & DoF cooperate fully
	Explore wetlands that have potential for the Ramsar...	Ramsar Information sheet of a wetlands prepared and submitted to government for approval, recommendation for Ramsar nomination, one wetland promoted for sustainable wise use	Ramsar certificate of one wetland, Plans & progresses report for the sustainable wise use of one wetland	
	Build capacity of CAMC for Integrated Wetlands Basin...			
Output 2.3	Two key sites for species are conserved	Species Conservation Plan prepared and implemented	2 species conservation plans, Do & Don't signage at 50 places, Progresses/monitoring report of implementation of plan	DNPWC and DoF fully cooperate
	Develop and implement Conservation Management Plan...			
	Publish and distribute 'Do' and 'Do Not' about flora & fauna...			
Output 2.4	Community innovation of longer-term relief mechanism in practices to reduce human-wildlife conflict	Piloting of WHCC done, Livestock health insurance mechanism developed and piloted, Community Operation of Relief Scheme for Wildlife Depredation' developed/practiced, Support provided for community patrolling and structural barriers for reducing wildlife damages	Progress reports/records on 1 piloting of WHCC, livestock insurance scheme in 22 CAMCs, Contracts of community supports (corrals/hedges/ barrier/trench at 19 sites, ' 360 mm support for patrolling, >170 patrolling events from communities including 9 youth clubs), Monitoring report	Local governments & line agencies cooperate and provides matching fund for 3 piloting, DNPWC & DoF fully cooperate for WHCC

Activities	Continue support to the communities for reducing...			
	Continue support to communities' scheme to ...			
	Piloting for one Wildlife Health & Conservation Clinic			
	Review existing community patrolling ...			
	Provide the cost ...to control illegal collection, poaching...			
	Mobilize youth for wildlife conservation			
	Extend the coverage of livestock insurance scheme...			
	Device the long-term 'Community Operation of Relief Scheme ...			
Output 2.5	Participatory mechanism to minimize impacts of AIS for restoring ecosystems/habitats in place	Assessment on AIS conducted, Participatory local mechanism for AIS control developed, 14 awareness events for AIS management conducted	Map of key AIS species, 1 formal document as a mechanism to control AIS, 1 progress report of 14 awareness events	Local government and line agencies collaborate
Activities	Assess magnitude and threats from key areas map...			
	Innovate mechanism to control the impact of AIS ...			
	Aware communities to safeguard agro-forests ...			
Output 2.6	The community has xxx ha of forests in public, waste & barren land under the scientific management	Plantation in xxx ha of barren land, Promotion of forestry for scientific management in public waste & community-owned barren land	Plantation/monitoring report with visible proof, 57 OPs, a Progress report on 2 scientific mgmt. of forest barren/wasteland in 2 UCOs, Barbed wire (n=27) & wall fencing (n=20), 36 nurseries	DFO provides technical support
Activities	Review ... existing practice of			

	forestry for the scientific...			
	Assist sub-committee to prepare & implement OP			
	Design, promote and implement at least on each in 2 UCOs ...			
	Continue providing materials support to sub-committee ...			
	Support sub-committee to observe ... global events			
Output 2.7	xxx number of groups/communities are prepared for the management of forest fire	Communities sensitized for forest fire (>280 events), Extinguishing material supported to 7 sub-committees	Report on sensitization events with visible proof, Receipt of material support	DFO provides technical support
Activities	Aware communities...forest fire			
	Provide material support...for extinguishing forest fire			
Output 2.8	Income of xxx numbers of groups and HHs increased by xxx% from the wise use of natural resources	Indicators in output 3.1 and 3.2	Focus Group Discussions Project Reports	
Output 2.9	One assessment study conducted for the game/trophy hunting of selected species of wildlife	Indicators in Output 7.2	Population Surveys	hunting practices are regulated and managed sustainably
Output 2.10	The capacity of xxx number of institutions/communities built up for the scientific management of forests, habitats, and biodiversity in ACA	Indicators in output 11.2 and 10.12	Training attendance records and feedback forms from participants	Political stability remains, allowing for uninterrupted implementation of programs and community engagement.

Theme 3	Conservation Economy			
Outcome 3	Opportunities for higher conservation benefits explored and local economy of people enhanced in ACA from ecotourism and green enterprises			
Output 3.1	Strategies & mechanisms for enhanced local economy from the sustainable harvest of environmental resources are in place	1 assessment for harvestable natural resources conducted, 4 SHBP plans of mineral/mines prepared & implemented, 1 gravel site and 1 uranium site protected, Review of salt mine conducted	Meeting minutes, Assessment report on harvestable NR, 4 SHBP plans of minerals/mine, Visible proof of site protection of gravel and uranium (contract papers, etc), Review document for salt mine	DNPWC, Department of Mines, Provincial and Local government fully support
Activities	Develop consensus for wise use of NR, biodiversity...			
	Conduct assessment... of the major harvestable NRs...			
	Assist CAMCs for...preparation of SHBP ...			
	Safeguard Uranium site for future use			
	Review status of salt mine and explore...			
Output 3.2	Income of entrepreneurs is enhanced from promotion of green enterprises	4 commercial plans for cash crop prepared, 4 sites leased for extension of cash crop, 1 NTFPs based enterprise developed from private engagement, Supported for 1 essential oil process unit, 15 tea nurseries, 1 Lokta refinery and 1 cold storage	4 plans of cash crops, Lease agreement and contract papers, Government certificate for NTFP enterprise + contract paper with private entity, Progress & monitoring report with visible proof of structures and coverage	Line agencies and local governments collaborate fully
Activities	Devise mechanism for sustainable production/marketing...			
	Prepare Commercial Plan of one cash crop in UCO...			
	Facilitate the process of leasing government land...			
	Provide support to farmers...			
	Support communities to			

	implement NTFP Sustainable...			
Output 3.3	The economy of small conservation farmers is improved by the conservation of farmland	Small farmers supported to protect farmland at 20 sites, and 16 groups for tunnel farming, >25,000 farmers supported technically and financially for on-farm activities, 250,000 fodder saplings planted	Progress/monitoring reports+ visible proof, Contract papers with farmers/groups, Production/sale report/income matrix, Plantation record	Local government and line agencies collaborate
Activities	Provide materials support...for the protection of farmland			
	Provide support ...technology inputs in vegetable...			
	Plantation of at least 10 fodder saplings...			
Output 3.4	The economy of small conservation farmers is improved by plan-based livestock management and practices	1 Rangeland Management Plan prepared and implemented in 3 places, at least 300 HHs supported for bee, goat, and cattle farming, Livestock gene improvement benefitted to >5000 HHs at 13 sites, farmers planted at least 100,000 fodder saplings planted	Progress/monitoring report + visible proof, Contract papers with farmers/groups, Production/sale report/income matrix, Plantation record	Local Government and line agencies collaborate
Activities	Strengthen the capacities of farmers to prepare and implement the Rangeland Management Plan in Manang			
	Support conservation farmers for gene improvement...			
	Support small and resource-poor farmers for improvement...sheds			
	Plantation of 20 fodder saplings to each beneficiary HHs to plant and nurture these to maturity			

Output 3.5	Livelihoods of landless/socially deprived communities is improved from their increased participation in conservation actions	Capacity strengthened to deprived/landless communities MEC plan for 14 groups, income of 200 HHs increased by xxx%	14 MEC Plans with monitoring indicators, signed contract paper with 14 groups for MEC implementation, Income matrix of HHs, Monitoring report	Line agencies and local government fully collaborates
Activities	Explore ways/means to consolidate interests of landless...			
	Strengthen capacities of ... MEC Plans...			
	Provide support to ...implement MEC plan...			
Output 3.6	Community managed plan-based modern bakery production unit is in operation for quality products consumable to the foreign visitors	Market and capacity assessment conducted and plan for bakery enterprise, 1 modern bakery enterprise supported for operation	Assessment report, 1 business plan, Production/sale matrix	
Activities	Assist ... for the assessment of bakery enterprises...			
	Assist...to prepare business plan for the bakery ...			
Output 3.7	xxx number of HHs/comities are supported to implement LAPA to overcome stresses due to climate change	Indicators in output 6.1-6.3	Attendance records from community meetings and training sessions	Stable Socio-Political Environment:
Output 3.8	The capacity of communities is built up for different green & ecotourism businesses for the socio-ecological prosperity of ACA	Indicators in output 10.7.1-10.7.9	Pre- and post-training evaluations	
Outcome 4	Infrastructure for community development & promotion of ecotourism are supported for enhanced ecotourism to contribute to socio-ecological prosperity			
Output 4.1	Plan-based intervention for ecotourism with linkage to PES	Integrated ecotourism management plan prepared and implemented	7 integrated ecotourism plans, Reports of 5 sensitization events, Monitoring/progress reports	Local government and tourism entities fully cooperate
Activities	Explore and identify sector-wise and periodical priority...			

	Support ... Integrated Ecotourism Plan ...			
	Encourage tourism operators to use local products...			
Output 4.2	Alternative opportunities are explored to increase the number of stay periods of native/non-native visitors in the ACA	A joint market plan developed, a Study conducted on alternative trails, Package for pilgrimage tourism was developed,	Plan and package, Study report on new trekking trails, Progress/monitoring report on implementation of plan & package	Local government, Departments, the private sector, and stakeholders like Nepal Tourism Board, TAAN, HAN, and NATTA cooperate
Activities	Development of functional linkage among ...			
	Prepare joint market plan in coherence with ...			
	Conduct promotional activities including ...			
	Conduct research to open new alternatives...			
	Diversify at least One Product One Service ...			
	Develop and implement package for ...			
Output 4.3	Infrastructure in the new alternative trekking trails is developed for the promotion of ecotourism	10 alternative trekking trails developed, Codes on hotel/lodges updated/practiced, 16 trails improved for horse riding, 1 trail promoted for ethnic brand	Progress reports and visible proof like minutes, photos & case studies on trial, Approval copies of codes	Local government, Departments, the private sector, and stakeholders like Nepal Tourism Board, TAAN, HAN, and NATTA cooperate
Activities	Coordinate government, private, and corporate...			
	Facilitate ...to bring new alternative trekking route...			
	Introduce codes for the operation of ... hotels/lodges...			
	Improve trail for horse-ride			
	Promote trekking trails with some			

	ethnic brands...			
Output 4.4	Maintenance of old infrastructure enhanced marketing of local niche products	7 infrastructures renovated/maintained, HR for renovation/maintenance developed	Progress & monitoring report	Directorates, line agencies and local governments fully collaborate
Activities	Provide direct support to ...renovate/maintain old...			
	Build skilled human resources for...			
Output 4.5	Structures & facilities for ecotourism information, interpretation, and dissemination are improved	7 visitor centers updated with improved auditorium facilities, 7 buildings constructed in Manang and Bhujung, signage/location board fixed at 58 locations, Promotional events for ecotourism organized	Progress & monitoring report with visible proof for auditoriums, visitors' records, websites/documentaries/brochure/ for promotional activities	Local government, private sector and stakeholders like Nepal Tourism Board, TAAN, HAN, and NATTA cooperate
Activities	Upgrade visitor information center ...			
	Support tourism committee for adequate signage...			
	Explore ways and means to increase... visitors...			
Output 4.6	The number of hotel/lodges/rest houses is increased with set facilities & services	Codes for hotel/lodges reviewed, 5 no. of hotels increased with accommodation facilities in remote areas like Thorang La, 50 HHs supported for homestay	Revised codes for hotels/lodges, Signed contracts with hotels/lodges for their services and HHs with homestay facilities, Visible proof like photos, minutes, and case studies	Local government, private sector, and stakeholders like Nepal Tourism Board, TAAN, HAN, and NATTA cooperate
Activities	Facilitate tourism committee to let hotel/lodges...			
	Strengthen capacities of tourism committee...			
	Facilitate tourism committee for leasing...land...			

	Provide ... equipment & materials...homestay...			
Output 4.7	Rescue and health safety measures are in place for trekkers in the ACA	1 rescue center in operation, 70 signage fixed for rescue/safety measures	Minutes and agreement paper for rescue center, Visible proof of structure and visitors' treatment record, Visible proof of signage	Local government, private sector, and stakeholders like Nepal Tourism Board, TAAN, HAN, and NATTA cooperate
	Establishment of strong coordinate mechanism...			
	Update signage about precaution/safety...			
	Establish a rescue center at Thorang La/Phedi...			
Output 4.8	Capacities of hotels/lodges/tea shop operators is enhanced for quality ecotourism services	Indicators in 10.4.1-10.4.8	Customer Satisfaction Scores, Revenue Growth, Tourism Statistics	
Output 4.9	The energy plan of ACA is developed	The integrated energy plan of ACA developed	Meeting minutes, 1 Energy Plan	Departments, AEPC and Local government fully cooperate
Activities	Coordinate with government, AEPC & others...			
	Prepare Integrated Energy Plan of ACA			
Output 4.10	Access to communities/HHs for energy-efficient devices increased which reduced the use of fuel-wood	20 kerosene/LPG depots supported, over 400 HHs supported for energy-efficient devices	Signed contract papers, Visible proof	AEPC and Local government fully cooperate
Activities	Provide support to...continue services LPG depots			
	Provide support to ... energy efficient devices...			
Output 4.11	Access of communities/HHs enhanced for the use of non-convention sources of energy	Micro-hydro at 7 sites, hydropower at 1 place, and solar power at 12 sites supported	Contract papers, Scheme, and visible proof	AEPC and Local government fully cooperate
Activities	Support communities... micro hydro/hydropower...			
	Support for the hydropower development in Manang with the provision of PES			

	Encourage communities to install solar power.....			
Output 4.12	Poor/disadvantaged communities have technology support to mainstream them in conservation	Support provided to 15 grinding/water mills, >400 HH for Solarium bathroom, and >5500 HH for electrification	Signed contract papers, Visible proof such as photos, minutes, and case study	AEPC and Local government fully cooperate
Activities	Continue support ...for grinding/water mill			
	Provide support...for...Solarium bathroom			
	Support for the intensive electrification...			
Output 4.13	Research report on the application of wind energy in ACA is in place	Indicators in Outcome 7.4.1	Technical reports from feasibility studies	support from local and national government for the installation and operation of wind energy projects
Output 4.14	Human resources for the repair/maintenance or energy devices/technology are in place	Indicators in outcome 10.6.1	community repair workshops	Local communities are willing to invest time and resources in learning and participating in repair and maintenance activities.
Output 4.15	Communities and schools are supported for improved infrastructures, and bridges are constructed in view of ecotourism	Supported to 2 community & 87 CAMCs building, 16 wooden bridge and 6 culvert constructed, Material support provided to 10 buildings and compound walls at 11 places	Signed contract papers, Visible proof such as photos, minutes, and case study	Local government and line agencies collaborate
Activities	Provide support ...CAMCs community buildings...			
	Provide material/construction materials ... schools			
	Develop/rehabilitate the wooden & suspension bridges...			
Output 4.16	Farmer-managed irrigation schemes are improved for	over 100 farmer-managed irrigation schemes support	Signed contract papers, Visible proof such as photos, minutes, and	Local government and line agencies collaborate

	enhanced agriculture productivity		case study	
Activities	Develop and rehabilitate farmer-managed irrigation structures and facilities			
Output 4.17	Development support to improve existing trail and road	Over 40 trails improved following codes	Office record, progress report, annual reports	Local government and line agencies collaborate
Activities	Coordinate government and line agencies for...			
	Provide Support for the construction/maintenance...			
Output 4.18	RM level developmental activities			
Activities	Construction of Roads (both Primary and Secondary)	EIA/IEE/BES/study report	RM Records	Local Government and line agencies utilizing its allocated budget against their 5-year plan.
	Irrigation		RM Records	
	Drinking Water		RM Records	
	Bridge Construction		RM Records	
	Electrification		RM Records	
	New Trekking Trail Construction		RM Records	
	Hotel Construction		RM Records	
	River bed Materials		RM Records	
	Telecommunication tower		RM Records	
Outcome 5	Key cultural heritage and practices are restored, conserved, and linked to promote cultural tourism in ACA			
Output 5.1	The cultural mapping of ACA and research report on the conservation of the Saligram are in place	Indicators in 7.6	Documentation Reports and Attendance sheets from workshops and community meetings	Support from Local Authorities
Output 5.2	Culture codes are adopted and xxx cultural and religious sites are renovation given culture conservation and ecotourism	1 Culture Conservation plan and culture conservation Code prepared & implemented, Communities supported for >175 culture conservation initiatives, at least	1 Culture Conservation Plan with codes, Progress & monitoring reports with visible proof	Tourism and archeological departments and local government support fully

Activities	Prepare Culture Conservation Plan of key...	Plan	
	Develop culture conservation codes for...		
	Provide support to the communities to continue...		
Output 5.3	Community-managed cultural museums are upgraded and the 'Live Saligram Museum' was established to enhance the flow of religious pilgrimage	Space & utilities in existing xxx cultural museum upgraded, 1 'Live Saligram Museum supported for operation	Progress report with visible structural proof, Annual records on visitor's flow
Activities	Support communities to upgrade space, utilities, and services in existing eco-museum with cultural items		
	Provide support to ... 'Live Saligram Museum'...		
	Building the capacity ... traditional wall art...railings		
Output 5.4	Youth's initiative of conservation of cultural traditions, festivals & lifestyles	xxx cultural groups/clubs supported for >800 cultural events, Honey hunting culture supported at 2 places	Signed contract papers, Progress/monitoring report with visible proof
Activities	Provide incentives ...cultural groups & clubs...		
	Provide incentives ... traditional worship practices...		
	Conservation of traditional technology associated with culture such as Dhiki & Janto		
	Provide support for the conservation of honey hunting culture in Ghandruk and Lwang		
	Provide support for the conservation of Shradhasthal		

Output 5.5	Promotional materials for cultural/religious visitors	xxx documentary & xxx brochure prepared/disseminated; Communities supported for 24 sanitation campaign	2 Documentary and xxx brochure, Progress/monitoring report with visible proof	
Activities	Update and develop documentary...			
	Publish and disseminate brochure ...			
	Support... cleaning/sanitation campaign...			
Output 5.6	Human resources/skills for value addition and cultural practices are in place in the ACA	Indicators in 10.8		
Theme 4	Climate Actions			
Outcome 6	The resilience of socio-ecological complexes to climate change and disaster risk is enhanced			
Output 6.1	Ecological vulnerabilities and adaptive capabilities of the communities to overcome the stresses of climate change are assessed	Assessment study on vulnerabilities/capacities conducted, UCO level LAPA prepared/implemented	1 report on vulnerability & adaptive capability, 7 UCO level LAPA, Progress/monitoring report with visible proof for LAPA of UCOs	Local government & line agencies fully support
Activities	Assist communities ...assess... env ⁿ . vulnerabilities...			
	Assist communities/ groups to preparation/implementation ...			
	Assist local government/line agencies ...environmental guidelines...			
Output 6.2	LAPA documents are jointly implemented with the local government	Supported to preparation of 17 LAPA for the local government, collaboration implemented LAPA in all Rural Municipality	Signed contract for the collaboration with local government, Progress/monitoring report	Local government collaborates for LAPA preparation & implementation
Activities	Assist local government to prepare LAPA in areas...			
	Provide matching support ... local			

	government ...			
Output 6.3	Public land and habitats exposed to landslides/soil erosion are protected from increased risk of climate disasters	A map of vulnerable landslides sites prepared, Communities supported for the bamboo/rattan plantation in 130 gullies, Groups supported for river bank stabilization at 75 vulnerable sites, Materials supported to the communities for the bioengineering of landslide at 245 sites	1 map for vulnerable landslide areas, signed groups' contract papers, Plantation record, Progresses/monitoring report with visible proof of plantation, bioengineering & riverbank stabilization tasks	Local government collaborates for LAPA preparation & implementation
Activities	Assist committee/sub-committee to map...			
	Provide support ...plantation of bamboo/rattans in gullies			
	Provide support ... bio-engineering of ... watershed...			
Output 6.4	Capacities of communities for climate adaptation is enhanced	Indicators in output 10.10	Training Attendance Records	Stable Socio-Political Environment
Theme 5	Research, Education & Knowledge management			
Outcome 7	Researches in diverse socio-ecological issues are convened, documented, and disseminated			
Output 7.1	A research mechanism is devised and practiced to explore information on the socioeconomics and biodiversity of ACA	Research board commissioned, 100 students & 10 professionals supported for biodiversity research, 4 types of research on the socio-economy update, wetlands inventory, indigenous knowledge, etc. conducted, Software for research documentation & dissemination developed	Minute, Guideline/protocol for research board, Research reports (108), Software, Progress/monitoring report	Adequate methods for assessing biodiversity (e.g., field surveys, remote sensing) will yield reliable data under various environmental conditions. Collaboration with local stakeholders and communities will be effective, leading to meaningful engagement and data collection.
Activities	Create a high-level research committee/board...			
	Diversify research Themes			

	including unexplored ...			
	Support scholars to conduct long-term research...			
	Continue support for graduate students ...			
	Update biodiversity and socio-economic database...			
	Conduct wetlands inventory of ACA ...			
	Document traditional and indigenous ...			
	Develop/apply software for the proper ...			
Output 7.2	Status of threatened, endangered & government-protected species and assessment of game/trophy of selected wildlife species in ACA are researched, documented & disseminated	1 event for wildlife census events conducted, 1 study on game/trophy hunting conducted	1 census report, 1 study report on trophy/game hunting	Cooperation from GoN, MoFSC, DNPWC, local people
Activities	Conduct wildlife census with a focus...			
	Conduct a study on game & trophy hunting...			
Output 7.3	Socio-economics, new opportunities, and value addition to enhance ecotourism in ACA are explored for research and explored for interventions	5 studies on impacts/opportunities/new trail/destination on ecotourism convened	5 research reports	
	Conduct impact assessment of ecotourism on...			
	Conduct a study to explore opportunities...			
	Conduct a study to explore new tourism destinations...			

	Explore potential tourist routes across the south ...			
	Conduct market research ...on tourists' perception...			
Output 7.4	An action plan for wind energy is in place and xxx no of HHs involved in conservation benefitted	1 action plan for wind energy prepared and implemented in one place	1 action plan, Contracts, and approval documents with a private investor, Visible proof	Departments, Line agencies, and Local government fully collaborate
Activities	Prepare and implement ... plan for wind energy...			
Output 7.5	The environmental and socio-economic effectiveness of ACA and opportunities from NTFPs on the socio-ecological prosperity are assessed	1 study on economic effectiveness, 1 on biological and ethnobotanical study, and 1 feasibility for Lokta conducted	3 study reports	Assumes that there is a consistent market demand for NTFPs and agroforestry products, allowing communities to benefit economically.
Activities	Conduct economic effectiveness of ACA			
	Conduct a detailed biological/ethnobotanical survey...			
	Conduct a feasibility study for Lokta...			
Output 7.6	The cultural mapping of ACA and research report on the conservation of the Saligram are in place	Cultural mapping was conducted; a Study in Saligram conducted	2 studies reports	No major external factors (political, social) disrupt the mapping process.
Activities	Conduct cultural mapping of the ACA...			
	Conduct a study on ...Saligram			
Outcome 8	Diverse groups of stakeholders are aware of conservation ethos and put it into practice			
Output 8.1	Conservation awareness packages for all tiers of audiences are prepared and in use	Two packages for conservation awareness were prepared, 12 workshops for government personnel were organized, and 7 information centers for key biodiversity	Training packages (2), 12 workshop events & reports with visible proof, Visible proof of information centers & log book for visitors	Communities & groups fully support displaying their information about culture, practices & biodiversity

		in UCO were established and in operation.		
Activities	Prepare conservation education package for ...			
	Impart information ... through events/workshops...			
	Establish biodiversity visitor center in all UCOs ...			
	Provide training ...interpretation ...visitors centers ...			
Output 8.2	Students/youth and their groups are prepared to deliver more tangible tasks of nature and culture conservation	Youth supported for xxx of green clubs and creation of youth network for plan-based actions,	1 network of youth with plan and their legal documents, Progress/monitoring report with visible proof of each action	Local government and line agencies support
Activities	Assist youth for the formation new green clubs ...			
	Assist sub-committee to form a network ...			
	Assist network to implement their plan ...			
	Set mechanism to reward best performers ...			
Output 8.3	Infrastructure support improved conservation education in schools to enhance youth participation in conservation of nature and culture	Schools supported for model facilities for libraries, science laboratories and sports linked with conservation activities	Contract documents with 7 schools, Progress/monitoring report with visible proof of libraries, laboratories and sport supports	Local government and line agencies support
Activities	Provide construction/materials support to 7 schools ...			
	Provide support to the schools ... sport/play			
	Continue conservation education in schools ...			
Output 8.4	Capacity of students/youth is enhanced for new Aps and Aps	Capacities of schools for new Aps to monitor biodiversity	Signed contracts with 7 schools for computer and internet	Local government and line agencies support

	based biodiversity monitoring in place	strengthened, Students observed major global environmental events	libraries, Reports of 687 events at different schools, Visible proof of activities	
Activities	Assist schools to upgrade ...7 schools with ...			
	Enhance the skills of teachers/students... Mobile Aps ...			
	Continue support to... global environmental events ...			
Output 8.5	Conservation learning is documented & disseminated to the wider audience in & outside Nepal	Case studies for success documentation/dissemination conducted, Conservation documentaries updated, one central library in ACA established & in operation	Report on 5 case studies, Archive of 3 updated documentaries, Visible proof of central library and log book of readers	Local government and line agencies support
Activities	Conduct case studies to explore different ...			
	Update conservation documentaries for...			
	Establish a central library in ACA ...			
Output 8.6	Capacity of communities/groups is built up to undertake conservation & extension tasks in the ACA	Indicators in Output 10.12	Enhance Community Engagement/ Formation or strengthening of local groups and cooperatives focused on conservation and resource management.	Assumes that the interest in conservation initiatives remains strong among community members over time, leading to ongoing participation.
Theme 6 Gender Equity and Social Inclusion				
Outcome 9 Mainstreaming of GESI at all levels and processes of conservation area management				
Output 9.1	Involvement of Women/marginalized & socially excluded people are ensured in decision-making position of local institution	xxx women in the key decision-making process in xxx local institutions	Minutes of the General assembly of the local institution	Line agencies and local government fully collaborate
Activities	Strengthening engagement and roles of women...			

	Strengthening meaningful participation of women...			
	Facilitate... participation of women, marginalized...			
Output 9.2	Women groups are empowered for organization management and their network is in operation	xxx women groups trained (89 training events) for organizational management, 22 groups supported for building & furniture and 1 network of women groups formed	Training report, signed contract, Progress/monitoring report with visible proof	Line agencies and local government fully collaborate
Activities	Provide technical and financial support...			
	Provide support to community building and materials...			
	Assist women groups... network ...			
Output 9.3	Women including socially excluded groups are empowered for their economic options from the operation of conservation-related businesses	1 endowment fund of Rs 2 million was created, 22 women cooperatives supported for cooperative management, 70 groups, 13 Dalit groups & 996 disadvantaged HHs supported for implementing IGA	Protocol/guidelines and signed contract for endowment fund, Group to ACA & group to HHs contract for IGA, Income matrix, Progress/monitoring report with visible proof	Line agencies and local government fully collaborate
Activities	Assist women's group to create endowment fund...			
	Provide material and other supports...			
	Strengthen the capacity of ... their entrepreneurial activities...			
	Assist socially marginalized Dalit groups...			
Output 9.4	Awareness of women /socially marginalized groups is	40 study tour organized for xxx women members, 500	Report on observation tour, Award certificate for stipend	Line agencies and local government fully collaborate

	enhanced for the conservation of nature, culture, and heritage in the ACA	girls including marginalized one stipend for formal study		
Activities	Enhance the capacity of women groups ...study tours			
	Continue/upscale scholarship...marginalized groups			
	Assist women groups for ... conservation awareness...			
Output 9.5	Access of women groups to health facilities/services is improved for maternity/child care to reciprocate their participation in the conservation of nature and culture	xxx mother sensitized through xxx events and supported for mothers' safety, child care, birth control, and transmissible diseases,	Event reports, Contract papers, Progress/monitoring reports with visible proof	Line agencies and local government fully collaborate
Activities	Support women groups for ... mothers from ...HIV/AIDs			
	Strengthen women groups...family planning/birth control			
	Continue support ... childcare center...			
Output 9.6	Capacities of women/socially marginalized groups are enhanced for their meaningful participation in the conservation of nature & culture in the ACA	Indicators in 10.9	Surveys and Interviews Training Attendance Records	No Significant Social Disruption
Theme 7	Governance			
Outcomes 10	The governing capacity of local institutions & people is enhanced to leverage services on the conservation of natural resources and biodiversity nature, conservation of local culture and heritage, and promotion of tourism for the socio-ecological prosperity in ACA			
Output 10.1	the capacity of local institutions is enhanced for good conservation governance	Administrative capacities of 57 CAMCs, 7 UCOs & xxx CCs enhanced from materials/equipment support, Coordination mechanism	OPs of local institutions signed contracts and receipts of materials/equipment, 2 coordination mechanisms (inter-institutional+ government/private	Local government and line agencies support

		among inter-institution, government and private sector developed & practiced, Local institution trained for good governance, plan-based operation, and organizational management & proposal development, monitoring mechanism and a plan developed/practiced	sectors), Training reports (8), 3 proposal-based funding papers, 1 monitoring plan of CAMCs, Progress/monitoring report with visible proof of all actions	
Activities	Provide materials and equipment support ...			
	Establish effective inter-institutional coordination...			
	Consolidate coordination mechanism ... government ...			
	Build capacity of CAMC, ... training/workshop ...			
	Provide support to CAMCs, UCOs & CCs ...			
	Update facilities & practices for effective monitoring...			
Output 10.2	The capacity of xxx number of institutions/communities built up for the scientific management of forests, habitats, and biodiversity in ACA	Forest sub-committee prepared xxx OPs, capacity enhanced from 498 tannings (45 for habitat/ecosystem mgmt., 50 study tours, 16 leadership, 4 legal proficiency, 35 for scientific forest management. and 346 on administrative, financial/auditing, and 7 antipoaching events	57 Ops, 498 training reports, Progress/monitoring reports with visible proof	DNPWC and DoF, line agencies, and local government support fully
Activities	Assist forest sub-committee to prepare operation plans ...			
	Continue extension... awareness			

	... habitat/ecosystems			
	Assists CAMCs/forest sub-committee ... tour...			
	Organize training ... leadership/decision-making...			
	Enhance capacities ... legal proficiency ...			
	Enhance capacities ... for the silviculture/scientific ...			
	Enhance administrative, financial, and auditing ...			
	Enhance capacity ... anti-poaching practices ...			
Output 10.3	Capacities of groups/communities are enhanced for the management of forest fire	Over 5000 HH were sensitized through 57 events for controlling forest fire	Reports	
Activities	Sensitize & aware communities.			
Output 10.4	Capacities of hotels/lodges/tea shop operators are enhanced for quality ecotourism services	200 training organized for building capacity of hotels/lodges and HR development for ecotourism (7 training for planning, 7 for youth in culture, 104 for products/ services in hotels/lodges, 36 for hospitality, 14 for trekking cook, 11 for language proficiency, 10 for study tour, and one mechanism developed saving/credit for tourism)	Training reports (200), Progress/monitoring report with visible proof	Local government and tourism institutions fully cooperate
Activities	Enhance capacities of ... to integrate &...			
	Mainstream youth force ...			
	Assist the TMC to review ...			

	menu based ...			
	Continue enhancing ...housekeeping/hospitality ...			
	Continue support to TMC ... trekking cook training ...			
	Continue proficiency language training ...			
	Assist TMC ... mechanism, so that financial assistance ...			
	Organize exposure visits to ...			
Output 10.5	Human resources/skills for the repair/maintenance of infrastructures are in place	Skills of 300 persons enhanced through training in plumbing, masonry, house wiring, and carpenter	Training reports (60), Progress & monitoring report with visible proof	Local government support
Activities	Assist committees/sub-committees for vocational skills...			
Output 10.6	Human resources for the repair/maintenance of energy devices/technology are in place	Communities supported for maintenance & installation of bio-briquettes (80 people trained), solar devices (14 people trained, installation 500 HHs), and installation of cooking stoves (4186 HHs)	Training reports (40), Progress/monitoring reports with visible proof	Local government support
Activities	Provide support to ...training ...bio-briquette ...			
	Assist sub-committee to ...repair/maintenance of solar devices			
Output 10.7	Capacity of communities is built up for different green & ecotourism businesses for the socio-ecological prosperity in ACA	Code for forest based-enterprises developed and stock survey conducted, Groups supported for 7 forest-based enterprises, 2000 conservation farmers sensitized (241 events) for	1 Code/guideline document on green enterprises, 1 Stock survey report, Training reports (405), Groups'/individual contract papers for green enterprises & agro based IGAs, bio fertilizer production unit and IPM/intensive farming,	Local government and line agencies support

		<p>IPM & kitchen garden for vegetable, crops, fruits etc production, Materials supported to >200 HHs for nurseries, crop seed, tools, fruit seedling etc, 50 training for livestock and fishery + 150 HHs supported for farming, Communities trained (88 events) and supported for agro-based activities at 70 villages, 26 training for bio fertilizers and production of bio fertilizers in 3 UCOS, Supported for 1 piloting for IPM/intensive agriculture, Materials/equipment supported to 200 HHs of Dalit</p>	<p>Production/sale matrix of each support, Progress/monitoring report with visible proof</p>
Activities	Assist ...to device a mechanism with codes ...		
	Enhance capacity...for ... vegetables, crop, fruits ...		
	Continue providing materials and tools ...		
	Continue enhancing capacities ...livestock & fishery ...		
	Enhance the capacity of small farmers for agro-based ...		
	Enhance the capacity of the farmers for ...resource survey ...		
	Enhance capacity ... fertilizers & pesticides...		
	Enhance the capacity of ... piloting intensive farming/IPM		

	...			
	Provide Support to the socially marginalized Dalit ...			
	Continue support for the veterinary technicians for ...			
Output 10.8	Human resources/skills for value addition and cultural practices are in place in the ACA	70 persons trained/supported for the renovation of cultural heritage & traditional places, 1 live museum for Saligram supported for operation,	Training reports, Signed contract for renovation& maintenance support for cultural heritages/etc, 1Visible proof of a live museum for Saligram with log book for visitors, Progress/monitoring report with visible proof	Line agencies, local government and religious leaders fully cooperate
Activities	Assist sub-committee for ...cultural heritage			
	Assist sub-committee ... Live Museum of the Saligram			
	Continue providing ... repair/maintenance ...			
Output 10.9	Capacities of women/socially marginalized groups are enhanced for their meaningful participation in the conservation of nature & culture in the ACA	Training to 145 women/marginalized groups for organizational management conducted, Skill enhanced from training (200 events) for 700 women for diverse income activities,	Training reports of each event, Progress/monitoring reports with visible proof	Local government and line agencies fully cooperate
Activities	Assist in organizing training ...organizational growth...			
	Assist groups/communities to diversify their IGA ...			
Output 10.10	Capacities of communities for climate adaptation are enhanced	The mechanism developed for fund investment of climate change prepared/practiced, CMC, UCOs & CCs, communities, and schools' teachers trained (45 events) for climate	1 protocol for fund investment on CC, Training reports (45), Progress/monitoring report with visible proof	Local government and line agencies fully cooperate

		integration in their plans/curriculum etc		
Activities	Build the capacity of CAMCs, UCOs, and CCs			
	Train communities ... planning framework/actions ...			
	Assist communities, local institutions... mechanisms...			
	Sensitize schools ... incorporate climate ..curriculum			
Output 10.11	Human resources/skills for repair/maintenance of health/sanitation work are in place at the local level	xxx supported health, nutrition, maternity, child care, sanitation etc., Sub-committee supported health facilities and study for staff-nursing	Training reports 42, Signed contracts with groups, School record for nursing, Progress/monitoring report with visible proof	Line agencies and local government fully collaborate
Activities	Continue support ...for the First Aid...			
	Continue support to women groups for health/nutrition...			
	Assist communities ...nursing			
Output 10.12	The capacity of communities/groups is built up to undertake conservation & extension tasks in the ACA	xxx teachers/students exposed for conservation learning from 10 study tours, 140 girls of marginalized groups supported for schooling	Training reports, School enrollment certificates, Progress/monitoring reports with visible proof	Line agencies and local government fully collaborate
Activities	Assist schools with... observation/learning tour			
	Build the capacity ...teachers for plan-based ...			
	Support... scholarship ... socially excluded ...			
Outcome 11	Empowered management committees, that reflect the success of the past and align with the new federal structure, are functioning			
Outputs 11.1	Policy and institutional structure	Two policy feedback support	Minute, official documents,	Cooperation from GoN,

	are reformed at regional and unit levels for the conservation management of ACA	to the government, Environmental monitoring	Monitoring reports	MoFSC, Departments local governments, and political parties
Activities	Coordinate with the government to set up...			
	Provide feedback to the government for policy...			
	Identify people's needs, perceptions, and demands on...			
	NTNC to continue technical backstopping...			
	Provide support for environmental monitoring			
Outputs 11.2	Local institutions are independently capable of administering conservation area	xxx mm HR support for ACA HQ, 7 UCOs & 57 CAMCs supported for planning, administration & organizational management	Contract papers, Planning documents, records, Annual/progress report	
Activities	Continue administrative support to the ACA HQ & UCOs			
	Strengthen organizational management capacities ...			
	Strengthen technical capacities.			
	Provide support for the formation of CAMC and its sub-			
Output 11.3	The sustainable financial mechanism for ACA is developed and implemented	One Program Development Unit in ACA HQ, PES mechanism developed & practiced, Visitor's entry fee revised for increased amount, at least 4 proposals for larger funding received grant, at least 2 private sector investments in green enterprises	1 Program Development Unit in ACA, officially signed formal document of PES mechanism & agreement papers of stakeholders, government approval document for revision of entry fee, MoU signed and visible proof of finance for proposal hunt funds	Central, provincial, and local governments cooperate and the private sector's positive responses are available
Activities	Develop a system for regular			

	revision fee...			
	Facilitate processes to integrate PES mechanism in all...			
	Coordinate with government to harmonize budget ...			
	Continuously explore the potential for availing new financial...			
	Establish Program Development Unit in ACA ...			
	Promote private sector engagement in green enterprise			
Output 11.4	Building the capacity of communities for better health and sanitation	Indicators in 10.11		
Theme 8	Health & Sanitation			
Outcome 12	Community access to the facilities for health & sanitation enhanced at all levels as an incentive for nature conservation in ACA			
Output 12.1	Infrastructure & facilities for basic sanitation/basic hygiene are improved	Mechanism for One House One Tap' developed & in operation, Headwater at 24 sites conserved, Water supply coverage increased at 160 sites benefitting xxx HHs, 3 R principle adopted by at least 10 groups	1 Mechanism for tap water supply with guidelines, Signed contracts with groups for water heads conservation, new supply line, and 3 R	Line agencies and local government fully collaborate
Activities	Backstop the CAMCs for ... mechanism...			
	Provide support ...conservation/maintenance of water heads...			
	Provide support to ...coverage of drinking water...			
	Provide support to the communities for the sanitary toilets and management of common bathroom			
	Assist communities to			

	consolidating solid waste management following the '3 R' principles as Refuse, Reuse, and Recycle			
Output 12.2	General health care facilities/services for communities/visitors in geographically difficult areas of ACA are improved	At least 55 Awareness camps for the use of health post and HIV/AIDS conducted, Access to xxx HHs ensured for communities and xxx visitors	Event/camp reports, Health records, Progress/monitoring reports with visible proof	Line agencies and local government fully collaborate
Activities	Support communities... health awareness camps...			
	Continue support.... health services...			
Output 12.3	Health insurance mechanism is adopted & practiced as long-term motivation to the communities in the conservation of nature & culture in ACA	Communities sensitized 7 events for health insurance, Access to ultra-poor 700 HHs ensured for insurance	Report of sensitization events, Insurance card and insurance documents for HHs	Local government provides support
Activities	Sensitize the communities to access government scheme of basic health care through the health insurance mechanism			
	Provide subsidy to the ultra-poor communities to pay premiums for the health insurance			
Output 12.4	Human resources/skills for repair/maintenance of health/sanitation work are in place at the local level	Indicators in 10.11	Maintenance Reports Documentation of Repairs Training Attendance	Effective Collaboration with Authorities

REFERENCE

- ACAP/NTNC (1997): Management Plan of Annapurna Conservation Area Project. National Trust for Nature Conservation; Lalitpur; Nepal.
- ACAP/NTNC (2009): Management Plan of Annapurna Conservation Area Project. National Trust for Nature Conservation Lalitpur; Nepal.
- Adhikari, G. P. (2013): Governance Capacity for Climate Adaptation in Nepal. *Global Journal of Human Social Science. Geography; Geo-Sciences; Environmental Disaster Management*. Volume 13 Issue 4 Version 1.0 Year 2013. Global Journals Inc. (USA). ISSN: 2249-460x (online) & Print ISSN: 0975-587X.
- Adhikari, M. K. (2000). *Mushrooms of Nepal*. P. U. Printers; Kathmandu; Nepal.
- Amin, R., H. S. Baral, B.R. Lamichhane, L.P. Poudyal, S. Lee, S.R. Jnawali, K.P. Acharya, G.P. Upadhyaya, M.B. Pandey, R. Shrestha, D. Joshi, J. Griffiths, A.P. Khatiwada & N. Subedi (2018). The status of Nepal's mammals. *Journal of Threatened Taxa* 10(3): 11361–11378.
- Annual Progress Report 2014-015 (2071-072): www.kath.gov.np
- Bajracharya; S. B (2011): Tourism Development in Annapurna Conservation Area. In Kruk; E; Kreutzmann; H. And Richter; J. (Eds.) *Proceedings of the Regional Workshop: Integrated Tourism Concepts to Contribute to Sustainable Mountain Development in Nepal*; pp 127–142. Kathmandu: ICIMOD. Tourism Development in Annapurna Conservation Area. www.researchgate.net/publication/282566624_Tourism_Development_in_Annapurna_Conservation_Area.
- Baniya, C. B., Solhøy T. and Vetaas O. R. (2009): Temporal Changes in Species Diversity and Composition in Abandoned Fields in A Trans-Himalayan Landscape; Nepal. *Plant Ecology*; 201:383-399.
- Baral, H. S. and Shah, K. B. (2008): *Wild Mammals of Nepal*. Himalayan Nature. Kathmandu. 2008.
- Baral, N., & Dhungana, A. (2014). Diversifying finance mechanisms for protected areas capitalizing on untapped revenues. *Forest Policy and Economics*, 41, 60–67. <https://doi.org/10.1016/j.forpol.2014.01.002>
- BCN and DNPWC (2017): *The State of Nepal's Birds 2016*. Bird Conservation Nepal (BCN) and Department of National Parks and Wildlife Conservation (DNPWC); Kathmandu.
- Becken, S., Lama, A. K., & Espiner, S. (2013). The cultural context of climate change impacts: Perceptions among community members in the Annapurna Conservation Area, Nepal. *Environmental Development*, 8, 22–37. <https://doi.org/10.1016/j.envdev.2013.05.007>
- Bhattarai, S., Chaudhary R. P., Quave C. L. and Taylor R. S. L. (2010): The Use of Medicinal Plants in the Trans-Himalayan Arid Zone of Mustang District; Nepal. *Journal of Ethnobiology And Ethnomedicine*. 6:14.
- Birds of Nepal: An Official Checklist*, Kathmandu, Nepal.
- Bista, M. (2006): Gymnosperms of Nepal. In: Jha; P. K.; Chaudhary; R. P.; Karmacharya; S. B. and Prasad; V. (eds.). *Environment and Plants: Glimpses of Research in South Asia*. Ecological Society; Kathmandu.
- Budha, P. B. (2012): Review of Freshwater and Terrestrial Molluscan Studies in Nepal: Existing Problems and Future Research Priorities. Paper presented at the Entomological Review Workshop organized by Nepal Agriculture Research Council; Khumaltar from 4-6March; 2012.
- CBS (2012): *National Population Census 2011 NPC*. CBS Kathmandu; Nepal.
- Chapagain, N. R. and Chetri, M. (2006): *Biodiversity Profile of Upper Mustang*. National Trust for Nature Conservation; Annapurna Conservation Area Project; Upper Mustang Biodiversity Conservation Project. Kathmandu; Nepal. IV + 32 pp.

- Chaudhary, Y. (2015): Climate Change Impacts on Water Resources in Annapurna Conservation Area Project. A case study from Sardikhola VDC; Kaski District. Thesis submitted in partial fulfillment of Bachelor in Science Forestry to Tribhuvan University; Institute of Forestry; Hetauda; Nepal.
- Dahal, K. R. (2015). Economic activities associated with extraction of riverbed materials in the Tinau River, Nepal. *International Journal of Economics & Management Sciences*, 4(263). <https://doi.org/10.4172/2162-6359.1000263>
- Dahal, K. R., Sharma, S., & Sharma, C. M. (2012). A Review of Riverbed Extraction and its Effects on Aquatic Environment with Special Reference to Tinau River, Nepal. *Hydro Nepal: Journal of Water, Energy and Environment*, 11, 49–56. <https://doi.org/10.3126/hn.v11i0.7163>
- DeCoursey, M. A. (1994): Healing Forests and Ailing Economies: Non-Timber Forest Products in Nepal. *TRI News* 13; 46–49.
- Department of National Parks and Wildlife Conservation and Bird Conservation Nepal (2022).
- Department of Plant Resources. (2012). PLANTS OF NEPAL: FACT SHEET. In <https://dpr.gov.np>. Retrieved March 15, 2024, from https://dpr.gov.np/wp-content/uploads/2023/08/Plants-of-Nepal-Fact-sheet_2012-1.pdf
- Dhakal, Y., Gaire, N., Aryal, S., Shah, S., Bhandari, S., Kunwar Thapa, U., & Rayamajhi, S. (2016). Treeline Shift in Central Nepal Himalaya and Climate Reconstruction of Past Millennia.
- Dharmaman S. (2016): Climate Change Impacts on Hydrological Regime & Local Livelihood in Kaligandaki River Basin North of Nepal. Proceedings of ISER 36th International Conference; Melbourne; Australia; 1st -2nd October 2016; ISBN: 978-93-86083-34-0.
- DPR (2000): Pteridophytes of Nepal. Bulletin No. 19; Department of Plant Resources (DPR); Kathmandu.
- DPR (2012). Plants of Nepal: Facts Sheet. Government of Nepal. Ministry of Forest and Soil Conservation; Department of Plant Resources (DPR); Thapathali; Kathmandu; Nepal.
- GoN (2016): Protected Area Management Plan Preparation Methodology 2073 (in Nepali). Government of Nepal. Pp. 26.
- Gupta, R. (1997): Diversity of Parasitic Helminth Fauna in Nepal. Research Division; Tribhuvan University; Kirtipur; Kathmandu; Nepal.
- Haruta, T., (2006): ED Moths of Nepal (vol. 1-6). *TINEA*; Japan Heterocerist's Society; Tokyo. 2006.
- ICIMOD and MOEST (2007): Nepal Biodiversity Resource Book: Protected Areas; Ramsar Sites and World Heritage Sites. ICIMOD and Ministry of Environment; Science and Technology (MOEST); Kathmandu in cooperation with UNEP Regional Office for Asia and the Pacific; Bangkok; Thailand.
- Joshi, A. R. and Joshi, D. P. (1991): Endemic Plants of Nepal Himalaya: Conservation Status and Future Direction. *Mountain Environment and Development* 1(2):1-35.
- KC, A. and Thapa, R. B., Thapa, P. (2014): Climate Change and Its Impact on Tourism in the Manaslu Conservation Area; Nepal.; *Tourism Planning and Development*; DoI: 10:1080/21568316.2014.933122. 2014.
- Khatri, D., Nightingale, A. J., Ojha, H., Maskey, G., & 'Tsumpa, P. N. L. (2022). Multi-scale politics in climate change: the mismatch of authority and capability in federalizing Nepal. *Climate Policy*, 22(8), 1084–1096. <https://doi.org/10.1080/14693062.2022.2090891>
- Khatri, K., Jha, B., Gurung, S., & Khadka, U. (2020). Freshwater fish diversity and its conservation status in different water bodies of Nepal. *Nepal Journal of Environmental Science*, 8. <https://doi.org/10.3126/njes.v8i1.34442>
- KMTNC (2000-2002): Two Years Retrospective Report (1998-2000) & (2000-2002); King Mahendra Trust for Nature Conservation Lalitpur; Nepal. 2000.

- KMTNC/ACAP (1994): Annapurna Conservation Area Biodiversity Conservation Data Project: Final report. King Mahendra Trust for Nature Conservation; Annapurna Conservation Area.
- Koju, L., Shrestha, N., Raskoti, BB., Ale, R., Ghimire, NP, and Shrestha, S. (2023). Spatial patterns, underlying drivers and conservation priorities of orchids in the central Himalaya. *Biological Conservation* 283-110121. <https://doi.org/10.1016/j.biocon.2023.110121>.
- Konchar, K., Staver, B., Salick, J., Chapagain, A., Joshi, L., Karki, S., Lo, S., Paudel, A., Subedi, P., & Ghimire, S. K. (2015). Adapting in the Shadow of Annapurna: a climate tipping point. *Journal of Ethnobiology*, 35(3), 449–471. <https://doi.org/10.2993/0278-0771-35.3.449>.
- Lach, J. (2015). A geotouristic valuation of the Marsyangdi Valley in the Annapurna Himal region and its potential for the development of tourist attractions. *Geoturystyka*, 42–43(1), 39. <https://doi.org/10.7494/geotour.2015.42-4339>
- Lama, A. K. (2016): Understanding Institutional Adaptation to Climate Change: Social Resilience and Adaptive Governance Capacities of the Nature Based Tourism Institutions in the Annapurna Conservation Area; Nepal. Würzburg University Press. Würzburger Geographische Arbeiten. Herausgegeben vom Institut für Geographie und Geologie der Universität. Würzburg in Verbindung mit der Geographischen Gesellschaft Würzburg. ISSN: 2194-3656 (online). ISBN: 978-3-95826-035-1.
- LRMP (1986). Land Resources Mapping Project (LRMP), Soil and Geology Report. Kenting Earth Science Canada and Department of Topography. HMG/Nepal. Kathmandu.
- Manandhar, S. (2015): Surface Area Variation of Gangapurna Glacial Lake; Manang and Climatology of Manang District; Nepal. A project report submitted in partial fulfillment of the requirements for the Bachelor's (Honors) Degree in Environmental Science. Department of Environmental Science and Engineering; Kathmandu University; Nepal.
- MoAD. (2014): Statistical Information on Nepalese Agriculture 2013/14. Singa Durbar; Kathmandu Nepal: Ministry of Agriculture and Development; Agri-Business Promotion and Statistics Division.
- MoE (2010). Climate Change Vulnerability Mapping for Nepal; National Adaptation Program of Action (NAPA) to Climate Change. Ministry of Environment Government of Nepal.
- MoE (2010). National Adaptation Program of Action (NAPA). Ministry of Environment; government of Nepal; Kathmandu.
- MoEST (2008). Nepal Thematic Assessment Report: Land Degradation. Nepal Capacity Self-Assessment for Global Environment Management. Ministry of Environment, Science and Technology (MoEST), Government of Nepal.
- MoEST (2008). Solar and Wind Energy Resource Assessment Report in Nepal. Ministry of Environment; Science & Technology; Government of Nepal. July 2008.
- MoFSC (2009). Nepal Fourth National Report to the Convention on Biological Diversity. Ministry of Forest and Soil Conservation; Government of Nepal.
- Nepal, S.K., Kohler T. and Banzhaf B.R. (2002). Great Himalayas: Tourism and the Dynamics of Changes in Nepal. Swiss Foundation for Alpine Research in collaboration with the Centre for Development and Environment; University of Berne; Zurich; 92. 2002.
- NLCDC (2021). *Inventory of Lakes in Nepal (Main Report)*. National Lake Conservation Development Committee (NLCDC)/Ministry of Forests and Environment/Government of Nepal, Kathmandu, Nepal.
- NTNC (2012). Climate Change Impact on Livelihood and Natural Resources of Upper Mustang. National Trust for Nature Conservation Annapurna Conservation Area Project Unit Conservation Office; Lo-Mangthang; Nepal.
- NTNC (2014). Annual Report. National Trust for Nature Conservation.

- NTNC (2016). Fact Sheet National Trust for Nature Conservation Annapurna Conservation Area Project. www.ntnc.org.np.
- PDNA (2015): Nepal Earthquake Post-Disaster Needs Assessment (PDNA) Report. Government of Nepal; National Planning Commission.
- Pokhrel, S., and Sherpa, C. (2018). Analysis of Land Use land Cover in ACA in Gandaki Province, Nepal Using Vegetation Index and LULC dataset. *J. Geographical studies*, 2(2), 87-99. pp 87-99.
- Pokharel, N., Basnet, K., & Paudel, R. (2019). Morphometric Analysis of East Seti Watershed in Gandaki Province, Nepal using GIS.
- Poudel, B. and Joshi, R. (2020). Ecotourism in Annapurna Conservation Area: Potential, Opportunities and Challenges. *Grassroots Journal of Natural Resources*, 3(4): 49-73. Doi: <https://doi.org/10.33002/nr2581.6853.03044>
- Poudel, K., Basnet, K., & Sherchan, B. (2021). Hydrological and Hydraulic modeling for flood Analysis: A case study for Modi catchment. *International Journal of Engineering Research and Technology*, 10(8). <https://doi.org/10.17577/ijertv10is080220>
- Pradhan, N. and Joshi, S. D. (2009): Liverworts And Hornworts of Nepal: A Synopsis. *J. Plant Sci.*; 6:69–75.
- Rajapathi, J., Huettmann, F., Ghale, T. R., & Regmi, G. R. (2020). The Annapurna Conservation Area Project (ACAP): Towards a Success Story in Landscape Feature and Watershed Conservation Management. *Hindu Kush-Himalaya Watersheds Downhill: Landscape Ecology and Conservation Perspectives*, 473–496. https://doi.org/10.1007/978-3-030-36275-1_24
- Prasad DS and Shiba B. (2016): Climate Change and Its Effect on Water Resources: A Case Study in Annapurna Conservation Area Project (Acap). *J Climatol Weather Forecasting* 4:159. doi:10.4172/2332-2594.1000159.
- Prasad, V. (2013): Biodiversity: Algae. In: Jha; P.K.; Neupane; F.P.; Shrestha; M.L. and Khanal; I. P. (eds.). *Biological Diversity and Conservation*. Nepal Academy of Science and Technology; Lalitpur; pp. 97-103. 2013.
- Pyakurel D. & Baniya A. (2011). NTFPs: Impetus for Conservation and Livelihood support in Nepal. A Reference Book on Ecology, Conservation, Product Development and Economic Analysis of Selected NTFPs of Langtang Area in the Sacred Himalayan Landscape. WWF Nepal.
- Rai, T. P., Adhikari, S., & García-Antón, P. (2022). An updated checklist of amphibians and reptiles of Nepal. ResearchGate.
- Rajbanshi, K.G. (2013): Biodiversity and Distribution of Freshwater Fishes of Central Nepal Himalayan Region. Nepal Fisheries Society; Kathmandu.
- Rajbhandari, K. R., Rai S. K. and Bhatt G. D. (2016): Endemic Flowering Pl. 2016.ants of Nepal: An Update. Bulletin of Department of Plant Resources No. 38; pp. 106-144. 2016.
- Ranpal, S. (2009): An Assessment of Status and Antibacterial Properties of *Dactylorhiza hatagiera* in Annapurna Conservation Area. A case study of Papekharka; Lete VDC; Mustang. A Bachelor's Degree thesis submitted to the Institute of Forestry; Tribhuvan University; Pokhara; Nepal.
- Schleich, H. and Kastle, W. (2002): *Amphibians & Reptiles of Nepal*. A. R. G. Gantner Verlag; K. G. Germany.
- Shakya, P., Shrestha, I., Paudel, S. and Shakya, S. (2000): Study on Non-Timber Forest Products in Annapurna Conservation Area (ACA); Nepal.
- Sharma, L. R. (1995): Enumeration of the Lichens of Nepal. In: Biodiversity Profiles Project; Publications No. 14. Department of National Parks and Wildlife Conservation; Kathmandu; Nepal.
- Sherpa, A. R., Ayadi, D.P. and Pradhan, P. (2015): Overview of Climate Change: Impact & Adaptation in Nepal Himalayas; 2015. www.cahc.org.np/images/download/Climate-Change-Report.pdf.

- Shrestha, S., Rai, R., Bhattarai, P., KC, A., & Adhikari, L. (2023). Conservation Finance of Annapurna Conservation Area during COVID-19 Pandemic. *Journal of Tourism & Adventure*, 6, 89-103. <https://doi.org/10.3126/jota.v6i1.58583>
- Shrestha, K. K., Bhandari, P., & Bhattarai, S. (2022). *Plants of Nepal (Gymnosperm and Angiosperms)*. Heritage Publishers & Distributors Pvt. Ltd., Kathmandu.
- Surana, R., Subba, B. R. and Limbu, K. P. (2005): Community Structure of Zooplanktonic Group of Chimdi Lake; Sunsari; Nepal. *Our Nature*; 3:81-82. 2005
- Thapa, V. K. (1997): *An Inventory of Nepal's Insects (vol. 1)*. IUCN-Nepal; Kathmandu.
- Tiruwa, B., Subedi, A., & Gurung, R. K. (2022). Floristic diversity of vascular plants in Annapurna Conservation Area (ACA), Gandaki Province, Nepal. *Journal of Plant Resources*, 20(2), 40–49. <https://doi.org/10.3126/bdpr.v20i2.56973>
- Tiruwa, BL, Subedi, A., & Gurung, RK. (2022). Floristic diversity of Vascular Plants in Annapurna Conservation area, Gandaki Province, Nepal. *Journal of Plant Resources* 20(2), 40-49.
- Tiwari, A., Zhai, F., Jump, A. S., Li, S., & Zhou, Z. (2017). Gradual expansion of moisture-sensitive *Abies spectabilis* forest in the Trans-Himalayan zone of central Nepal associated with climate change. *Dendrochronologia*, 41, 34–43. <https://doi.org/10.1016/j.dendro.2016.01.006>
- Tiwari, R. B. and Chhetry, P. (2009): Diversity of Zooplankton in Betna Wetlands; Belbari; Morang. *Our Nature*; 7:236-237.
- ToR (2016): ToR by NTNC for the Call of Proposal: Developing ACA Management Plan 3rd.
- UNDP/ICIMOD (1998): *Eco-Regional Cooperation for Biodiversity Conservation in the Himalayas*. United Nations Development Program; WWF and with the assistance of ICIMOD.
- UNEP-WCMC (2004): *Species Data (Unpublished)*. World Conservation Monitoring Centre of the United Nations Environment Programme (UNEP-WCMC); Cambridge; England. Available online at: <http://www.unep-wcmc.org>.
- UNEP-WCMC (2005): *Annual Report*. UNEP-WCMC; Cambridge; UK. 2005.
- WWF (2013). *CHITWAN-ANNAPURNA LANDSCAPE A RAPID ASSESSMENT*. WWF Nepal, Hariyo Ban Program Retrieved from https://wwfasia.awsassets.panda.org/downloads/chal_rapid_assessment.pdf
- WWF (2018). *Threats and Vulnerabilities Assessment of Annapurna Conservation Area*. Kathmandu, Nepal: WWF Nepal. Retrieved from https://wwfasia.awsassets.panda.org/downloads/threat_and_vulnerability_assessment_of_aca.pdf.
- WWF and ICIMOD (2001): *Eco-Region Based Conservation in the Eastern Himalaya; Identifying Important Area for Biodiversity Conservation*. WWF and ICIMOD. 2001.



ANNEXURES

Annex 1: Landuse pattern in ACA (km²).

Landuse		Area	%	Bhujung		Ghandruk		Jomsom		Lomanthang		Lwang		Manag		Sikles	
				Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
Landuse in ACA against Total Area	Forest	1160.5	15.2	237.2	3.11	232.0	3.04	103.4	1.36	0.0	0.00	211.5	2.8	120.3	1.58	256.1	3.36
	Shrubland	308.4	4.0	33.5	0.44	39.4	0.52	70.1	0.92	25.8	0.34	21.2	0.3	108.4	1.42	9.9	0.1
	Grassland	1622.3	21.3	34.8	0.46	136.0	1.78	329.5	4.32	744.6	9.76	101.4	1.3	222.7	2.92	53.4	0.7
	Agriculture	234.1	3.1	44.7	0.59	48.8	0.64	23.9	0.31	34.6	0.45	34.2	0.4	18.4	0.24	29.5	0.4
	Barren	3789.4	49.7	9.0	0.12	270.3	3.54	421.7	5.53	1629.7	21.36	113.7	1.5	1298.6	17.02	46.3	0.6
	Sand Gravel	127.9	1.7	1.9	0.02	7.0	0.09	24.6	0.32	68.0	0.89	5.6	0.1	14.1	0.18	6.7	0.1
	Snow cover	34.8	0.5	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.0	34.8	0.46	0.0	0.0
	Glacier	339.3	4.4	0.0	0.00	43.9	0.58	20.6	0.27	45.5	0.60	35.9	0.5	128.3	1.68	65.0	0.9
	River	5.4	0.1	0.5	0.01	0.7	0.01	3.2	0.04	0.5	0.01	0.3	0.004	0.1	0.00	0.1	0.0
	Lake/Pond	7.0	0.1	0.0	0.00	0.1	0.001	0.3	0.004	2.2	0.03	0.0	0.0	4.2	0.06	0.2	0.003
		7629	100	361.6	4.74	778.2	10.20	997.3	13.07	2550.9	33.44	523.8	6.9	1949.9	25.56	467.2	6.1
% Of Each Landuse in UCOS	Forest				20.44		19.99		8.91		0.00		18.2		10.37		22.1
	Shrubland				10.86		12.78		22.73		8.37		6.9		35.15		3.2
	Grassland				2.15		8.38		20.31		45.92		6.3		13.73		303
	Agriculture				19.09		20.85		10.21		14.78		14.6		7.86		12.65
	Barren				0.24		7.13		11.13		43.01		3.0		34.27		1.2
	Sand Gravel				1.49		5.47		19.24		53.17		4.4		11.03		5.2
	Snow cover				0.00		0.00		0.00		0.00		0.0		99.89		0.0
	Glacier				0.00		12.94		6.07		13.41		10.6		37.82		19.2
	River				9.33		13.06		59.70		9.33		5.6		1.87		1.9
	Lake/Pond				0.00		1.44		4.31		31.61		0.0		60.34		2.9

Annex 2: Demographic Data of ACA

A. Population data of ACA-Including all wards (CBS 2021)

District	UCO	Rural Municipality	Total Population	Male (%)	Female (%)	Total households	HH (%)	Sex ratio	Population density
Mustang	Lomanthang	Lomanthang	1,430	45	55	488	1.53	81.7	2
		Lo Ghekar Damodarkunda	1,292	47.1	52.9	436	1.37	89.17	1
	Jomsom	Varagung Muktichhetra	2,036	49.9	50.1	723	2.27	99.41	2
		Gharpajhong	3,712	52.3	47.7	1,127	3.54	109.84	12
		Thasang	2,856	50.9	49.1	832	2.61	103.71	10
Manang	Manang	Narpa Bhumi	396	42.7	57.3	126	0.40	74.45	0
		Manag Ngisyang	1,595	51.7	48.3	561	1.76	106.87	2
		Chame	1,276	57.2	42.8	389	1.22	133.7	0
		Nason	1,671	49.6	50.4	471	1.48	98.22	2
Myagdi	Ghandruk	Annapurna (Myagdi)	12,323	49.4	50.6	3,600	11.29	97.58	22
		Annapurna (kaski)	22,099	48.4	51.6	6,049	18.98	93.63	53
Kaski	Lwang	Macchapuchre	22,898	48.8	51.2	6,151	19.30	95.29	42
	Sikles	Madi	16,142	49.7	50.3	4,094	12.84	98.6	29
Lamjung	Bhujung	Marshyangdi	17,080	48.8	51.2	4,550	14.28	95.2	29
		Kwhola Sothar	7,960	48.3	51.7	2,276	7.14	93.25	45
		Total	114,766	49.32	50.68	31873			

B. Population dynamics of ACA Jurisdiction area

UCOs	Male	Female	Total Population	%	Total households	HH (%)	Sex ratio	Area (km ²)	Population density
Lomanthang	1252	1470	2722	3.52	1116	6.02	85.17	2567.5	1
Jomsom	4412	4192	8604	11.13	1775	9.58	105.25	994.5	9
Manang	2058	1881	3939	5.10	1201	6.48	109.41	1914.7	2
Ghandruk	8131	8427	16558	21.42	4295	23.18	96.49	807.8	20
Lwang	9908	10390	20298	26.26	4213	22.73	95.36	503.4	40
Sikles	5207	5225	10432	13.50	1840	9.93	99.66	458.7	23
Bhujung	7148	7590	14738	19.07	4091	22.08	94.18	382.4	39
Total	38116	39175	77291	100	18531	100	97.30	7629	10

C. Population growth rate of ACA districts

District	2048/1991		2058/2001		2068/2011		2078/2021	
	Population	Growth rate	Population	Growth rate	Population	Growth rate	Population	Growth rate
Kaski	2,92,945	1.58%	3,80,527	1.64%	4,92,098	1.86%	6,00,051	1.90%
Lamjung	1,53,697	0.83%	1,77,149	0.77%	1,67,724	0.63%	1,55,852	-0.70%
Manang	5,363	0.03%	9,587	0.04%	6,538	0.02%	5,658	-1.39%
Mustang	14,292	0.08%	14,981	0.06%	13,452	0.05%	14,452	0.69%
Myagdi	1,00,552	0.54%	1,14,447	0.49%	1,13,641	0.43%	1,07,033	-0.57%

D. Population density of ACA districts

District	Area of District (km ²)	Population Density			
		1991	2001	2011	2021
Kaski	2017	145	189	244	298
Lamjung	1692	91	105	99	92
Manang	2246	2	4	3	3
Mustang	3573	4	4	4	4
Myagdi	2297	44	50	49	47

Annex 3: Ethnic composition in ACA

Ethnicity	Ghandruk	Lwang	Sikles	Bhujung	Manang	Jomsom	Lomanthang	ACA
Gurung	3698	2980	5612	12381	2601	1857	1533	30662
Brahman - Hill	6151	6586	3992	706	232	938		18605
Bishwokarma	6062	3242	1759	3048	286	1325	18	15740
Kshetri	3818	1809	1576	3221	303	296	32	11055
Magar	6485	1638	361	205	263	1129		10081
Pariyar	1771	1427	1226	982	66	741		6213
Tamang	150	1625	263	2453	229	229		4949
Pun	3668	523						4191
Mijar	1144		736	598	29	71		2578
Thakali	254	17			37	1894		2202
Ghale	17	36	20	777	338	11		1199
Lhopa							1076	1076
Others	96	44	55	73	571	137	45	1021
Gharti/Bhujel	153	215	243	232	26			869
Thakuri	81	369	196	10	46	50	18	770
Newa:(Newar)	157	231	19	175	89	48		719
Bhote					372	63		435
Rai	179	85	13	31	51	55		414
Sanyasi/Dasnami	242	106	57					405
Sherpa	15	19			32	165		231
Sunuwar	90	103						193
Tharu	41	34			31	34		140
Hyolmo/Yholmopa				137				137
Dolpo						108		108
Musalman	38	10	14	11		17		90
Foreigner	17	24			12			53
Sonar	45							45
Yakthung/Limbu	28	13						41
Kumal		11			14			25
Chhantyal/Chhantel	11	14						25
Kathabaniyan		21						21
Marwadi						18		18
Santhal					16			16
Chepang/Praja					14			14
Kulung	11							11
Hajam/Thakur						10		10

Annex 4: Segregated data on the Ethnic composition of Each RM of Each UCO

UCOs	Ghandruk UCO				Lwang UCO				Sikles UCO		
Ethnicity	Male	Female	Total	Ethnicity	Male	Female	Total	Ethnicity	Male	Female	Total
Bishwokarma	2815	3247	6062	Kshetri	870	939	1809	Kshetri	767	809	1576
Brahman - Hill	2987	3164	6151	Brahman - Hill	3219	3367	6586	Brahman - Hill	2002	1990	3992
Chhantyal/Chhantel	5	6	11	Magar	843	795	1638	Magar	180	181	361
Foreigner	14	3	17	Tharu	25	9	34	Tamang	142	121	263
Ghale	8	9	17	Tamang	819	806	1625	Newa:(Newar)	9	10	19
Gharti/Bhujel	76	77	153	Newa:(Newar)	120	111	231	Bishwokarma	877	882	1759
Gurung	1862	1836	3698	Bishwokarma	1553	1689	3242	Musalman	6	8	14
Kshetri	1859	1959	3818	Musalman	7	3	10	Rai	5	8	13
Kulung	5	6	11	Rai	43	42	85	Gurung	2761	2851	5612
Magar	3216	3269	6485	Gurung	1486	1494	2980	Pariyar	611	615	1226
Mijar	569	575	1144	Pariyar	677	750	1427	Thakuri	102	94	196
Musalman	22	16	38	Thakuri	186	183	369	Mijar	379	357	736
Newa:(Newar)	88	69	157	Yakthung/Limbu	8	5	13	Sanyasi/Dasnami	28	29	57
Others	49	47	96	Mijar	774	931	1705	Gharti/Bhujel	108	135	243
Pariyar	846	925	1771	Sanyasi/Dasnami	55	51	106	Ghale	13	7	20
Pun	1803	1865	3668	Kathabaniyan	8	13	21	Others	27	28	55
Rai	91	88	179	Kumal	5	6	11	Total	8017	8125	16142
Sanyasi/Dasnami	114	128	242	Gharti/Bhujel	113	102	215				
Sherpa	6	9	15	Sherpa	6	13	19				
Sonar	21	24	45	Sunuwar	48	55	103				
Sunuwar	41	49	90	Ghale	17	19	36				
Tamang	80	70	150	Thakali	7	10	17				
Thakali	115	139	254	Chhantyal/Chhantel	6	8	14				
Thakuri	43	38	81	Pun	232	291	523				
Tharu	21	20	41	Others	26	18	44				
Yakthung/Limbu	16	12	28	Foreigner	13	11	24				
Total	16772	17650	34422	Not stated	7	4	11				
				Total	11173	11725	22898				

	Bhujung UCO			Manang UCO					Jomsom UCO				Lomanthang UCO		
Ethnicity	Male	Female	Total	Ethnicity	Male	Female	Total	Ethnicity	Male	Female	Total	Ethnicity	Male	Female	Total
Bishwokarma	1450	1598	3048	Kshetri	256	47	303	Bhote	27	36	63	Bishwokarma	9	9	18
Brahman - Hill	348	358	706	Brahman - Hill	196	36	232	Bishwokarma	660	665	1325	Gurung	683	850	1533
Ghale	372	405	777	Magar	187	76	263	Brahman - Hill	181	64	245	Kshetri	18	14	32
Gharti/Bhujel	112	120	232	Tharu	23	8	31	Dolpo	42	66	108	Lhopa	499	577	1076
Gurung	5995	6386	12381	Tamang	133	96	229	Ghale	6	5	11	Others	31	14	45
H Yolmo/Yholmopa	66	71	137	Newa:(Newar)	67	22	89	Gurung	893	964	1857	Thakuri	12	6	18
Kshetri	1582	1639	3221	Bishwokarma	165	121	286	Hajam/Thakur	4	6	10	Total	1252	1470	2722
Magar	106	99	205	Rai	37	14	51	Kshetri	177	119	296				
Mijar	292	306	598	Gurung	1307	1294	2601	Magar	577	552	1129				
Musalman	6	5	11	Pariyar	47	19	66	Marwadi	8	10	18				
Newa:(Newar)	82	93	175	Thakuri	31	15	46	Mijar	35	36	71				
Others	43	30	73	Mijar	27	2	29	Musalman	13	4	17				
Pariyar	461	521	982	Kumal	14	0	14	Newa:(Newar)	34	14	48				
Rai	20	11	31	Gharti/Bhujel	18	8	26	Others	87	50	137				
Tamang	1230	1223	2453	Sherpa	24	8	32	Pariyar	359	382	741				
Thakuri	6	4	10	Chepang/Praja	9	5	14	Rai	30	25	55				
Total	12171	12869	25040	Santhal	9	7	16	Sherpa	95	70	165				
				Ghale	185	153	338	Tamang	129	100	229				
				Bhote	160	212	372	Thakali	951	943	1894				
				Thakali	18	19	37	Thakuri	26	24	50				
				Others	270	301	571	Tharu	20	14	34				
				Foreigner	9	3	12	Total	4354	4149	8503				
				Total	3192	2466	5658								

Annex 5: Literacy rate in Rural municipalities of ACA

UCOs	Rural Municipality	Population	Total Population	Literate Male %	Literate Female %	Literacy rate (%)
Lomanthang	Lomanthang	1430	2722	58.63	36.04	46.39
	Lo Ghekar Damodarkunda	1292				
Jomsom	Varagung Muktichhetra	2036	8604	82.13	67.93	75.20
	Gharpajhong	3712				
	Thasang	2856				
Manang	Narpa Bhumi	396	4938	83.27	66.32	75.13
	Manag Ngisyang	1595				
	Chame	1276				
	Nason	1671				
Ghandruk	Annapurna	12323	34422	86.8	72.2	79.2
	Annapurna	22099				
Lwang	Macchapuchre	22898	22898	86.9	74.1	80.3
Sikles	Madi	16142	16142	86	69	77.4
Bhujung	Marshyangdi	17080	25040	78	60	71
	Kwhola Sothar	7960				
			Total Avg.	80.29	63.73	72.05

Annex 6: Absentee population in ACA

UCO	Rural Municipality	Total Household	Household with absentee	Absent population		
				Male	Female	Total
Manang	Narpa Bhumi Gaunpalika	126	35	37	26	63
	Manang Ngisyang Gaunpalika	561	67	55	38	93
	Chame Gaunpalika	389	29	31	12	43
	Nason Gaunpalika	471	80	82	38	120
Jomsom	Thasang Gaunpalika	832	72	72	18	90
	Gharpajhong Gaunpalika	1127	137	111	101	212
	Varagung Muktichhetra Gaunpalika	723	158	168	86	254
Lomanthang	Lomanthang Gaunpalika	488	202	209	99	308
	Lo Ghekar Damodarkunda Gaunpalika	436	188	187	156	343
Ghandruk	Annapurna Gaunpalika Myagdi	3600	872	901	238	1139
	Annapurna Gaunpalika Kaski	6049	1711	1856	304	2160
Lwang	Machhapuchchhre Gaunpalika	6151	1605	1688	336	2024
Sikles	Madi Gaunpalika	4094	1150	1360	301	1661
Bhujung	Marshyangdi Gaunpalika	4550	1355	1526	217	1743
	Kwhola Sothar Gaunpalika	2276	693	798	153	951
	Total	31873	8354	9081	2123	11204

Annex 7: Total Migration from ACA with the main reason for migration

UCO	RM	Total	Work/ Employment	Trade/ business	Study/training	Marriage	Dependent	Natural calamities	Agriculture	Returning home	Others	Not stated
Manang	Narpa Bhumi	80	14	0	0	12	0	0	0	49	1	4
	Manang Ngisyang	664	382	14	18	44	43	3	1	154	5	0
	Chame	810	423	62	29	109	145	0	1	33	8	0
	Nason	542	145	13	25	204	47	2	1	94	8	3
Jomsom	Thasang	805	374	10	16	198	138	0	1	4	31	33
	Gharpajhong	1843	846	117	76	298	388	2	27	51	11	27
	Varagung Muktichetra	690	372	32	7	70	85	1	76	13	17	17
Lomanthang	Lomanthang	25	11	3	0	11	0	0	0	0	0	0
	Lo Ghekar Damodarkunda	121	40	0	0	63	5	0	0	2	1	10
Bhujung	Marshyangdi	1733	140	47	19	1307	86	0	7	19	41	67
	Kwhola Sothar	1120	132	13	16	901	16	1	2	6	5	28
Ghandruk	Annapurna Myagdi	1229	252	55	39	634	102	5	10	42	60	30
	Annapurna Kaski	5969	827	246	110	3381	784	14	136	63	164	244
Lwang	Machhapuchhre	5461	569	50	103	3354	731	21	133	69	210	221
Sikles	Madi	2500	166	21	15	1811	112	13	65	66	49	182
	Total	23592	4693	683	473	12397	2682	62	460	665	611	866

Annex 8: Number of households by type of fuel usually used for cooking in ACA

UCO	Rural Municipality	Wood	LPG	Electricity	Cow dung	Biogas	Kerosene	Others	Total
Manang	Narpa Bhumi Gaunpalika	120	4	0	0	0	1	1	126
	Manang Ngisyang Gaunpalika	342	187	1	0	30	0	1	561
	Chame Gaunpalika	276	113	0	0	0	0	0	389
	Nason Gaunpalika	320	150	0	0	0	0	1	471
Jomsom	Thasang Gaunpalika	464	366	1	0	0	1	0	832
	Gharpajhong Gaunpalika	140	983	2	0	1	0	1	1127
	Varagung Muktichhetra Gaunpalika	233	489	0	0	0	1	0	723
Lomanthang	Lomanthang Gaunpalika	248	6	1	113	119	0	1	488
	Lo Ghekar Damodarkunda Gaunpalika	124	107	0	0	205	0	0	436
Ghandruk	Annapurna Gaunpalika Myagdi	2730	849	2	0	19	0	0	3600
	Annapurna Gaunpalika Kaski	4170	1855	6	0	14	1	3	6049
Lwang	Machhapuchchhre Gaunpalika	3381	2727	2	0	40	0	1	6151
Sikles	Madi Gaunpalika	3582	494	6	0	12	0	0	4094
Bhujung	Marshyangdi Gaunpalika	3395	1053	1	0	97	2	2	4550
	Kwhola Sothar Gaunpalika	2062	206	0	0	7	0	1	2276
	Total	21587	9589	22	113	544	6	12	31873

Annex 9: Forest Types and Ecosystems

A. Ecosystems Types

SN	Ecosystems Types
1	Glaciers, snow, rock
2	Mesophytic mat patches and vegetation on rocks
3	Mesophytic and hydrophytic mat patches and vegetation on rocks
4	Rhododendron mesophytic scrublands
5	Upper sub-alpine Rhododendron-Birch Forest
6	Upper sub-alpine Birch Blue-pine open forest
7	Upper subalpine north Himalayan alpine vegetation
8	Lower sub-alpine Fir (<i>Abies spectabilis</i>) forest
9	High altitude cushion plant formation
10	<i>Caragana versicolor</i> , <i>Lonicera spinosa</i> steppe
11	<i>Caragana gerardiana</i> , <i>Lonicera spinosa</i> steppe
12	<i>Caragana brevispina</i> , <i>Artemesia</i> steppe
13	<i>Myricaria-Hippophae-Salix</i> riverain thickets
14	<i>Sophora moorcroftiana</i> , <i>Oxtropis mollis</i> steppe
15	Mixed hydrophytic Oak-Hemlock-Fir
16	Open and dry montane Blue Pine
17	Juniper forest Mountain Oak (<i>Quercus semecarpifolia</i>)
18	Blue Pine-spruce Forest
19	Spruce mountain forest
20	Blue Pine-cypress Forest
21	Cypress forest with Dwarf Barberry
22	Open Blue Pine Forest
23	Collinean Oak-mixed Broadleaved Forest
24	<i>Aesculus</i> , <i>Juglans</i> riverain forest
25	Hydrophytic <i>Quercus lamellosa</i> forest
26	Hydrophytic <i>Schima wallichii</i>
27	<i>Schima wallichii</i> , <i>Castanopsis indica</i> hydrophytic
28	Pokhara cultivated areas

B. Forests type

Climate region	Forests type
Tropical and sub-tropical	<ul style="list-style-type: none"> ♣ Hill Sal forest: ♣ Subtropical Deciduous hill Forest: ♣ Schima-Castanopsis Forest ♣ Subtropical Semievergreen hill forest ♣ <i>Pinus roxburghii</i> forest
Temperate and Alpine Broadleaved	<ul style="list-style-type: none"> ♣ <i>Quercus semicarpifolia</i> forest ♣ <i>Quercus lamellose</i> forest ♣ Lower temperate mixed broadleaved forest ♣ Upper temperate mixed broadleaved forest ♣ Rhododendron Forest ♣ <i>Betula utilis</i> forest
Temperate and Alpine Conifers	<ul style="list-style-type: none"> ♣ <i>Abies spectabilis</i> forest ♣ <i>Tsuga dumosa</i> forest ♣ <i>Pinus excelsa</i> (<i>P. wallichiana</i>) forest ♣ <i>Picea smithiana</i> forest ♣ <i>Cupressus torulosa</i> forest
Minor temperate and Alpine association	<ul style="list-style-type: none"> ♣ <i>Alnus</i> wood ♣ <i>Populus ciliata</i> wood ♣ Hippophae scrub ♣ Moist alpine scrub ♣ Dry alpine scrub ♣ <i>Juniperus wallichiana</i> forest

Annex 10: Protected plants in ACA

Scientific Name	Common English Name	Local Name
<i>National list of plants banned for export</i>		
<i>Abies spectabilis</i>	Fir	Talispatra
<i>Nardostachys jatamansi</i>	Muskroot	Jatamansi
<i>Taxus wallichiana</i>	East Himalayan yew	Lauth Salla
<i>Valeriana jatamansii</i>	Spike nard	Jatamansi
<i>Ophiocordyceps Sinensis (Fungi)</i>	Caterpillar fungus	Yarsagumba
<i>National list of timber trees banned for felling, transportation, or export</i>		
<i>Shorea robusta</i>	Common sal	Sal
<i>Bombax ceiba</i>	Red silk cotton tree	Simal
<i>Juglans regia</i>	Walnut	Okhar
<i>Magnolia champaca</i>	Magnolia	Champ
<i>National list of plants banned for collection, use, sale, distribution, transportation, and export</i>		
<i>Neopicrorhiza scrophulariiflora</i>	Figwort Picrorhiza	Kutki
<i>Dactylorhiza hatagirea</i>	Himalayn Marsh Orchid	Panch aunle
<i>Juglans regia (bark only)</i>	Walnut	Okhar

Annex 11: Mammals and their conservation status in ACA

SN	Order	Family	Scientific name	Common Name	Nepali name	IUCN	GoN	CITES
1	Primates	Cercopithecidae	<i>Macaca mulatta</i>	Rhesus Macaque	रातो बाँदर	LC		II
2			<i>Macaca assamensis</i>	Assamese Macaque	पहरे बाँदर	NT	P	II
3			<i>Semnopithecus schistaceus</i>	Nepal Grey Langur	कालोमुखे बाँदर, लाम्मुच्छे बाँदर, ढेंडु	LC		I
4	Pholidota	Manidae	<i>Manis pentadactyla</i>	Chinese Pangolin	कालो सालक	CR	P	I
5	Carnivora	Felidae	<i>Unica unica</i>	Snow Leopard	हिँऊ चितुवा	VU	P	I
6			<i>Lynx Lynx</i>	Eurasian Lynx	पाहन बिरालो, प्याकु बिरालो	LC	P	II
7			<i>Panthera pardus</i>	Leopard	चितुवा	VU		I
8			<i>Catopuma temminckii</i>	Asiatic Golden Cat	सुनौलो बिरालो	NT		
9			<i>Pardofelis marmorata</i>	Marbled Cat	छिर्बिरे बिरालो	NT		I
10			<i>Prionailurus bengalensis</i>	Leopard Cat	चरी बाघ	LC	P	II
11			<i>Felis chaus</i>	Jungle Cat	वन बिरालो	LC		II
12			<i>Neofelis nebulosa</i>	Clouded Leopard	ध्वाँसे चितुवा	VU	P	I
13			<i>Otocolobus manul</i>	Pallas Cat	जुंगे बिरालो	NT		
14		Viverridae	<i>Viverra zibetha</i>	Large Indian Civet	ठुलो निर बिरालो, सिली	LC		
15			<i>Viverricula indica</i>	Small Indian Civet	साना निर बिरालो	LC		
16			<i>Paguma larvata</i>	Masked Palm Civet	गाजलु निर बिरालो, कस्तुरी बिरालो	LC		
17			<i>Paradoxurus hermaphroditus</i>	Common Palm Civet	टाँडी निर बिरालो	LC		
18			<i>Prionodon pardicolor</i>	Spotted Linsang	सिलु बिरालो	LC	P	I
19		Prionodontidae	<i>Herpestes edwardsi</i>	Indian Grey Mongoose	ठुलो न्याउरीमुसा	LC		
20		Herpestidae	<i>Herpestes auropunctatus</i>	Small Indian Mongoose	सानो न्याउरीमुसा	LC		
21			<i>Herpestes urva</i>	Crab-Eating Mongoose	गंगटे न्याउरीमुसा	LC		
22			<i>Canis lupus</i>	Himalayan Wolf	हिमाली ब्वाँसो	LC	P	I
23		Canidae	<i>Canis aureus</i>	Golden Jackal	स्याल	LC		
24			<i>Vulpes vulpes</i>	Red fox	रातो फ्याउरो	LC		
25			<i>Vulpes bengalensis</i>	Indian Fox	फुस्रो फ्याउरो	LC		
26			<i>Cuon alpinus</i>	Dhole/ Asiatic Wild Dog	वन कुकुर	EN		II

27			<i>Vulpes ferrilata</i>	Tibetan Fox	भोटे फ्याउरो	LC		
28			<i>Ursus thibetanus</i>	Himalayan Black Bear	कालो भालु	VU		I
29		Ursidae	<i>Ursus arctos</i>	Brown Bear	रातो भालु	LC	P	I
30			<i>Ailurus fulgens</i>	Red Panda	हाब्रे, पुँडेकुंद्रो	EN	P	I
31		Ailuridae	<i>Lutra lutra</i>	Eurasian Otter	कालो ओत	NT		I
32		Mustelidae	<i>Lutra perspicillata</i>	Smooth-coated Otter	खैरो ओत	VU		II
33			<i>Martes flavigula</i>	Yellow-throated Marten	कृखैरी मल्साप्रो	LC		
34			<i>Martes foina</i>	Stone/ Beech Marten	हिमाली मल्साप्रो	LC		
35			<i>Mustela erminea</i>	Erminne/Stoat/ Short-tailed Weasel	बहुरूपी मल्साप्रो	LC		
36			<i>Mustela kathiah</i>	Yellow-bellied Weasel	पितोदार मल्साप्रो	LC		
37			<i>Mustela strigidorsa</i>	Stripe-Backed Weasel	धर्के मल्साप्रो	LC		
38			<i>Mustela altaica</i>	Altai/Mountain Weasel	पहाडी मल्साप्रो	NT		
39			<i>Mustela sibirica</i>	Siberian Weasel	साइबेरियाली मल्साप्रो	LC		
40			<i>Mustela eversmanii</i>	Steppe Polecat	क्याक	LC		
41			<i>Melogale personata</i>	Large-toothed Ferret Badger	सानो सुंगुरे भालु	LC		
42	Eulipotyphla	Soricidae	<i>Suncus murinus</i>	Asian House Shrew	घर छुचुन्द्रो	LC		
43			<i>Soriculus nigrescens</i>	Sikkim Large-Clawed Shrew	सिक्किमे छुचुन्द्रो	LC		
44			<i>Crocidura baileyi</i>	Bailey's Shrew	छुचुन्द्रो	LC		
45			<i>Nectogale elegans</i>	Elegant Water Shrew	सुन्दर पानीछुचुन्द्रो	LC		
46			<i>Chimarrogale himalayica</i>	Himalayan Water Shrew	पहाडी पानीछुचुन्द्रो	LC		
47			<i>Episoriculus leucops</i>	Long-tailed Brown-toothed Shrew	लामपुच्छे खैरो दाँते छुचुन्द्रो	LC		
48			<i>Episoriculus caudatus</i>	Hodgson's Brown-toothed Shrew	हडसनको खैरो दाँते छुचुन्द्रो	LC		
49	Chiroptera	Pteropodidae	<i>Pteropus giganteus</i>	Indian Flying Fox	राज चमेरो	LC		II
50			<i>Rousettus eschenaulti</i>	Leschenault's Rousette Bat	सानो बदुरा चमेरो	LC		
51			<i>Cynopterus sphinx</i>	Greater Short-nosed Fruit Bat	नेप्टे चमेरो	LC		
52		Rhinolophidae	<i>Rhinolophus ferrumequinum</i>	Greater Horseshoe Bat	ठूलो घोइनाले चमेरो	LC		
53			<i>Rhinolophus affinis</i>	Intermediate Horseshoe Bat	मझलो घोइनाले चमेरो	LC		
54			<i>Rhinolophus macrotis</i>	Big-eared Horseshoe Bat	लामकाने घोइनाले चमेरो	LC		

55			<i>Rhinolophus pusillus</i>	Least Horseshoe Bat	पिएरसनको घोडनाले चमेरो	LC		
56			<i>Rhinolophus pearsonii</i>	Pearson's Horseshoe	सानो घोडनाले चमेरो	LC		
57			<i>Rhinolophus subbadius</i>	Little Nepalese Horseshoe Bat	घोडनाले चमेरो	LC		
58			<i>Rhinolophus sinicus</i>	Chinese Horseshoe Bat	रातो घोडनाले चमेरो	LC		
59			<i>Hipposideros armiger</i>	Great Himalayan Leaf-Nosed Bat	ठूलो गोलोपत्रे चमेरो	LC		
60			<i>Hipposideros cineraceus</i>	Least Leaf-Nosed Bat	फुस्रो गोलोपत्रे चमेरो	LC		
61		Hipposideridae	<i>Hipposideros pomona</i>	Andersen's Leaf-nosed Bat	गुदीखाने गोलोपत्रे चमेरो	LC		
62			<i>Arielulus circumdatus</i>	Bronze Sprite	काले चमेरो	LC		
63			<i>Barbestella leucomelas</i>	Asian/Eastern Barbestelle Myotis	हिमाली चमेरो	LC		
64		Vespertilionidae	<i>Nyctalus montanus</i>	Mountain Noctule	पहाडी चमेरो	LC		
65			<i>Pipistrellus coromandra</i>	Coromandel Pipistrelle	बुच्चे चमेरो	LC		
66			<i>Pipistrellus javanicus</i>	Javan Pipistrelle	चमेरो	LC		
67			<i>Myotis mystacinus</i>	Steppe Whiskered Bat	चमेरो	LC		
68			<i>Myotis nipalensis</i>	Nepal Myotis Bat	नेपाली मुसाकाने चमेरो	LC		
69			<i>Myotis siligorensis</i>	Himalayan Whiskered Bat	सानो दाँते चमेरो	LC		
70			<i>Myotis formosus</i>	Hodgson's Bat	हडसनको चमेरो	LC		
71			<i>Myotis muricola</i>	Nepalese Whiskered Bat	पर्खाले चमेरो	LC		
72			<i>Myotis csorbai</i>	Csorba's Mouse-eared Myotis	चमेरो	DD		
73			<i>Myotis sicarius</i>	Mandelli's Mouse-Eared Myotis	मन्डीलीको मुसाखाने चमेरो	VU		
74			<i>Scotomanes ornatus</i>	Harlequin Bat	गहना चमेरो	LC		
75			<i>Nyctalus noctula</i>	Noctule	गान्धे चमेरो	LC		
76			<i>Plecotus auritus</i>	Brown Big-eared Bat	खैरो लामकाने चमेरो	LC		
77			<i>Kerivoula picta</i>	Painted Bat	रङ्गीचङ्गी चमेरो	LC		
78		Miniopteridae	<i>Miniopterus pusillus</i>	Small Long-fingered Bat	सानो बाङ्गो चमेरो	LC		
79	Rodentia	Sciuridae	<i>Dremomys lokriah</i>	Orange-Bellied Himalayan Squirrel	हिमाली वन लोखर्के	LC		
80			<i>Callosciurus pygerythrus</i>	Hoary-Bellied/ Irrawaddy Squirrel	पहाडी वन लोखर्के	LC		
81			<i>Tamiops macclellandii</i>	Himalayan Striped Squirrel	हिमाली धर्के लोखर्के	LC		
82			<i>Hylopetes alboniger</i>	Particolored Flying Squirrel	माले राजपखी लोखर्के	LC		

83			<i>Petaurista elegans</i>	Spotted Giant Flying Squirrel	थोप्ले राजपंखी लोखर्के	LC		
84			<i>Petaurista magnificus</i>	Hodgson's Giant Flying Squirrel	सुन्दर राजपंखी लोखर्के	LC		
85			<i>Petaurista nobilis</i>	Bhutan Giant Flying Squirrel	भुटानी राजपंखी लोखर्के	NT		
86			<i>Petaurista petaurista</i>	Red Giant Flying Squirrel	रातो राजपंखी लोखर्के	LC		
87			<i>Marmota himalayana</i>	Himalayan Marmot	हिमाली फ्याउमुसा	LC		
88		Cricetidae	<i>Phaiomys leucurcus</i>	Blyth's Vole	ब्लीथको मुसो	LC		
89			<i>Alticola roylei</i>	Royle's Mountain Vole	पहाडी घाँसे मुसा	NT		
90		Muridae	<i>Mus musculus</i>	House Mouse	घर मूसा	LC		
91			<i>Mus booduga</i>	Common Indian Field Mouse	सानो खेतमूसो	LC		
92			<i>Mus cervicolor</i>	Fawn-colored Mouse	खाकिरङ्गी मूसो	LC		
93			<i>Rattus nitidus</i>	Himalayan Field Rat	हिमाली खेतमूसो	LC		
94			<i>Rattus rattus</i>	House Rat	घर मूसो	LC		
95			<i>Rattus norvegicus</i>	Brown Rat	खैरो धानचरी	LC		
96			<i>Rattus pyctoris</i>	Himalayan Rat	तुर्किस्ताने मूसो	LC		
97			<i>Bandicota bengalensis</i>	Lesser Bandicoot Rat	सानो ढाडेमूसो	LC		
98			<i>Bandicota indica</i>	Greater bandicoot Rat	ठूलो ढाडेमूसो	LC		
99			<i>Millardia meltada</i>	Soft-furred Rat	मखमली मूसो	LC		
100			<i>Apodemus gorkha</i>	Nepalese/ Himalayan Field Mouse	हिमाली मूसो	LC		
101			<i>Apodemus sylvaticus</i>	Long-tailed Field Mouse	लामपूच्छे खेतमूसो	LC		
102		Muridae	<i>Apodemus pallipes</i>	Ward's / Himalayan Field Mouse	वार्डको खेतमूसो	LC		
103			<i>Nesokia indica</i>	Short-tailed Bandicoot Rat	टुटे ढाडेमूसो	LC		
104			<i>Niviventer eha</i>	Little Himalayan/ Smoke-bellied Rat	ध्वाँसे मूसो	LC		
105			<i>Niviventer niviventer</i>	Himalayan White-bellied Rat	हडसनको दूधभुँडी मूसो	LC		
106			<i>Niviventer fulvescens</i>	Chestnut White-bellied Rat	दूधभुँडी मूसो	LC		
107		Hystricidae	<i>Hystrix indica</i>	Indian Crested Porcupine	जुरे दुम्सी	LC		
108			<i>Hystrix brachyura</i>	Himalayan/Malayan Porcupine	मलाया दुम्सी	LC		
109	Lagomorpha	Leporidae	<i>Lepus oiostolus</i>	Wolly Hare	भोटे खरायो	LC		
110			<i>Lepus nigricollis</i>	Indian Hare	खैरो खरायो	LC		

111		Ochotonidae	<i>Ochotona roylei</i>	Royle's Pika	मूसो टुटेखरायो	LC		
112			<i>Ochotona curzoniae</i>	Plateau/Black-lipped Pika	कालोमुखे टुटेखरायो	LC		
113			<i>Ochontona nubrica</i>	Nubra Pika	नुब्रि टुटेखरायो	LC		
114			<i>Ochontona macrotis</i>	Large-eared Pika	लाम्काने टुटेखरायो	LC		
115			<i>Ochotona thibetana</i>	Moupin Pika	तिब्बती टुटेखरायो	LC		
116	Perrisodactyla	Equidae	<i>Equus kiang</i>	Kiang/Tibetan Wild Ass	क्याङ्ग, जंगली गधा	LC		II
117	Cetartiodactyla	Bovidae	<i>Bos mutus</i>	Wild Yak	जंगली चौरीगाई	VU	P	
118			<i>Ovis ammon</i>	Tibetan Argali	नायन	NT		
119			<i>Pseudois nayaur</i>	Blue Sheep/Bharal	नाउर	LC		
120			<i>Hemitragus jemlahicus</i>	Himalayan Tahr/Jharal	भारल	NT		
121			<i>Capricornis thar</i>	Himalayan Serow	थार/सिरो	NT		I
122			<i>Naemorhedus goral</i>	Himalayan Goral	घोरल	NT		I
123			<i>Pantholops hodgsonii</i>	Tibetan Antelope/Chiru	चिरु	NT	P	I
124			<i>Procapra picticaudata</i>	Tibetan Gazelle/Goa	घोवा	NT	P	
125		Cervidae	<i>Muntiacus vaginalis</i>	Barking Deer	रतुवा	LC		
126		Moschidae	<i>Moschus leucogaster</i>	Himalayan Musk Deer	सेतोक्ण्ठे कस्तुरी	EN	P	I
127			<i>Moschus cupreus</i>	Kashmir Musk Deer	कस्मीरी कस्तुरी	EN		I
128		Suridae	<i>Sus scrofa</i>	Wild Boar/ Eurasian Wild Pig	जंगली बंदेल	LC		

Annex 12: Reptiles and their conservation status

SN	Order	Family	Scientific name	Common Name	Nepali Name	IUCN	GoN	CITES	Endemism
1	Squamata	Agamidae	<i>Calotes versicolor</i>	Oriental Garden Lizard	बगैचे छेपारो / गिरगिट	LC			
2			<i>Japalura tricarinata</i>	Three-keeled Mountain Lizard	तीन धर्कें जंगली छेपारो	LC			
3			<i>Japalura major</i>	Large mountain Lizard/ Greater Forest agama	ठुलो वन छेपारो	LC			
4			<i>Laudakia tuberculata</i>	Kashmir Rock Agama	पत्थर चटुवा छेपारो / पिठोचोर / भीर छेपारो	LC			
5			<i>Phrynocephalus theobaldi</i>	Theobald's Toad-headed Agama	हिँऊ छेपारो	LC			
6			<i>Japalura Variegata</i>	Variegated Mountain Lizard	हिमाली छेपारो	LC			
7		Gekkonidae	<i>Hemidactylus brookii</i>	Spotted House Gecko	शोप्ले घर भित्ती/ टिकटिके माउसुली	NE			
8			<i>Hemidactylus flaviviridis</i>	Yellow-bellied House Gecko	पहेलो शोप्ले घर भित्ती/ माउसुली / छिपकली / पुच्छर कटुवा	LC			
9			<i>Hemidactylus frenatus</i>	Common House Gecko	भल्लरी घर भित्ती/ माउसुली / भित्ती/ चिपकने	LC			
10			<i>Cyrtodactylus annapurnapurnaensis</i>	ACAP Bent-toed gecko					
11		Scincidae	<i>Asymblepharus himalayanus</i>	Himalaya Ground Skink	हिमाली भानेमुंगू / चिकनी गिरगिट	LC			
12			<i>Asymblepharus ladacensis</i>	Glacier Skink / Ladak Ground Skink	हिमनदी भानेमुंगू / चिकनी गिरगिट	LC			
13			<i>Asymblepharus sikimensis</i>	Sikkim Ground Skink	सिकिमे भई भानेमुंगू / चिकनी गिरगिट	LC			
14			<i>Eutropis carinata</i>	Brahminy Skink/ Keeled Indian Mabuya	भारतिय भानेमुंगू / चिकनी गिरगिट	LC			
15			<i>Scincella capitanea</i>	Annapurna Ground Skink/ Large Ground Skink	ठुलो भुई भानेमुंगू / भानेमुंगू / चिकनी गिरगिट	LC			Endemic to ACA
16			<i>Sphenomorphus maculatus</i>	Spotted Forest Skink	सिकिमे जंगली भानेमुंगू / चिकनी गिरगिट	LC			
17		Varanidae	<i>Varanus flavescen</i>	Golden Monitor /Yellow Monitor	सुन गोहोरो	EN	P	I	
18		Colubridae	<i>Boiga multifasciata</i>	Many-banded Cat Snake	हिँऊ विराले साप / धेरै धर्कें रख सर्प	LC			

19		<i>Boiga trigonata</i>	Common cat snake/ Indian gamma snake	तिरिसे सर्प/भारती विराले साप	LC		
20		<i>Coelognathus helena</i>	Common trinket snake	भिल्के साप/ उडने सर्प/ सिंगारे सर्प	LC		
21		<i>Coelognathus radiatus</i>	Copper-headed Trinket	रातो टाउके गहने साप	LC		
22		<i>Elaphe hodgsonii</i>	Himlayan Trinket/ Hodgson's Ratsnake	बयना / पिला मटिया	LC		
23		<i>Fowlea sanctijohannis</i>	St. John's Keelback	जोनको डोडीया साप	LC		
24		<i>Liopeltis rappi</i>	Himalayan Stripe-necked snake	हिमाली धर्सै घाटे सर्प	LC		
25		<i>Lycodon aulicus</i>	Common Wolfsnake	त्रिचण्डेसर्प / बुवासेसर्प	LC		
26		<i>Oligodon erythrogaster</i>	Nagarkot Kukri Snake /Red-bellied Kukri Snake	रातो भुडे कुरी साप / नगरकोटे सर्प	NT		
27		<i>Oreocryptophis porphyraceus</i>	Black banded trinket snake Red Bamboo Snake	कालो पाते गहने साप	LC		
28		<i>Oligodon arnensis</i>	Common kukri snake	पाटे कुरी साप			
29		<i>Ptyas mucosa</i>	Oriental Ratsnake	धामन / सर्प/ढोडया साँप	LC		
30		<i>Fowlea piscator</i>	Checked Keelback	पानी सर्प / ढोडिया सर्प / पनपिउंटा	LC		
31		<i>Sibynophis sagittarius</i>	Cantor's Black-headed snake	क्यान्टरको कालो टाउके सर्प	LC		
32		<i>Boiga ochracea</i>	Tawny Cat Snake	खरो पहिले विराले सर्प/ चुडेउ सर्प	LC		
33	Elapidae	<i>Ophiophagus hannah</i>	King Cobra	राजगोमन / कालीनाग / नागराजा	VU	II	
34		<i>Sinomicrurus maccllellandi</i>	MacClelland's Coral Snake	मुगा साँप / कर्कट नाग / रातो सर्प	LC		
35	Natricidae	<i>Amphiesma stolatum</i>	Buff Striped Keelback	हर-हरा / बाहुनेसाँप	LC		
36		<i>Rhabdophis himalayanus</i>	Himalayan Keelback / Himalayan boigine snake	नेपाली दलीने साँप / सर्प	LC		
37		<i>Herpetoreas platyceps</i>	Himalayan Keelback	चंखे सर्प / हिमाली धर्के साँप / रातो सर्प	LC		
38		<i>Hebius parallelus</i>	Striped Keelback	धर्क सर्प	DD		
39		<i>Trachischium fuscum</i>	Blackbelly Worm-eating Snake /Darjeeling wormsnake	चपरे सर्प / माटे सर्प / खुम्ले सर्प	LC		
40		<i>Trachischium laeve</i>	Olive oriental slender snake	चपरे सर्प / माटे सर्प / खुम्ले सर्प	LC		

41	Pseudoxenodontidae	<i>Pseudoxenodon macrops</i>	Large-eyed False Cobra	भारती भूटो गोमन	LC			
42	Pythonidae	<i>Python bivittatus</i>	Burmese Python		VU		II	
43	Sibynophiidae	<i>Sibynophis collaris</i>	Collared Black-headed snake/ Common blackhead	माले कालो टाउके सर्प	LC			
44	Typhlopidae	<i>Indotyphlops braminus</i>	Brahminy Blind Snake	अन्धा साप	LC			
45	Viperidae	<i>Gloydius himalayanus</i>	Himalayan Pit-viper	हिमाली र्गवे साप	LC			
46		<i>Protobothrops himalayanus</i>	Himalayan Pit-viper					
47		<i>Ovophis monticola</i>	Mountain Pitviper	पहाडी र्गवे साप / आँधो सर्प / छिरविरे सर्प	LC			
48		<i>Trimeresurus albolabris</i>	White-lipped Tree Viper	सेतो जिबै हर्न्यौ सर्प /पत्तार	LC			
49		<i>Trimeresurus septentrionalis</i>	Nepal Pitviper	हर्न्यौ सर्प /पत्तार	LC			
50		<i>Trimeresurus yunnanensis</i>	Yunnan Bamboo Pit Viper		LC			

Annex 13: Amphibians and their Conservation Status in ACA

SN	Family	Scientific name	Common Name	Nepali Name	IUCN	GoN	CITES	Endemism
1	Bufonidae	<i>Duttaphrynus himalayanus</i>	Himalayan Toad	हिमाली खर्से भ्यागुतो	LC			
2		<i>Duttaphrynus melanostictus</i>	Asian Common Toad	कालो काँडे खर्से भ्यागुतो	LC			
3		<i>Duttaphrynus microtympanum</i>	Southern Hill Toad		LC			
4		<i>Duttaphrynus stomaticus</i>	Marbled Toad		LC			
5	Ranidae	<i>Amolops afghanus</i>	Marbled Torrent Frog		LC			
6		<i>Amolops formosus</i>	Assam Sucker/ Cascade Frog	सिस्ने पाहा	LC			
7		<i>Amolops marmoratus</i>	Marbled Sucker/ Cascade Frog	डल्ले पानी भ्यागुतो	LC			
8		<i>Amolops mahabharatensis</i>	Mahabharat Torrent Frog		VU			Endemic to Nepal
9	Micoglossidae	<i>Euphlyctis cyanophlyctis</i>	Skipper/ Skittering Frog	अहाले भ्यागुतो	LC			
10		<i>Fejervarya limnocharis</i>	Cricket/ Paddy Frog		LC			
11		<i>Hoplobatrachus tigerinus</i>	Indian Bullfrog	सिंगारे भ्यागुतो	LC		II	
12		<i>Minervarya nepalensis</i>	Nepal Cricket Frog	नेपाली किछे भ्यागुतो	LC			
13		<i>Minervarya syhadrensis</i>	Syadra Frog		LC			
14		<i>Nanorana parkeri</i>	High Himalaya Frog	हिँउ भ्यागुतो	LC			
15		<i>Nanorana liebigii</i>	Liebig's Paa Frog	मन पाहा भ्यागुतो	LC			
16		<i>Nanorana ercepeae</i>	Torrent Paa Frog		LC			
17		<i>Nanorana rostandi</i>	Mustang Paa Frog	रोस्टानडिके पाहा	LC			
18		<i>Nanorana blanfordii</i>	Blanford's (Hill/ Paa) Frog		LC			
19	<i>Nanorana polunini</i>	Langtang Paa Frog	लाङटाङ पाहा भ्यागुतो	LC				
20	<i>Ombana sikimensis</i>	Sikkimese Frog	सिक्किमे अँसअँल भ्यागुतो	LC				
21	<i>Sparotheca maskeyi</i>	Chitwan Frog/Maskeyi Burrowing Frog		LC				
22	<i>Sparotheca breviceps</i>	Short-headed Burrowing Frog	भारती खोपिलटे भ्यागुतो	LC				
23	Megophryidae	<i>Megophrys parva</i>	Burmese Spade-footed Toad	ऋरी भ्यागुतो	DD			
24		<i>Scutiger boulengeri</i>	Boulenger's High Altitude Toad	लेखाली खर्से	LC			
25		<i>Scutiger nepalensis</i>	Nepal Lazy Toad	नेपाली लेखाली खर्से	NT			Endemic to Nepal
26	<i>Scutiger sikimensis</i>	Sikkim High Altitude Toad	सिक्किमे लेखाली खर्से	LC				
27	Microhylidae	<i>Microhyla ornata</i>	Ornate Narrow-mouth Frog	थुनुने भ्यागुतो	LC			
28		<i>Microhyla nilphamariensis</i>	Nilphamarai Narrow-mouthed Frog		LC			
29	Rhacophoridae	<i>Polypedates maculatus</i>	Spotted Tree Frog	कटकटे पाहा	LC			
30		<i>Zhangixalus smaragdinus</i>	Nepal Flying Frog		LC			

Annex: 14: Fishes and their Conservation Status in ACA

SN	Order	Family	Scientific name	Common name	Vernacular name	IUCN	GoN	CITES
1	Cypriniformes	Danionidae	<i>Barilius barila</i>	Barred Baril	Faketa chahale	LC		
2		Cyprinidae	<i>Barilius barna</i>	Barna Baril	Pati Pattaure	LC		
3			<i>Barilius bendelisis</i>	Hamilton's baril	Chiple phageta, Khasree Chala	LC		
4	Anabantiformes	Channidae	<i>Channa orientalis</i>	Walking Snakehead	Bhoti/ Chenga/Garahi	VU		
5			<i>Channa punctata</i>	Spotted snakehead	Bhote/ Garai/ Helae	LC		
6	Cypriniformes	Danionidae	<i>Danio dangila</i>		Nepti	LC		
7		Cyprinidae	<i>Garra annandalei</i>	Stone roller	Chuche/Lahare buduna	LC		
8			<i>Garra gotyla</i>	Sucker head	Dhumke buduna	LC		
9			<i>Garra lissorhynchus</i>	Khasi garra		LC		
10			<i>Garra nepalensis</i>	Garra		CR		
11	Siluriformes	Sisoridae	<i>Glyptothorax pectinopterus</i>	River cat	Karsingha	LC		
12			<i>Glyptothorax cavia</i>	Mountain caivia catfish	Vedro	LC		
13			<i>Glyptothorax telchitta</i>	Copper catfish		LC		
14			<i>Glyptothorax trilineatus</i>	Three-lined catfish		LC		
15	Cypriniformes	Cyprinidae	<i>Naziritor chelynooides</i>	Dark mahseer		VU		
16			<i>Neolissochelius hexagonolepis</i>	Copper mahseer	Katle	NT		
17	Salmoniformes	Salmonidae	<i>Oncorhynchus mykiss</i>	Rainbow trout	Rainbow trout	NE		
18	Siluriformes	Sisoridae	<i>Parachilognanis hodgarti</i>	Torrent catfish	Tel carpe	LC		
19			<i>Pseudecheneis sulcata</i>	Sucker throat catfish	Kabre	LC		
20			<i>Pseudocheneis eddsi</i>	Planet catfish		TH	Endemic to Nepal	
21			Cypriniformes	Cyprinidae	<i>Puntius conchonioides</i>	Rosy barb	Sidhre, Pothia	LC
22	<i>Puntius sophore</i>	Pool barb			Chandapothi/Pate sidhra	LC		
23	<i>Rasbora daniconius</i>	Slender Rasbora			Dedua/ Dehra	LC		
24	Nemachilidae	<i>Schistura fasciata</i>		Ray-finned fish		TH		
25	Cyprinidae	<i>Schizothorax esocinus</i>		Chirruh snow trout	Mountain trout	VU		
26		<i>Schizothorax plagiostomus</i>		Snow trout	Bucche asala	VU		
27		<i>Schizothorax progastus</i>		Dinnawah Snow trout	Cuche asala	LC		
28				<i>Schizothorax richardsonii</i>	Common snow trout	Asala	VU	

Annex: 15: Birds and their Conservation Status in ACA

SN	Order	Family	Scientific Name	Common Name	Nepali name	IUCN	NTS	GoN	CITES
1	Galliformes	Phasianidae	<i>Lerwa lerwa</i>	Snow Partridge	लरवान				
2			<i>Tetraogallus tibetanus</i>	Tibetan Snowcock	कोइमा हिउँकुखुरा				I
3			<i>Tetraogallus himalayensis</i>	Himalayan Snowcock	हिमाली हिउँकुखुरा				
4			<i>Alectoris chukar</i>	Chukar Partridge	च्याखुरा				
5			<i>Francolinus francolinus</i>	Black Francolin	कालो तित्ना				
6			<i>Perdix hodgsoniae</i>	Tibetan Partridge	हिमाली पिउरा				
7			<i>Coturnix coturnix</i>	Common Quail	बड्ढाई				
8			<i>Arborophila torqueola</i>	Hill Partridge	पिउरा				
9			<i>Arborophila rufogularis</i>	Rufous-throated Partridge	लालकण्ठे पिउरा				
10			<i>Ithaginis cruentus</i>	Blood Pheasant	चिलिमे				II
11			<i>Tragopan satyra</i>	Satyr Tragopan	मुनाल		VU	P	III
12			<i>Pucrasia macrolopha</i>	Koklass Pheasant	फोकास		VU	P	III
13			<i>Lophophorus impejanus</i>	Himalayan Monal	डाँफे				I
14			<i>Lophura leucomelanos</i>	Kalij Pheasant	कालिज				III
15			<i>Gallus gallus</i>	Red Junglefowl	लुईचे				
16	Anseriformes	Anatidae	<i>Catreus wallichii</i>	Cheer Pheasant	चीर	VU	EN	P	I
17			<i>Anser indicus</i>	Bar-headed Goose	खोया हाँस				
18			<i>Tadorna ferruginea</i>	Ruddy Shelduck	चखेवाचखेवी				
19			<i>Sibirionetta formosa</i>	Baikal Teal	बैकालगैरी				II
20			<i>Mareca strepera</i>	Gadwall	खडखडे हाँस				
21			<i>Mareca penelope</i>	Eurasian Wigeon	सिन्दुरे हाँस				
22			<i>Anas platyrhynchos</i>	Mallard	हरियो टाउके				
23			<i>Spatula clypeata</i>	Northern Shoveler	बेल्बाड्डे हाँस				
24			<i>Anas acuta</i>	Northern Pintail	सुइरोपुच्छे			EN	
25			<i>Spatula querquedula</i>	Garganey	श्वेताखीभौ			VU	
26	<i>Anas crecca</i>	Common Teal	बिजुलागैरी						
27	<i>Aythya ferina</i>	Common Pochard	कैलोटाउके हाँस		VU				
28	<i>Aythya nyroca</i>	Ferruginous Pochard	मालक हाँस			VU			
29	<i>Aythya fuligula</i>	Tufted Duck	कालीजुरे हाँस						
30	<i>Mergus merganser</i>	Common Merganser	मणितुण्डक						
31	Piciformes	Indicatoridae	<i>Indicator xanthonotus</i>	Yellow-rumped Honeyguide	चाकासुचक		EN		
32			Picidae	<i>Jynx torquilla</i>	Eurasian Wryneck	खरलाहाँचे			
33		<i>Picumnus innominatus</i>		Speckled Piculet	थाप्ले ससिया				
34		<i>Sasia ochracea</i>	White-browed Piculet	ससिया			CR		

35			<i>Leiopicus auriceps</i>	Brown-fronted Woodpecker	खैरोटाउके काष्ठकूट				
36			<i>Dendrocopos macei</i>	Fulvous-breasted Woodpecker	काष्ठकूट				
37			<i>Picoides canicapillus</i>	Grey-capped Woodpecker	फुस्रोटाउके काष्ठकूट				
38			<i>Dendrocopos hyperythrus</i>	Rufous-bellied Woodpecker	कैलोछाती काष्ठकूट				
39			<i>Dryobates cathpharius</i>	Scarlet-breasted Woodpecker	रातोछाती काष्ठकूट				
40			<i>Dendrocopos darjellensis</i>	Darjeeling Woodpecker	दाजीलिङ काष्ठकूट				
41			<i>Celeus brachyurus</i>	Rufous Woodpecker	सानो तामे लाहाचे				
42			<i>Picus chlorolophus</i>	Lesser Yellownape	सुनजुरे काठफोर				
43			<i>Chrysophlegma flavinucha</i>	Greater Yellownape	तुलो सुनजुरे काठफोर				
44			<i>Picus squamatus</i>	Scaly-bellied Woodpecker	तुलोकल्ले काठफोर				
45			<i>Picus gureini</i>	Black-naped Woodpecker	कालोगर्दने काठफोर				
46			<i>Dinopium benghalense</i>	Black-rumped Flameblack	कालोढाडे लाहाचे				
47			<i>Blythipicus pyrrhotis</i>	Bay Woodpecker	तामे लाहाचे				
48		Megalaimidae	<i>Psilopogon virens</i>	Great Barbet	न्याउली				
49			<i>Psilopogon franklinii</i>	Golden-throated Barbet	कूक्लूड				
50			<i>Psilopogon asiatica</i>	Blue-throated Barbet	कुथुकें				
51	Bucerotiformes	Upupidae	<i>Upupa epops</i>	Common Hoopoe	फाप्रे चरा				
52	Trogoniformes	Trogonidae	<i>Harpactes erythrocephalus</i>	Red-headed Trogon	रक्तशिर		EN		
53	Coraciiformes	Coraciidae	<i>Coracias benghalensis</i>	Indian Roller	ठेउवा				
54			<i>Coracias garrulus</i>	European Roller	नीलकण्ठ ठेउवा				
55		Alcedinidae	<i>Alcedo atthis</i>	Common Kingfisher	सानो माटीकोरे				
56			<i>Halcyon smyrnensis</i>	White-breasted Kingfisher	सेतोकण्ठे माटीकोरे				
57			<i>Megaceryle lugubris</i>	Himalayan Pied Kingfisher	तुलो छिरबिरे माटीकोरे				
58		Meropidae	<i>Merops orientalis</i>	Asian Green Bee-eater	मुरलीचरा				
59			<i>Merops leschenaulti</i>	Chestnut-headed Bee-eater	कटुसटाउके मुरलीचरा				
60	Cuculiformes	Cuculidae	<i>Clamator jacobinus</i>	Pied Cuckoo	जुरे कोइली				
61			<i>Hierococcyx sparverioides</i>	Large Hawk-cuckoo	वीउकुहियो				
62			<i>Hierococcyx varius</i>	Common Hawk-cuckoo	गोलसिमल				
63			<i>Cuculus micropterus</i>	Indian Cuckoo	काफल पाक्यो				
64			<i>Cuculus canorus</i>	Eurasian Cuckoo	कुक्कु कोइली				
65			<i>Cuculus saturatus</i>	Himalayan Cuckoo	पूर्वीय कोइली				
66			<i>Cuculus poliocephalus</i>	Lesser Cuckoo	सानो कोइली				
67			<i>Cacomantis passerinus</i>	Grey-bellied Cuckoo	फुस्रो सानो कोइली				
68			<i>Chrysococcyx maculatus</i>	Asian Emerald Cuckoo	हरित कोइली				
69			<i>Surniculus dicruroides</i>	Fork-tailed Drongo Cuckoo	चिब्रे कोइली				
70			<i>Eudynamys scolopacea</i>	Western Koel	कोहो कोइली				
71			<i>Phaenicophaeus tristis</i>	Green-billed Malkoha	हरित मालकोवा				
72	Psittaciformes	Psittacidae	<i>Himalayapsitta himalayana</i>	Slaty-headed Parakeet	मदना सुगा				II

73			<i>Alexandrinus krameri</i>	Rose-ringed Parakeet	कण्ठे सुगा			
74			<i>Psittacula alexanderi</i>	Red-breasted Parakeet	कागभेला सुगा			II
75	Caprimulgiformes	Apodidae	<i>Aerodramus brevirostris</i>	Himalayan Swiftlet	चींचका गौथली			
76			<i>Hirundapus caudacutus</i>	White-throated Needletail	सेतो कण्ठे गौथली			
77			<i>Tachymarptis melba</i>	Alpine Swift	बतासी गौथली			
78			<i>Apus apus</i>	Common Swift	खेरो गौथली			
79			<i>Apus pacificus</i>	Pacific Swift	पुच्छरकापे गौथली			
80			<i>Apus nipalensis</i>	House Swift	घरगौथली			
81		Caprimulgidae	<i>Caprimulgus indicus</i>	Grey Nightjar	फुस्रो चैतेचरा			
82	Strigiformes	Strigidae	<i>Otus spilocephalus</i>	Mountain Scops Owl	लेकाली उलूक			II
83			<i>Otus sunia</i>	Oriental Scops Owl	लोखके उलूक			II
84			<i>Otus lettia</i>	Collared Scops Owl	चित्री उलूक			II
85			<i>Bubo bubo</i>	Eurasian Eagle Owl	हिमाली हाप्सिलो			II
86			<i>Bubo bengalensis</i>	Rock Eagle Owl	हाप्सिलो		VU	
87			<i>Bubo nipalensis</i>	Spot-bellied Eagle Owl	महाकौशिक		EN	II
88			<i>Ketupa zeylonensis</i>	Brown Fish Owl	मलाह हुंचल		VU	II
89			<i>Strix leptogrammica</i>	Brown Wood Owl	चश्मे उलूक		VU	II
90			<i>ketupa flavipes</i>	Tawny Fish Owl	केलो मलाह हुंचल		CR	II
91			<i>Glaucidium brodiei</i>	Collared Owlet	सानो डुन्दुल			II
92			<i>Glaucidium cuculoides</i>	Asian Barred Owlet	ठूलो डुन्दुल			II
93			<i>Glaucidium radiatum</i>	Jungle Owlet	डुन्दुल			II
94			<i>Athene noctua</i>	Little Owl	हिमाली कोचलगाडे			II
95			<i>Athene brama</i>	Spotted Owlet	कोचलगाडे लाटोकोसेरो			II
96			<i>Asio otus</i>	Northern Long-eared Owl	लामकाने लाटोकोसेरो			II
97			<i>Asio flammeus</i>	Short-eared Owl	लघुकर्ण लाटोकोसेरो		VU	II
98	Columbiformes	Columbidae	<i>Columba livia</i>	Rock Dove	मलेवा			
99			<i>Columba rupestris</i>	Hill Pigeon	लेकाली मलेवा			
100			<i>Columba leuconota</i>	Snow Pigeon	हिमाली मलेवा			
101			<i>Columba palumbus</i>	Common Wood Pigeon	ठूलो वनपरेवा			
102			<i>Columba hodgsonii</i>	Speckled Wood Pigeon	छिरबिरे वनपरेवा			
103			<i>Columba pulchricollis</i>	Ashy Wood Pigeon	फुस्रो वनपरेवा			
104			<i>Streptopelia orientalis</i>	Oriental Turtle Dove	तामे हुकुर			
105			<i>Streptopelia senegalensis</i>	Laughing Dove	धुसर हुकुर			
106			<i>Streptopelia suratenis</i>	Western Spotted Dove	कुर्ले हुकुर			
107			<i>Chalcophaps indica</i>	Emerald Dove	हरिल हुकुर			
108			<i>Streptopelia decaocto</i>	Eurasian Collared Dove	कण्ठे हुकुर			
109			<i>Macropygia unchall</i>	Barred Cuckoo Dove	धके हुकुर		VU	
110			<i>Treron sphenurus</i>	Wedge-tailed Green Pigeon	पहाडी हलेसो			

111	Gruiformes	Gruidae	<i>Anthropoides virgo</i>	Demoiselle Crane	कर्याड कुरुड सारस			VU		II
112			<i>Grus grus</i>	Common Crane	लक्ष्मण सारस					II
113			<i>Grus nigricollis</i>	Black necked crane	कालो कण्ठे सारस					
114		Rallidaes	<i>Amaurornis phoenicurus</i>	White-breasted Waterhen	सिमकुबुरा					
115			<i>Gallinula chloropus</i>	Common Moorhen	बगाले सिमकुबुरा					
116			<i>Fulica atra</i>	Common Coot	मरुल					
117	Pterocliiformes	Pteroclididae	<i>Syrrhaptes tibetanus</i>	Tibetan Sandgrouse	भोटे मरुपरेवा			VU		
118	Charadriiformes	Scolopacidae	<i>Scolopax rusticola</i>	Eurasian Woodcock	ठूलो चाहा					
119			<i>Gallinago solitaria</i>	Solitary Snipe	भार्का चाहा					
120			<i>Gallinago nemoricola</i>	Wood Snipe	वन चाहा		VU	VU		
121			<i>Gallinago stenura</i>	Pintail Snipe	भारक चाहा					
122			<i>Gallinago gallinago</i>	Common Snipe	पानी चाहा					
123			<i>Tringa totanus</i>	Common Redshank	लालखुट्टे टिमटिमा					
124			<i>Tringa nebularia</i>	Common Greenshank	टिमटिमा					
125			<i>Tringa ochropus</i>	Green Sandpiper	रुख सुडसुडिया					
126			<i>Tringa glareola</i>	Wood Sandpiper	वन सुडसुडिया					
127			<i>Actitis hypoleucos</i>	Common Sandpiper	चञ्चले सुडसुडिया					
128			<i>Arenaria interpres</i>	Ruddy Turnstone	बगर ज्यामी					
129			<i>Calidris temminckii</i>	Temminck's Stint	जलरङ्क					
130		Ibidorhynchidae	<i>Ibidorhyncha struthersii</i>	Ibisbill	तिलहरी चरा			EN		
131	Charadriiformes	Recurvirostridae	<i>Himantopus himantopus</i>	Black-winged Stilt	प्रवालपाद					
132		Charadriidae	<i>Pluvialis fulva</i>	Pacific Golden Plover	प्रशान्त सर्पपी					
133			<i>Charadrius dubius</i>	Little Ringed Plover	लघु राजपुत्रिका					
134			<i>Charadrius mongolus</i>	Lesser Sandplover	मङ्गोल राजपुत्रिका					
135			<i>Vanellus vanellus</i>	Northern Lapwing	जुरे हुट्टियाउँ					
136			<i>Vanellus duvaucelii</i>	River Lapwing	खोले हुट्टियाउँ					
137			<i>Vanellus indicus</i>	Red-wattled Lapwing	हुट्टियाउँ					
138		Laridae	<i>Larus brunnicephalus</i>	Brown-headed Gull	खैरोटाउके गंगाचील			VU		
139			<i>Sterna hirundo</i>	Common Tern	वायु फ्यालफ्याले					
140	Acciptriformes	Pandionidae	<i>Pandion haliaetus</i>	Osprey	मलाहा चिल					II
141		Elanidae	<i>Elanus caeruleus</i>	Black-shouldered Kite	मुसे चिल					II
142		Accipitridae	<i>Pernis ptilorhyncus</i>	Oriental Honey-buzzard	मधुहा					II
143			<i>Milvus migrans</i>	Black-eared Kite	कालो चिल					II
144			<i>Haliaeetus leucoryphus</i>	Pallas's Fish Eagle	सानो कङ्कम चील	EN	CR			II
145			<i>Haliaeetus albicilla</i>	White-tailed Sea-eagle	कङ्कम चील			CR		I
146			<i>Gypaetus barbatus</i>	Bearded Vulture	हाडफोर गिद्ध			VU		II
147			<i>Neophron percnopterus</i>	Egyptian Vulture	सेतो गिद्ध	EN	VU			II
148			<i>Gyps bengalensis</i>	White-rumped Vulture	डङ्गर गिद्ध	CR	CR			II

149			<i>Gyps tenuirostris</i>	Slender-billed Vulture	सानो खैरो गिद्ध	CR	CR		II
150			<i>Gyps himalayensis</i>	Himalayan Griffon	हिमाली गिद्ध		VU		II
151			<i>Gyps fulvus</i>	Eurasian Griffon	खैरो गिद्ध				II
152			<i>Aegypius monachus</i>	Cinereous Vulture	राज गिद्ध		EN		II
153			<i>Sarcogyps calvus</i>	Red-headed Vulture	सुन गिद्ध	CR	EN		II
154			<i>Circaetus gallicus</i>	Short-toed Snake Eagle	सर्पहारी गिद्ध				II
155			<i>Spilornis cheela</i>	Crested Serpent Eagle	काकाकुल				II
156			<i>Circus aeruginosus</i>	Eurasian Marsh Harrier	सिम भुईँचील		VU		II
157			<i>Circus melanoleucos</i>	Pied Harrier	आब्लाक पेटाहा भुईँचील		VU		II
158			<i>Circus cyaneus</i>	Hen Harrier	चल्लाचोर भुईँचील		VU		II
159			<i>Circus macrourus</i>	Pallid Harrier	श्वेत भुईँचील		VU		II
160			<i>Circus pygargus</i>	Montagu's Harrier	मोन्टागो भुईँचील		CR		II
161			<i>Accipiter gentilis</i>	Northern Goshawk	बलाकांक्ष वनवाज				II
162			<i>Accipiter trivirgatus</i>	Crested Goshawk	कल्की बसेरा				II
163			<i>Accipiter badius</i>	Shikra	शिक्रा				II
164			<i>Accipiter virgatus</i>	Besra	बेसरा				II
165			<i>Accipiter nisus</i>	Eurasian Sparrowhawk	वनवाज				II
166			<i>Butastur teesa</i>	White-eyed Buzzard	जमल श्येनवाज				II
167			<i>Buteo refectus</i>	Himalayan Buzzard	श्येनवाज				II
168			<i>Buteo rufinus</i>	Long-legged Buzzard	लामखुट्टे श्येनवाज				II
169			<i>Buteo hemilasius</i>	Upland Buzzard	पहाडी श्येनवाज				II
170			<i>Ictinaetus malaiensis</i>	Black Eagle	द्रोणक चील				II
171			<i>Clanga hastata</i>	Indian Spotted Eagle	लघु महाचील	VU	VU		II
172			<i>Clanga clanga</i>	Greater Spotted Eagle	जीवहार महाचील	VU	VU		II
173			<i>Aquila rapax</i>	Tawny Eagle	राग महाचील	VU			II
174			<i>Aquila nipalensis</i>	Steppe Eagle	गोमायु महाचील	EN	VU		II
175			<i>Aquila heliaca</i>	Eastern Imperial Eagle)	रणमत्त महाचील	VU	CR		I
176			<i>Aquila chrysaetos</i>	Golden Eagle	सुपर्ण महाचील		VU		II
177			<i>Aquila fasciata</i>	Bonelli's Eagle	मोरङ्गी चील				II
178			<i>Hieraetus pennatus</i>	Booted Eagle	काँधेचन्द्र चील				II
179			<i>Nisaetus nipalensis</i>	Mountain Hawk-eagle	जुरेचील				II
180	Falconiformes	Falconidae	<i>Falco naumanni</i>	Lesser Kestrel	सानो बौँडाइ				II
181			<i>Falco tinnunculus</i>	Common Kestrel	बौँडाइ				II
182			<i>Falco amurensis</i>	Amur Falcon	अमुर बाज				II
183			<i>Falco columbarius</i>	Merlin	सानो बाज				II
184			<i>Falco subbuteo</i>	Eurasian Hobby	जुङ्गो चिरान्तक बाज		CR		II
185			<i>Falco severus</i>	Oriental Hobby	चिरान्तक बाज		CR		II
186			<i>Falco cherrug</i>	Saker Falcon	तोप बाज	EN	EN		II

187			<i>Falco peregrinus</i>	Peregrine Falcon	शाहीबाज					I
188	Podicipediformes	Podicipedidae	<i>Podiceps cristatus</i>	Great Crested Grebe	सिउरे डुबुल्की चरा					
189	Suliformes	Phalacrocoracidae	<i>Phalacrocorax carbo</i>	Great Cormorant	जलेवा					
190	Plecaniformes	Ardeidae	<i>Egretta garzetta</i>	Little Egret	सानो सेतोबकुल्ला					
191			<i>Bubulcus ibis</i>	Cattle Egret	बस्तु बकुल्ला					
192			<i>Ardeola grayii</i>	Indian Pond Heron	आसकोटे बकुल्ला					
193			<i>Nycticorax nycticorax</i>	Black-crowned Night Heron	बाँके बकुल्ला					
194			<i>Ixobrychus cinnamomeus</i>	Cinnamon Bittern	रातो जुनबकुल्ला			EN		
195	Ciconiformes	Ciconiidae	<i>Ciconia episcopus</i>	Asian Woollyneck	सेतो कण्ठ गरुड		NT			
196	Passeriformes	Eurylaimidae	<i>Psarisomus dalhousiae</i>	Long-tailed Broadbill	चित्रकूट					
197		Chloropseidae	<i>Chloropsis hardwickii</i>	Orange-bellied Leafbird	स्वर्णोदर हरितचरी					
198		Laniidae	<i>Lanius isabellinus</i>	Rufous-Tailed Shrike	रातो पुच्छ्र भद्राई					
199			<i>Lanius cristatus</i>	Brown Shrike	खैरो भद्राई					
200			<i>Lanius vittatus</i>	Bay-backed Shrike	चित्रक भद्राई					
201			<i>Lanius schach</i>	Long-tailed Shrike	भद्राई					
202			<i>Lanius tephronotus</i>	Grey-backed Shrike	हिमाली भद्राई					
203		Corvidae	<i>Garrulus bispecularis</i>	Plain-crowned Jay	केले वनकाग					
204			<i>Garrulus lanceolatus</i>	Black-headed Jay	कालोटाउके वनकाग					
205			<i>Urocissa flavirostris</i>	Yellow-billed Blue Magpie	सुनटुंडे लामपुच्छे					
206			<i>Urocissa erythrorhyncha</i>	Red-billed Blue Magpie	स्यालपोथरी लामपुच्छे					
207			<i>Cissa chinensis</i>	Common Green Magpie	हरियो लामपुच्छे					
208			<i>Dendrocitta vagabunda</i>	Rufous Treepie	कोकले					
209			<i>Dendrocitta formosae</i>	Grey Treepie	पहाडी कोकले					
210			<i>Nucifraga hemispila</i>	(Eurasian Nutcracker)	वनसर्प					
211			<i>Pyrrhocorax pyrrhocorax</i>	Red-billed Chough	टुङ्गा					
212			<i>Pyrrhocorax graculus</i>	Yellow-billed Chough	टेमु					
213			<i>Corvus splendens</i>	House Crow	घर काग					
214			<i>Corvus macrorhynchos</i>	Large-billed Crow	कालो काग					
215			<i>Corvus corax</i>	Northern Raven	राजा काग					
216		Artamidae	<i>Artamus fuscus</i>	Ashy Woodswallow	भियुन					
217		Oriolidae	<i>Oriolus kundoo</i>	(Indian Golden Oriole)	गाजले सुनचरी					
218			<i>Oriolus traillii</i>	Maroon Oriole	घनरक्त सुनचरी					
219		Campephagidae	<i>Coracina macei</i>	Indian Cuckooshrike	लटुशक विरहीचरी					
220			<i>Lalage melaschistos</i>	Black-winged Cuckooshrike	कालो विरहीचरी					
221			<i>Pericrocotus solaris</i>	Grey-chinned Minivet	नीनीकण्ठे रानीचरी					
222			<i>Pericrocotus ethologus</i>	Long-tailed Minivet	लामपुच्छे रानीचरी					
223			<i>Pericrocotus brevirostris</i>	Short-billed Minivet	लघुटुंडे रानीचरी					
224			<i>Pericrocotus flammeus</i>	Scarlet Minivet	रानीचरी					

225	Vangidae	<i>Hemipus picatus</i>	Bar-winged Flycatcher-Shrike	आसकोटे चरी				
226	Stenostiridae	<i>Chelidorhynch hypoxantha</i>	Yellow-bellied Fantail	पहेलो मारुनीचरी				
227		<i>Culicicapa ceylonensis</i>	Grey-headed Canary Flycatcher	चञ्चले अर्जुनक				
228	Rhipiduridae	<i>Rhipidura albicollis</i>	White-throated Fantail	नक्कले मारुनीचरी				
229	Dicruridae	<i>Dicrurus macrocercus</i>	Black Drongo	कालो चिवे				
230		<i>Dicrurus leucophaeus</i>	Ashy Drongo	ढेवासो चिवे				
231		<i>Dicrurus aeneus</i>	Bronzed Drongo	सानो चिवे				
232		<i>Dicrurus remifer</i>	Lesser Racquet-tailed Drongo	भङ्गराज चिवे				
233		<i>Dicrurus hottentottus</i>	Hair-crested Drongo	केशराज चिवे				
234	Monarchidae	<i>Terpsiphone paradisi</i>	Indian Paradise-flycatcher	स्वर्गचरी				
235	Bombycillidae	<i>Bombycilla garrulus</i>	Bohemian Waxwing	हिमाली मूकचरी				
236	Cinclidae	<i>Cinclus cinclus</i>	White-throated Dipper	सेतो कण्ठे बञ्जुला				
237		<i>Cinclus pallasii</i>	Brown Dipper	खैरो बञ्जुला				
238	Turdidae	<i>Geokichla wardii</i>	Pied Thrush	कस्तूरा चाँचर				
239		<i>Geokichla citrina</i>	Orange-headed Thrush	सुन्तले चाँचर				
240		<i>Zoothera mollissima</i>	Alpine Thrush	सादा ढाडे चाँचर				
241		<i>Zoothera dixonii</i>	Long-tailed Thrush	लामपुच्छे चाँचर				
242		<i>Zoothera dauma</i>	Eurasian Scaly Thrush	गोब्रे चाँचर				
243		<i>Zoothera monticola</i>	Longbilled Ground Thrush	लामोटुडे चाँचर				
244		<i>Zoothera marginata</i>	(Darksided Ground Thrush)	लामोटुडे सानो चाँचर				
245		<i>Turdus unicolor</i>	Tickell's Thrush	फुसे चाँचर				
246		<i>Turdus albocinctus</i>	White-collared Blackbird	कण्ठे चाँचर				
247		<i>Turdus boulboul</i>	Grey-winged Blackbird	मदना चाँचर		VU		
248		<i>Turdus (merula) maximus</i>	Tibetan Blackbird	भोटे चाँचर				
249		<i>Turdus rubrocanus</i>	Chestnut Thrush	केलो चाँचर				
250		<i>Turdus ruficollis</i>	Rufous-throated Thrush	केलोकण्ठे चाँचर				
251		<i>Turdus atrogularis</i>	Black-throated Thrush	कालोकण्ठे चाँचर				
252		<i>Turdus eunomus</i>	Dusky Thrush	चटक चाँचर				
253		<i>Turdus viscivorus</i>	Mistle Thrush	हड्चुर चाँचर				
254		<i>Grandala coelicolor</i>	Grandala	हिमाली ग्राण्डला				
255		<i>Turdus naumanni</i>	Naumanns Thrush	गारुमुहर चाँचर				
256	Muscicapidae	<i>Monticola cinclorhynchus</i>	Blue-capped Rock Thrush	सानो हजारा चाँचर				
257		<i>Monticola rufiventris</i>	Chestnut-bellied Rock Thrush	हजारा चाँचर				
258		<i>Monticola solitarius</i>	Blue Rock Thrush	उमा चाँचर				
259		<i>Myophonus caeruleus</i>	Blue Whistling Thrush	कल्वौडे				
260		<i>Heteroxenicus stellatus</i>	Gould's Shortwing	थोप्ले लघुपङ्ख				
261		<i>Brachypteryx cruralis</i>	Himalayan Shortwing	नीलो लघुपङ्ख				
262		<i>Muscicapa sibirica</i>	Dark-sided Flycatcher	ढेवासे अर्जुनक				

263		<i>Muscicapa dauurica</i>	Asian Brown Flycatcher	धूसर अर्जुनक				
264		<i>Ficedula ruficauda</i>	Rusty-tailed Flycatcher	केलोपुच्छे अर्जुनक				
265		<i>Muscicapa ferruginea</i>	Ferruginous Flycatcher	केलो अर्जुनक				
266		<i>Ficedula erithacus</i>	Slaty-backed Flycatcher	नीलढाडे अर्जुनक				
267		<i>Ficedula strophitata</i>	Rufous-gorgeted Flycatcher	सेतो टिके अर्जुनक		VU		
268		<i>Ficedula albicilla</i>	Red-throated Flycatcher	लालकण्ठे अर्जुनक				
269		<i>Anthipes monileger</i>	White-gorgeted Flycatcher	सेतोकण्ठे अर्जुनक				
270		<i>Ficedula hyperythra</i>	Snowy-browed Flycatcher	सेतोआंखीभौ अर्जुनक				
271		<i>Ficedula westermanni</i>	Little Pied Flycatcher	श्यामश्वेत अर्जुनक				
272		<i>Ficedula superciliaris</i>	Ultramarine Flycatcher	नीलश्वेत अर्जुनक				
273		<i>Ficedula tricolor</i>	Slaty-blue Flycatcher	टिकटिके अर्जुनक				
274		<i>Eumyias thalassina</i>	Verditer Flycatcher	नीलतुथो अर्जुनक				
275		<i>Niltava grandis</i>	Large Niltava	ठूलो निलतभा				
276		<i>Niltava macgrigoriae</i>	Small Niltava	सानो निलतभा				
277		<i>Niltava sundara</i>	Rufous-bellied Niltava	सुन्दर निलतभा				
278		<i>Cyornis unicolor</i>	Pale Blue Flycatcher	नीलगगन अर्जुनक				
279		<i>Ficedula hodgsoni</i>	Pygmy Blue Flycatcher	लघु अर्जुनक				
280		<i>Calliope calliope</i>	Siberian Rubythroat	साइबेरियाली रातोकाण्ठ				
281		<i>Calliope pectoralis</i>	Himalayan Rubythroat	हिमाली रातोकाण्ठ				
282		<i>Luscinia svecica</i>	Bluethroat	भूमीचर नीलकाण्ठ				
283		<i>Larvivora cyane</i>	Siberian Blue Robin	साइबेरियाली निलो रबिन				
284		<i>Larvivora brunnea</i>	Indian Blue Robin	निलो रबिन				
285		<i>Tarsiger (cyanurus) rufilatus</i>	Himalayan Bush Robin	सुन्तलाकोखे रबिन				
286		<i>Tarsiger chrysaeus</i>	Golden Bush Robin	सुनौलो रबिन				
287		<i>Tarsiger indicus</i>	White-browed Bush Robin	सेतोआंखीभौ रबिन				
288		<i>Tarsiger hyperythrus</i>	Rufous-breasted Bush Robin	केलेछाती रबिन				
289		<i>Copsychus saularis</i>	Oriental Magpie Robin	धोविनी चरा				
290		<i>Phoenicurus erythronotus</i>	Eversmann's Redstart	केलोढाडे खञ्जरी				
291		<i>Phoenicurus coeruleocephalus</i>	Blue-capped Redstart	धोविनी खञ्जरी				
292		<i>Phoenicurus ochruros</i>	Black Redstart	हेयापी खञ्जरी				
293		<i>Phoenicurus hodgsoni</i>	Hodgson's Redstart	तनकम्प खञ्जरी				
294		<i>Phoenicurus schisticeps</i>	White-throated Redstart	सेतोकण्ठे खञ्जरी				
295		<i>Phoenicurus erythrogastrus</i>	White-winged Redstart	सेतोपंखे खञ्जरी				
296		<i>Phoenicurus frontalis</i>	Blue-fronted Redstart	नीलटाउके खञ्जरी				
297		<i>Phoenicurus leucocephalus</i>	White-capped Water-redstart	सेतोटाउके जलखञ्जरी				
298		<i>Phoenicurus fuliginosus</i>	Plumbeous Water-redstart	नीलाम्बर जलखञ्जरी				
299		<i>Luscinia phaenicuroides</i>	White-bellied Redstart	सेतोपेटे खञ्जरी				
300		<i>Myiomela leucura</i>	Whitetailed Blue Robin	सेतोपुच्छे रबिन				

301		<i>Enicurus scouleri</i>	Little Forktail	गंगा खोलेघोविनी				
302		<i>Enicurus immaculatus</i>	Black-backed Forktail	कालोढाडे खोलेघोविनी				
303		<i>Enicurus schistaceus</i>	Slaty-backed Forktail	फुस्रोढाडे खोलेघोविनी				
304		<i>Enicurus maculatus</i>	Spotted Forktail	थोप्ले खोलेघोविनी				
305		<i>Saxicola torquatus</i>	Common Stonechat	भेकभेक भ्याप्सी				
306		<i>Oenanthe picata</i>	Variable Wheatear	बहुरूपी भुईरविन				
307		<i>Saxicola caprata</i>	Pied Bushchat	त्रिबिच				
308		<i>Saxicola ferreus</i>	Grey Bushchat	हिमाली भ्याप्सी				
309		<i>Oenanthe chrysopygia</i>	Rufous-tailed Wheatear	केलोपुच्छे भुईरविन				
310		<i>Oenanthe deserti</i>	Desert Wheatear	कालोकण्ठे भुईरविन				
311		<i>Oenanthe isabellina</i>	Isabelline Wheatear	फुस्रो भुईरविन				
312		<i>Muscicapa striata</i>	Spotted flycatcher	तालुस अजुयनक				
313	Sturnidae	<i>Sturnia malabarica</i>	Chestnut-tailed Starling	फुस्रोटाउके सारो				
314		<i>Sturnus pagodarum</i>	Brahminy Starling	जुरे सारो				
315		<i>Pastor roseus</i>	Rosy Starling	गुलाफी सारो				
316		<i>Sturnus vulgaris</i>	European Starling	कालो सारो				
317		<i>Spodiopsar cineraceus</i>	White Cheeked Starling	फुस्रो सारो				New to Nepal
318		<i>Acridotheres tristis</i>	Common Myna	डाइग्रे रूपी				
319		<i>Acridotheres fuscus</i>	Jungle Myna	वन रूपी				
320	Sittidae	<i>Sitta cinnamoventris</i>	Chestnut-bellied Nuthatch	कटुसे मट्टा				
321		<i>Sitta himalayensis</i>	White-tailed Nuthatch	पहाडी मट्टा				
322		<i>Sitta frontalis</i>	Velvet-fronted Nuthatch	मखमली मट्टा				
323		<i>Tichodroma muraria</i>	Wallcreeper	मुरारी पुतलीचरा				
324	Certhiidae	<i>Certhia hodgsoni</i>	Hodgson's Treecreeper	सेतोपेटे छेपारेचरी				
325		<i>Certhia himalayana</i>	Bar-tailed Treecreeper	पुच्छरपाटे छेपारेचरी				
326		<i>Certhia nipalensis</i>	Rusty-flanked Treecreeper	केलोकाखे छेपारेचरी				
327		<i>Certhia discolor</i>	Sikkim Treecreeper	खैरो छेपारेचरी				
328	Troglodytidae	<i>Troglodytes troglodytes</i>	Northern Wren	चित्री				
329	Paridae	<i>Pseudopodoces humilis</i>	Groundpecker/Ground tit	भुइफोर				
330		<i>Cephalopyrus flammiceps</i>	Fire-capped Tit	रक्तशिर चिचिलकोटे				
331		<i>Periparus rufonuchalis</i>	Rufous-Naped Tit	केलोगर्दने चिचिलकोटे				
332		<i>Periparus rubidiventris</i>	Rufous-vented Tit	सेतोगर्दने चिचिलकोटे				
333		<i>Periparus ater</i>	Coal Tit	सानो फुसे चिचिलकोटे				
334		<i>Lophophanes dichrous</i>	Grey-crested Tit	फुस्रो जुरे चिचिलकोटे				
335		<i>Parus major</i>	Great Tit	चिचिलकोटे				
336		<i>Parus monticolus</i>	Green-Backed Tit	हरियो चिचिलकोटे				
337		<i>Machlolophus xanthogenys</i>	Black-lored tit	पाण्डु चिचिलकोटे				
338		<i>Sylviparus modestus</i>	Yellow-browed Tit	चंदुवा चिचिलकोटे				

339		Aegithalidae	<i>Aegithalos iredalei</i>	Red-headed Tit	कालीकण्ठे राजर्चाचिक्कोट				
340			<i>Aegithalos niveogularis</i>	White-throated Tit	सेतोकण्ठे राजर्चाचिक्कोट				
341			<i>Aegithalos iouschistos</i>	Rufous-fronted Tit	कैलोपेटे राजर्चाचिक्कोट				
342			<i>Leptopoecile sophiae</i>	White-browed Tit Warbler	बैजनी फिस्टो				
343		Hirundinidae	<i>Riparia riparia</i>	Sand Martin	गलाहारी भित्तेगौथली				
344			<i>Riparia chinesis</i>	Plain Martin	भित्तेगौथली				
345			<i>Ptyonoprogne rupestris</i>	Eurasian Crag Martin	नहिकुटी गौथली				
346			<i>Hirundo rustica</i>	Barn Swallow	घर गौथली				
347			<i>Cecropis daurica</i>	Red-rumped Swallow	गेरुकटी गौथली				
348			<i>Delichon urbicum</i>	Common House Martin	भीरगौथली				
349			<i>Delichon dasypus</i>	Asian House Martin	एशियाली भीरगौथली				
350			<i>Delichon nipalense</i>	Nepal House Martin	नेपाल भीरगौथली				
351		Regulidae	<i>Regulus regulus</i>	Goldcrest	स्वर्णचूल फिस्टो				
352		Pycnonotidae	<i>Pycnonotus striatus</i>	Striated Bulbul	धर्के जुरेली				
353			<i>Pycnonotus leucogenys</i>	Himalayan Bulbul	जुल्के जुरेली				
354			<i>Pycnonotus cafer</i>	Red-vented Bulbul	जुरेली				
355			<i>Hemixos flavala</i>	Ashy Bulbul	फुसोपेटे जुरेली				
356			<i>Ixos mccllellandii</i>	Mountain Bulbul	कैलोपेटे जुरेली				
357			<i>Hypsipetes leucocephalus</i>	Himalayan Black Bulbul	बाख्रे जुरेली				
358		Cisticolidae	<i>Prinia criniger</i>	Striated Prinia	सुया घाँसेफिस्टो				
359			<i>Orthotomus sutorius</i>	Common Tailorbird	पातसिउने फिस्टो				
360		Zosteropidae	<i>Zosterops palpebrosus</i>	Indian White-Eye	कांकीर				
361			<i>Yuhina flavicollis</i>	Whiskered Yuhina	जुगे जुरेचरा				
362			<i>Yuhina gularis</i>	Stripe-throated Yuhina	थुपलकल्की जुरेचरा				
363			<i>Yuhina occipitalis</i>	Rufous-vented Yuhina	खेरो जुरेचरा				
364		Scotocercidae	<i>Cettia castaneocoronata</i>	Chestnut-headed Tesia	रातो टाउके टिसिया				
365			<i>Tesia cyaniventer</i>	Yellow-browed Tesia	फुसोपेटे टिसिया				
366			<i>Cettia major</i>	Chestnut-crowned Bush Warbler	ठुलो रातोटाउके भाडीफिस्टो				
367			<i>Horornis flavolivaceus</i>	Aberrant Bush Warbler	पीतहरित भाडीफिस्टो				
368			<i>Horornis brunnescens</i>	Hume's Bush Warbler	पीतेदर भाडीफिस्टो				
369			<i>Cettia brunnifrons</i>	Grey-sided Bush Warbler	रातो टाउके भाडीफिस्टो				
370			<i>Abroscopus schisticeps</i>	Black-faced Warbler	गाजले फिस्टो				
371			<i>Abroscopus superciliaris</i>	Yellow-bellied Warbler	पहँलोपेटे फिस्टो				
372		Locustellidae	<i>Locustella kashmirensis</i>	Himalayan Grasshopper Warbler	हिमाली मुर्सेफिस्टो				
373		Acrocephalidae	<i>Acrocephalus dumetorum</i>	Blyth's Reed Warbler	ट्याकट्याके				
374			<i>Iduna caligata</i>	Booted Warbler	मोटोखुट्टे फिस्टो				
375		Phylloscopidae	<i>Phylloscopus tristis</i>	Siberian Chiffchaff	चिपचिपे फिस्टो				
376			<i>Phylloscopus fulgiventis</i>	Smoky Warbler	ढेवासे फिस्टो				

377		<i>Phylloscopus affinis</i>	Tickell's Leaf Warbler	पीतोदर फिस्टो				
378		<i>Phylloscopus griseolus</i>	Sulphur-bellied Warbler	पीतोदर दुङ्गाफिस्टो				
379		<i>Phylloscopus pulcher</i>	Buff-barred Warbler	सुन्तलेरेखी फिस्टो				
380		<i>Phylloscopus maculipennis</i>	Ashy-throated Warbler	फुस्रोकोठे फिस्टो				
381		<i>Phylloscopus chloronotus</i>	Lemon-Rumped Warbler	पीतकटी फिस्टो				
382		<i>Phylloscopus humei</i>	Hume's Leaf Warbler	चञ्चले फिस्टो				
383		<i>Phylloscopus inornatus</i>	Yellow-browed Warbler	हरित फिस्टो				
384		<i>Phylloscopus trochiloides</i>	Greenish Warbler	जीवल फिस्टो				
385		<i>Phylloscopus magnirostris</i>	Large-billed Leaf Warbler	ठूलोठूडे फिस्टो				
386		<i>Phylloscopus occipitalis</i>	Western Crowned Warbler	ठूलो तालुधकें फिस्टो				
387		<i>Phylloscopus reguloides</i>	Blyth's Leaf Warbler	तालुधकें फिस्टो				
388		<i>Phylloscopus burkii</i>	Green-crowned Wabbler	सुनचस्मे फिस्टो				
389		<i>Phylloscopus whistleri</i>	Whistler's Warbler	सुसेली फिस्टो				
390		<i>Phylloscopus xanthoschistos</i>	Grey-hooded Warbler	तुमूलकारी फिस्टो				
391		<i>Phylloscopus poliogenys</i>	Grey-cheeked Leaf Warbler	सेतोचश्मे फिस्टो				
392		<i>Phylloscopus castaniceps</i>	Chestnut-crowned Warbler	रातोटाउके फिस्टो				
393	Leiotrichidae	<i>Pterorhinus albogularis</i>	White-throated Laughingthrush	सोइरने तोरीगांडा				
394		<i>Garrulax leucolophus</i>	White-crested Laughingthrush	हिउँजुरे तोरीगांडा				
395		<i>Garmmatoptila striata</i>	Striated Laughingthrush	कल्की तोरीगांडा			VU	
396		<i>Lanthocincla rufogularis</i>	Rufous-chinned Laughingthrush	केलोकोठे तोरीगांडा				
397		<i>Lanthocincla ocellatus</i>	Spotted Laughingthrush	मुदाले तोरीगांडा				
398		<i>Pterorhinus caerulatus</i>	Grey-sided Laughingthrush	फुस्रोकोखे तोरीगांडा				
399		<i>Trochalopteron lineatum</i>	Streaked Laughingthrush	छिकें तोरीगांडा				
400		<i>Trochalopteron squamatus</i>	Blue-winged Laughingthrush	नीलपंखे तोरीगांडा				
401		<i>Trochalopteron subunicolor</i>	Scaly Laughingthrush	कत्ले तोरीगांडा				
402		<i>Trochalopteron variegatus</i>	Variegated Laughingthrush	टिकीयुरी तोरीगांडा				
403		<i>Trochalopteron affinis</i>	Black-faced Laughingthrush	कानटाटे तोरीगांडा				II
404		<i>Trochalopteron erythrocephalus</i>	Chestnut-crowned Laughingthrush	कटुसटाउके तोरीगांडा				
405		<i>Acanthoptila nipalensis</i>	Spiny Babbler	काँडे भ्याकुर			EN	Endemic to Nepal
406		<i>Leiothrix lutea</i>	Red-billed Leiothrix	रोचिण्णु मिसिया				
407		<i>Cutia nipalensis</i>	Himalayan Cutia	कुटिया				
408		<i>Actinodura egertoni</i>	Rusty - fronted Barwing	केलोतालु वनचाहर				
409	<i>Sibia nipalensis</i>	Hoary-throated Barwing	वनचाहर			CR		
410	<i>Siva cyanouoptera</i>	Blue-winged Minla	नीलपङ्ख मिन्ला					
411	<i>Chrysominla strigula</i>	Bar-throated Minla	शिव मिन्ला					
412	<i>Minla ignotincta</i>	Red-tailed Minla	लालपुच्छे मिन्ला					
413	Timaliidae	<i>Erythrogeus erythrogeus</i>	Rusty-cheeked Scimitar Babbler	पाल्कोटे				
414		<i>Pomatorhinus schisticeps</i>	White-browed Scimitar Babbler	फुस्रो टाउके पाल्कोटे				

415		<i>Pomatorhinus ruficollis</i>	Streak-breasted Scimitar Babbler	छातीघसेँ पाल्कोटे			EN	
416		<i>Pomatorhins superciliaris</i>	Slender-billed Scimitar Babbler	लामाटुंडे पाल्कोटे				
417		<i>Stachyris pyrrhops</i>	Black-chinned Babbler	कालोचिउंडे वनभ्याकुर				
418		<i>Cyanoderma chrysaeum</i>	Golden Babbler	निगाले वनभ्याकुर				
419		<i>Stachyris nigriceps</i>	Grey-throated Babbler	फुस्रो कण्ठे वनभ्याकुर				
420	Pnoepygidae	<i>Pnoepyga albiventer</i>	Scaly-breasted Cupwing	कल्ले डिकुरेभ्याकुर				
421		<i>Pnoepyga immaculata</i>	Nepal Cupwing	नेपाल डिकुरेभ्याकुर				
422		<i>Pnoepyga pusilla</i>	Pygmy Cupwing	मुरालिडे डिकुरेभ्याकुर				
423	Vireonidae	<i>Pteruthius rufiventer</i>	Black-headed Shrike Babbler	कालोटाउके भद्रईभ्याकुर				
424		<i>Pteruthius aeralatus</i>	White-browed Shrike Babbler	लालपङ्खे भद्रईभ्याकुर				
425		<i>Pteruthius xanthochlorus</i>	Green Shrike Babbler	हरित भद्रईभ्याकुर				
426		<i>Pteruthius melanotis</i>	Black-eared Shrike Babbler	गाजले भद्रईभ्याकुर				
427		<i>Alcippe chrysotis</i>	Golden-breasted Fulvetta	स्वर्णवक्ष फुलबुङ्गा				
428		<i>Alcippe castaneiceps</i>	Rufous-winged Fulvetta	कटुसटाउके फुलबुङ्गा				
429		<i>Alcippe vinipectus</i>	White-browed Fulvetta	पीतनयन फुलबुङ्गा				
430	Alcippeidae	<i>Alcippe nipalensis</i>	Nepal Fulvetta	नेपाल फुलबुङ्गा				
431		<i>Yuhina zantholeuca</i>	White-bellied Yuhina	सेतोपेटे जुरेचरा				
432	Paradoxornithidae	<i>Myzornis pyrrhoura</i>	Fire-tailed Myzornis	हरित हिमसुधा				
433		<i>Heterophasia annectans</i>	Rufous-backed Sibia	सानो सिबिया				
434		<i>Heterophasia capistrata</i>	Rufous Sibia	सिबिया				
435		<i>Paradoxornis aemodium</i>	Great Parrotbill	चादे बाँदरचरी			VU	
436		<i>Paradoxornis unicolor</i>	Brown Parrotbill	खैरो बाँदरचरी			VU	
437		<i>Suthora fulvifrons</i>	Fulvous Parrotbill	निगाले बाँदरचरी			VU	
438		<i>Suthora nipalensis</i>	Black-throated Parrotbill	नेपाल बाँदरचरी				
439	Sylviidae	<i>Curruca curruca</i>	Lesser Whitethroat	श्वेतकण्ठ फिस्टो				
440	Alaudidae	<i>Calandrella Dukhunensis</i>	Mangolian Short-toed Lark	वर्तिका भारद्वाज				
441		<i>Calandrella acutirostris</i>	Hume's Lark	पहेलोटुंडे भारद्वाज				
442		<i>Alauda gulgula</i>	Oriental Skylark	ब्राहमीचटी				
443		<i>Eremophila alpestris</i>	Horned Lark	जुगे भारद्वाज				
444	Dicaeidae	<i>Dicaeum melanozanthum</i>	Yellow-bellied Flowerpecker	पीतोदर पुष्पकोकिल				
445		<i>Dicaeum ignipectus</i>	Fire-breasted Flowerpecker	अग्निवक्ष पुष्पकोकिल				
446	Nectariniidae	<i>Cinnyris asiaticus</i>	Purple Sunbird	कालो बुङ्गेचरा				
447		<i>Aethopyga gouldiae</i>	Gould's Sunbird	कान्ति बुङ्गेचरा				
448		<i>Aethopyga nipalensis</i>	Green-tailed Sunbird	नेपाल बुङ्गेचरा				
449		<i>Aethopyga saturata</i>	Black-throated Sunbird	कालीकण्ठ बुङ्गेचरा				
450		<i>Aethopyga siparaja</i>	Crimson Sunbird	सिपराजा				
451		<i>Aethopyga ignicauda</i>	Fire-tailed Sunbird	लामपुच्छे बुङ्गेचरा				
452	Passeridae	<i>Passer domesticus</i>	House Sparrow	घर भंगेरा				

453			<i>Passer cinnamomeus</i>	Russet Sparrow	केलो भंगेरा				
454			<i>Passer montanus</i>	Eurasian Tree Sparrow	रुख भंगेरा				
455			<i>Montifringilla adamsi</i>	Black-winged Snowfinch	चाँदीपंखे हिउँचरी				
456			<i>Onychostruthus taczanowskii</i>	White-rumped Snowfinch	सेतोढाडे हिउँचरी				
457			<i>Pyrgilauda ruficollis</i>	Rufous-necked Snowfinch	केलोगर्दने हिउँचरी				
458			<i>Pyrgilauda blanfordi</i>	Plain-backed Snowfinch	कालीकण्ठे हिउँचरी				
459		Motacillidae	<i>Motacilla alba</i>	White Wagtail	सेतो टिकटिके				
460			<i>Dendronanthus indicus</i>	Forest Wagtail	वन टिकटिके				
461			<i>Motacilla maderaspatensis</i>	White-browed Wagtail	खोले टिकटिके				
462			<i>Motacilla citreola</i>	Citrine Wagtail	बेसारे टिकटिके				
463			<i>Motacilla flava</i>	Yellow Wagtail	पहेलो टिकटिके				
464			<i>Motacilla cinerea</i>	Grey Wagtail	फुस्रो टिकटिके				
465			<i>Anthus richardi</i>	Richard's Pipit	हिउँदे चुइयाँ				
466			<i>Anthus rufulus</i>	Paddyfield Pipit	आली चुइयाँ				
467			<i>Anthus sylvanus</i>	Upland Pipit	पहाडी चुइयाँ				
468			<i>Anthus godlewskii</i>	Blyth's Pipit	छोटोटूडे चुइयाँ				
469			<i>Anthus trivialis</i>	Tree Pipit	बगाले चुइयाँ				
470			<i>Anthus hodgsoni</i>	Olive-backed Pipit	रुख चुइयाँ				
471			<i>Anthus cervinus</i>	Red-throated Pipit	लालकण्ठे चुइयाँ				
472			<i>Anthus roseatus</i>	Rosy Pipit	गुलाफीकाण्ठे चुइयाँ				
473			<i>Anthus spinoletta</i>	Water Pipit	जल चुइयाँ				
474		Prunellidae	<i>Prunella collaris</i>	Alpine Accentor	हिमाली लेकचरी				
475			<i>Prunella himalayana</i>	Rufous-streaked Accentor	अल्टरी लेकचरी				
476			<i>Prunella rubeculoides</i>	Robin Accentor	रविन लेकचरी				
477			<i>Prunella strophia</i>	Rufous-breasted Accentor	मुसे लेकचरी				
478			<i>Prunella fulvescens</i>	Brown Accentor	गाजले लेकचरी				
479			<i>Prunella immaculata</i>	Maroon-backed Accentor	पाण्डुनयनी लेकचरी				
480		Ploceidae	<i>Ploceus philippinus</i>	Baya Weaver	बया तोपचरा				
481		Estrildidae	<i>Lonchura striata</i>	White-rumped Munia	सेतोढाडे मुनियाँ				
482			<i>Lonchura punctulata</i>	Scaly-breasted Munia	कोटेरो मुनियाँ				
483			<i>Lonchura malacca</i>	Black-headed Munia	कालो टाउके मुनियाँ				
484		Fringillidae	<i>Fringilla coelebs</i>	Common Chaffinch	चित्रकचरी				
485			<i>Fringilla montifringilla</i>	Brambling	कालो टाउके चित्रकचरी				
486			<i>Serinus pusillus</i>	Red-fronted Serin	लालमाथा सिरिन				
487			<i>Spinus thibetana</i>	Tibetan Siskin	भोट सिस्कीन			VU	
488			<i>Chloris spinoides</i>	Yellow-breasted Greenfinch	गाजले पीतचरी				
489			<i>Carduelis caniceps</i>	Eastern Goldfinch	रक्तमुहार पीतचरी				
490			<i>Linaria flavirostris</i>	Twite	सानोटुडे लिनेट				

491		<i>Leucosticte nemoricola</i>	Plain Mountain Finch	तितुभंगेरा				
492		<i>Leucosticte brandti</i>	Brandt's Mountain Finch	हेवासेटाउके तितुभंगेरा				
493		<i>Callacanthus burtoni</i>	Spectacled Finch	चश्मेचरी				
494		<i>Bucanetes mongolicus</i>	Mongolian Finch	मङ्गोल तितु				
495		<i>Agraphospiza rubescens</i>	Blanford's Rosefinch	सानो सिम्रिक तितु				
496		<i>Procarduelis nipalensis</i>	Dark-breasted Rosefinch	नेपाल तितु				
497		<i>Carpodacus erythrinus</i>	Common Rosefinch	अमोगा तितु				
498		<i>Carpodacus pulcherrimus</i>	Beautiful Rosefinch	फिबी तितु				
499		<i>Carpodacus rodochroa</i>	Pink-browed Rosefinch	रातो फिबी तितु				
500		<i>Carpodacus vinaceus</i>	Vinaceous Rosefinch	लालवदन तितु				
501		<i>Carpodacus edwardsii</i>	Dark-rumped Rosefinch	कुमधर्क तितु				
502		<i>Carpodacus rodopeplus</i>	Spot-winged Rosefinch	पङ्खधोप्ले तितु				
503		<i>Carpodacus thura</i>	Himalayan White-browed Rosefinch	पङ्खधोप्ले ठूलोतितु				
504		<i>Carpodacus rubicilloides</i>	Streaked Rosefinch	धर्क राजतितु				
505		<i>Carpodacus rubicilla</i>	Great Rosefinch	राजतितु				
506		<i>Carpodacus puniceus</i>	Red-fronted Rosefinch	रक्तशीर्ष राजतितु				
507		<i>Carpodacus subhimachala</i>	Crimson-browed Finch	सिम्रिक राजतितु				
508		<i>Carpodacus sipahi</i>	Scarlet Finch	सिपाही तितु				
509		<i>Loxia curvirostra</i>	Red Crossbill	केचीटूडे				
510		<i>Pyrrhula nipalensis</i>	Brown Bullfinch	खैरो टिर्जेटिउं				
511		<i>Pyrrhula erythrocephala</i>	Red-headed Bullfinch	रातोटाउके टिर्जेटिउं				
512		<i>Mycerobas icteroides</i>	Black-and-yellow Grosbeak	पीतकृष्ण महाटूंड				
513		<i>Mycerobas affinis</i>	Collared Grosbeak	सुन्तलेगर्दन महाटूंड				
514		<i>Mycerobas melanozanthos</i>	Spot-winged Grosbeak	पखधोप्ले महाटूंड				
515		<i>Mycerobas carnipes</i>	White-winged Grosbeak	धूपी महाटूंड				
516		<i>Pyrrhoptes epauletta</i>	Gold-naped Finch	सुन्तलेटाउके कालो तितु			VU	
517	Emberizidae	<i>Melophus lathamii</i>	Crested Bunting	जुरे बगेडी				
518		<i>Emberiza citrinella</i>	Yellowhammer	सुन बगेडी				
519		<i>Emberiza leucocephalos</i>	Pine Bunting	सल्ले बगेडी				
520		<i>Emberiza cia</i>	Rock Bunting	शीला बगेडी				
521		<i>Emberiza fucata</i>	Chestnut-eared Bunting	कानकेले बगेडी				
522		<i>Emberiza pusilla</i>	Little Bunting	लघु बगेडी			VU	
523		<i>Emberiza rustica</i>	Rustic Bunting	चित्राशिर बगेडी		VU		

Annex:16: Butterfly in ACA

SN	Family	Scientific name	Common Name	IUCN	GoN	CITES
1	Papilionidae	<i>Pachliopta aristolochiae</i> (Fabricius, 1775)	Common Rose			
2		<i>Troides aeacus</i> (C. & R. Felder, 1860)	Golden Birdwing	LC		II
3		<i>Troides helena cerberus</i> (Linnaeus, 1758)	Common Birdwing	LC		II
4		<i>Byasa dasarada ravana</i> (Moore, 1858)	Great Windmill			
5		<i>Byasa latreillei</i> (Donovan, 1826)	Rose Windmill			
6		<i>Byasa plutonius pembertoni</i> (Moore, 1902)	Chinese Windmill			
7		<i>Byasa polyeuctes letincius</i> (Fruhstorfer, 1908)	Common Windmill			
8		<i>Papilio agestor</i> Gray, 1831	Tawny Mime			
9		<i>Papilio alcmenor alcmenor</i> C. & R. Felder, [1864]	Redbreast			
10		<i>Papilio arcturus</i> Westwood, 1842	Blue Peacock			
11		<i>Papilio bianor ganesa</i> Moore, 1842	Common Peacock			
12		<i>Papilio bootes janaka</i> Moore, 1857	Tailed Redbreast			
13		<i>Papilio clytia</i> Linnaeus, 1758	Common Mime			
14		<i>Papilio demoleus</i> Linnaeus, 1758	Lime Butterfly			
15		<i>Papilio epycides</i> Hewitson, 1864	Lesser Mime			
16		<i>Papilio helenus</i> Linnaeus, 1758	Red Helen	LC		
17		<i>Papilio krishna</i> Moore, 1857	Krishna Peacock			
18		<i>Papilio machaon</i> Linnaeus, 1758	Common Yellow Swallowtail	LC		
19		<i>Papilio agenor</i> Linnaeus, 1758	Great Mormon			
20		<i>Papilio nephelus chaon</i> Westwood, 1844	Yellow Helen			
21		<i>Papilio paris</i> Linnaeus, 1758	Paris Peacock			
22		<i>Papilio polytes romolus</i> Cramer, [1775]	Common Mormon			
23		<i>Papilio protenor euprotenor</i> Fruhstorfer, 1908	Spangle			
24		<i>Graphium agamemnon</i> (Linnaeus, 1758)	Tailed Jay			
25		<i>Graphium chironides</i> (Honrath, 1884)	Veined Jay			
26		<i>Graphium cloanthus</i> (Westwood, 1841)	Glassy Bluebottle			
27		<i>Graphium eurous sikkimica</i> (Heron, 1899)	Six-bar Swordtail			
28		<i>Graphium garhwalia</i> (Katayama, 1988)	Western Spectacle Swordtail			
29		<i>Graphium paphus</i> (de Nicéville, 1886)	Spectacle Swordtail			
30		<i>Graphium sarpedon</i> (Linnaeus, 1758)	Common Bluebottle	LC		
31		<i>Meandrusa lachinus</i> (Fruhstorfer, 1902)	Brown Gorgon			
32		<i>Teinopalpus imperialis</i> Hope, 1843	Kaiser-i-hind	NT		II
33		<i>Parnassius acco</i> Gray, [1853]	Varnished Apollo			
34		<i>Parnassius accestis laurentii</i> Epstein, 1979	Dusky Apollo			
		<i>Parnassius accestis marki</i> Epstein, 1979	Dusky Apollo			
35		<i>Parnassius cephalus hori</i> Ohshima, 1985	Grand Apollo			
36		<i>Parnassius epaphus capdevillei</i> Epstein, 1979	Common Red Apollo			
		<i>Parnassius epaphus robertsi</i> Epstein, 1979	Common Red Apollo			
37		<i>Parnassius hardwickii</i> Gray, 1831	Common Blue Apollo			
38	Hesperiidae	<i>Burara vasutana</i> (Moore, [1866])	Green Awlet			
39		<i>Hasora badra</i> (Moore, [1858])	Common Awl			
40		<i>Choaspes benjaminii japonica</i> Murray, 1875	Indian Awlking			
41		<i>Choaspes xanthopogon</i> (Kollar, [1844])	Similar Awlking			
42		<i>Celaenorrhinus dhanada</i> (Moore, [1866])	Himalayan Yellow-banded Flat			
43		<i>Celaenorrhinus leucocera</i> (Kollar, [1844])	Common Spotted Flat			
44		<i>Celaenorrhinus munda</i> (Moore, 1884)	Himalayan Spotted Flat			
45		<i>Celaenorrhinus patula</i> de Nicéville, 1889	Large Spotted Flat			
46		<i>Celaenorrhinus pero lucifera</i> Leech, 1894	Mussoorie Spotted Flat			
47		<i>Celaenorrhinus pulomaya</i> (Moore, 1865)	Multi-Spotted Flat			
48		<i>Celaenorrhinus ratna tytleri</i> Evans, 1926	Tytler's Multi-spotted Flat			
49		<i>Pseudocoladenia fatih</i> (Kollar, [1844])	West Himalayan Pied Flat			

50		<i>Sarangesa dasahara</i> (Moore, [1866])	Common Small Flat		
51		<i>Coladenia agnioides</i> Elwes & Edwards, 1897	Elwes' Pied Flat		
52		<i>Coladenia indrani</i> (Moore, [1866])	Tricolour Pied Flat		
53		<i>Seseria dohertyi</i> Watson, 1893	Himalayan White Flat		
54		<i>Tagiades litigiosa</i> Möschler, 1878	Water Snow Flat		
55		<i>Tagiades menaka</i> (Moore, [1866])	Spotted Snow Flat		
56		<i>Mooreana trichoneura</i> (C. & R. Felder, 1860)	Yellow Flat		
57		<i>Spialia galba</i> (Fabricius, 1793)	Indian Skipper		
58		<i>Pyrgus nepalensis</i> Higgins, 1984	Nepal Skipper		
59		<i>Carterocephalus avanti</i> (de Nicéville, 1886)	Orange and Silver Hopper		
60		<i>Ampittia subvittatus subradiatus</i> (Moore, 1878)	Tiger Hopper		
61		<i>Aeromachus kali</i> (de Nicéville, 1885)	Blue-spotted Scrub Hopper		
62		<i>Aeromachus pygmaeus</i> (Fabricius, 1775)	Pygmy Scrub Hopper		
63		<i>Aeromachus stigmatus</i> (Moore, 1878)	Veined Scrub Hopper		
64		<i>Sebastomyia dolopia</i> (Hewitson, 1868)	Tufted Ace		
65		<i>Sovia grahami</i> (Evans, 1926)	Graham's Ace		
66		<i>Sovia separata</i> (Moore, 1882)	Chequered Ace		
67		<i>Thoressa aina</i> (de Nicéville, [1889])	Garhwal Ace		
68		<i>Thoressa gupta</i> (de Nicéville, 1886)	Olive Ace		
69		<i>Pedesta masuriensis</i> (Moore, 1878)	Mussoorie Bush Bob		
70		<i>Pedesta pandita</i> (de Nicéville, 1885)	Brown Bush Bob		
71		<i>Halpe aucma</i> Swinhoe, 1893	Gold-spotted Ace		
72		<i>Pithauria murdava</i> (Moore, [1866])	Dark Straw Ace		
73		<i>Iambrix salsala</i> (Moore, [1866])	Chestnut Bob		
74		<i>Ancistroides curvifasica</i> (C. & R. Felder, 1862)	Restricted Demon		
75		<i>Ancistroides feisthamelii</i> (Boisduval, 1832)	Spotted Demon		
76		<i>Ancistroides folus</i> (Cramer, [1775])	Grass Demon		
77		<i>Matapa aria</i> (Moore, [1866])	Common Red-eye		
78		<i>Parnara apostata debdasi</i> Chiba & Eliot, 1991	Sumatran Swift		
79		<i>Parnara bada</i> (Moore, 1878)	Ceylon Swift		
80		<i>Parnara guttatus mangala</i> (Moore, [1866])	Straight Swift		
81		<i>Pseudoborbo bevani</i> (Moore, 1878)	Bevan's Swift		
82		<i>Pelopidas agna</i> (Moore, [1866])	Obscure-branded Swift		
83		<i>Pelopidas assamensis</i> (de Nicéville, 1882)	Great Swift		
84		<i>Pelopidas mathias</i> (Fabricius, 1798)	Small-branded Swift		
85		<i>Pelopidas sinensis</i> (Mabille, 1877)	Large Branded Swift		
86		<i>Zenonoida discreta</i> (Elwes & Edwards, 1897)	Himalayan Swift		
87		<i>Zenonoida eltola</i> (Hewitson, 1869)	Yellow-spot Swift		
88		<i>Caltoris cahira austeni</i> (Moore, [1884])	Colon Swift		
89		<i>Caltoris tulsi</i> (de Nicéville, [1884])	Purple Swift		
90		<i>Taractrocera danna</i> (Moore, 1865)	Himalayan Grass Dart		
91		<i>Oriens goloides</i> (Moore, [1881])	Ceylon Dartlet		
92		<i>Potanthus dara</i> (Kollar, [1844])	Himalayan Dart		
93		<i>Potanthus mara</i> (Evans, 1932)	Sikkim Dart		
94		<i>Potanthus nesta</i> (Evans, 1934)	Brandless Dart		
95		<i>Potanthus pseudomaesa clio</i> (Evans, 1932)	Indian Dart		
96		<i>Telicota bambusae</i> (Moore, 1878)	Dark Palm Dart		
97	Pieridae	<i>Catopsilia pomona</i> (Fabricius, 1775)	Common Emigrant		
98		<i>Catopsilia pyranthe</i> (Linnaeus, 1758)	Mottled Emigrant		
99		<i>Gonepteryx mahaguru</i> Gistel, 1857	Lesser Brimstone		
100		<i>Gonepteryx nepalensis</i> Doubleday, 1847	Himalayan Brimstone		
101		<i>Gandaca harina assamica</i> Moore, [1906]	Tree Yellow		
102		<i>Eurema blanda</i> (Boisduval, 1836)	Three-spot Grass Yellow		
103		<i>Eurema brigitta</i> (Stoll, [1780])	Small Grass Yellow		

104		<i>Eurema hecabe</i> (Linnaeus, 1758)	Common Grass Yellow		
105		<i>Eurema laeta sikkima</i> (Moore, 1906)	Spot-less Grass Yellow		
106		<i>Colias erate lativitta</i> Moore, 1882	Pale Clouded Yellow		
107		<i>Colias fieldii</i> Ménériés, 1855	Dark Clouded Yellow		
108		<i>Colias ladakensis</i> C. & R. Felder, 1865	Ladakh Clouded Yellow		
109		<i>Colias stoliczkana</i> Moore, 1878	Orange Clouded Yellow		
110		<i>Leptosia nina</i> (Fabricius, 1793)	Psyche		
111		<i>Baltia butleri</i> Moore, 1882	Butler's Dwarf		
112		<i>Mesapia peloria</i> (Hewitson, 1853)	Tibet Blackvein		
113		<i>Aporia agathon</i> (Gray, 1831)	Great Blackvein		
114		<i>Pieris brassicae nepalensis</i> Gray, 1846	Large Cabbage White		
115		<i>Pieris canidia indica</i> Evans, 1926	Indian Cabbage White		
116		<i>Pontia daplidice moorei</i> (Röber, [1907])	Bath White		
117		<i>Sinopieris chumbiensis sherpae</i> (Epstein, 1979)	Chumbi White		
118		<i>Ixias pyrene latifasciata</i> Butler, 1871	Yellow Orange Tip		
119		<i>Appias lalage</i> (Doubleday, 1842)	Spot Puffin		
120		<i>Appias lyncida eleonora</i> (Boisduval, 1836)	Chocolate Albatross		
121		<i>Prioneris thestylis</i> (Doubleday, 1842)	Spotted Sawtooth		
122		<i>Belenois aurota</i> (Fabricius, 1793)	Pioneer		
123		<i>Cepora nadina</i> (Lucas, 1852)	Lesser Gull		
124		<i>Cepora nerissa phryne</i> (Fabricius, 1775)	Common Gull		
125		<i>Delias acalis pyramus</i> (Wallace, 1867)	Red-breast Jezabel		
126		<i>Delias belladonna horsfieldi</i> (Gray, 1831)	Hill Jezabel		
127		<i>Delias berinda boyleae</i> Butler, 1885	Dark Jezabel		
128		<i>Delias descombesi</i> (Boisduval, 1836)	Red-spot Jezabel		
129		<i>Delias eucharis</i> (Drury, 1773)	Common Jezabel		
130		<i>Delias hyparete</i> (Linnaeus, 1758)	Painted Jezabel		
131		<i>Delias pasithoe</i> (Linnaeus, 1767)	Red-base Jezabel		
132		<i>Delias sanaca oreas</i> Talbot, 1928	Pale Jezabel		
133		<i>Pareronia avatar</i> (Moore, [1858])	Pale Wanderer		
134		<i>Hebomoia glaucippe</i> (Linnaeus, 1758)	Great Orange Tip		
135	Riodinidae	<i>Zemeros flegyas indicus</i> Fruhstorfer, 1898	Punchinello		
136		<i>Dodona adonira</i> Hewitson, 1866	Striped Punch		
137		<i>Dodona dipoea</i> Hewitson, 1866	Lesser Punch		
138		<i>Dodona egeon</i> (Westwood, [1851])	Orange Punch		
139		<i>Dodona eugenes</i> Bates, [1868]	Tailed Punch		
140		<i>Dodona ouida</i> Hewitson, 1866	Mixed Punch		
141		<i>Abisara chela</i> de Nicéville, 1886	Spot Judy		
142		<i>Abisara fylla</i> (Westwood, 1851)	Dark Judy		
143		<i>Abisara neophron</i> (Hewitson, 1861)	Tailed Judy		
144	Lycaenidae	<i>Curetis acuta dentata</i> Moore, 1879	Angled Sunbeam		
145		<i>Curetis bulis</i> (Westwood, 1852)	Bright Sunbeam		
146		<i>Poritia hewitsoni</i> Moore, [1866]	Common Gem		
147		<i>Logania distanti massalia</i> Doherty, 1891	Dark Mottle		
148		<i>Miletus chinensis assamensis</i> (Doherty, 1891)	Common Brownie		
149		<i>Lycaena panava</i> (Westwood, 1852)	White-bordered Copper		
150		<i>Lycaena phlaeas baralacha</i> (Moore, 1884)	Common Copper		
151		<i>Heliophorus brahma</i> (Moore, [1858])	Golden Shapphire		
152		<i>Heliophorus epicles latilimbata</i> Eliot, 1963	Purple Sapphire		
153		<i>Heliophorus indicus</i> (Fruhstorfer, 1908)	Indian Purple Sapphire		
154		<i>Heliophorus moorei coruscans</i> (Moore, 1882)	Azure Shapphire		
155		<i>Heliophorus oda</i> (Hewitson, 1865)	Eastern Blue Sapphire		
156		<i>Heliophorus sena</i> (Kollar, [1844])	Sorrel Sapphire		
157		<i>Heliophorus tamu</i> (Kollar, [1844])	Powdery Green Shapphire		

158		<i>Spindasis lohita himalayanus</i> (Moore, 1884)	Long-banded Silver-line		
159		<i>Spindasis nipalicus</i> (Moore, 1884)	Silver-grey Silver-line		
160		<i>Chaetoprocta kurumi</i> Fujioka, 1970	Nepal Walnut Blue		
161		<i>Chrysozephyrus duma</i> (Hewitson, 1878)	Metallic Green Hairstreak		
162		<i>Chrysozephyrus vittatus</i> (Tytler, 1915)	Tytler's Green Hairstreak		
163		<i>Shirozozeephyrus bhutanensis</i> (Howarth, 1957)	Bhutan Silver Hairstreak		
164		<i>Shirozozeephyrus birupa</i> (Moore, 1877)	Fawn Hairstreak		
165		<i>Shirozozeephyrus paona</i> (Tytler, 1915)	Paona Hairstreak		
166		<i>Arhopala atrax</i> (Hewitson, 1862)	Indian Oakblue		
167		<i>Arhopala bazalus</i> (Hewitson, 1862)	Powdered Oakblue		
168		<i>Arhopala birmana</i> (Moore, [1884])	Burmese Bushblue		
169		<i>Arhopala eumolphus</i> (Cramer, [1780])	Green Oakblue		
170		<i>Arhopala ganesa</i> (Moore, [1858])	Tail-less Bushblue		
171		<i>Arhopala paramuta</i> (de Nicéville, [1884])	Hooked Oakblue		
172		<i>Arhopala rama</i> (Kollar, [1844])	Dark Himalayan Oakblue		
173		<i>Arhopala singla</i> (de Nicéville, 1885)	Yellow-disc Oakblue		
174		<i>Flos areste</i> (Hewitson, 1862)	Tailless Plushblue		
175		<i>Surendra quercetorum</i> (Moore, [1858])	Common Acacia Blue		
176		<i>Iraota timoleon</i> (Stoll, [1790])	Silverstreak Blue		
177		<i>Catapaecilma major</i> Druce, 1895	Common Tinsel		
178		<i>Horaga onyx</i> (Moore, [1858])	Common Onyx		
179		<i>Ticherra acte</i> (Moore, [1858])	Blue Imperial		
180		<i>Pratapa deva lila</i> Moore, 1884	White Tufted Royal		
181		<i>Pratapa icetas</i> (Hewitson, 1865)	Dark Blue Royal		
182		<i>Tajuria illurgoides</i> de Nicéville, 1890	Scarce White Royal		
183		<i>Charana mandarinus</i> (Hewitson, 1863)	Mandarin Blue		
184		<i>Remelana jangala ravata</i> (Moore, [1866])	Chocolate Royal		
185		<i>Ancema ctesia</i> (Hewitson, 1865)	Bi-spot Royal		
186		<i>Hypolycaena erylus himavantus</i> Fruhstorfer, 1912	Common Tit		
187		<i>Chliaria kina</i> (Hewitson, 1869)	Blue Tit		
188		<i>Chliaria othona</i> (Hewitson, 1865)	Orchid Tit		
189		<i>Zeltus amasa</i> (Hewitson, 1865)	Fluffy Tit		
190		<i>Sinthusia chandrana</i> (Moore, 1882)	Broad Spark		
191		<i>Rapala manea schistacea</i> (Moore, 1879)	Slate Flash		
192		<i>Rapala nissa</i> (Kollar, [1844])	Common Flash		
193		<i>Rapala pheretima petosiris</i> (Hewitson, 1863)	Copper Flash		
194		<i>Rapala selira</i> (Moore, 1874)	Himalayan Red Flash		
195		<i>Rapala tara</i> de Nicéville, [1889]	Assam Flash		
196		<i>Rapala varuna gebenia</i> Fruhstorfer, 1914	Indigo Flash		
197		<i>Nacaduba hermus nabo</i> Fruhstorfer, 1916	Pale Four- lineblue		
198		<i>Nacaduba kurava</i> (Moore, [1858])	Transparent Six-lineblue		
199		<i>Prosotas dubiosa indica</i> (Evans, [1925])	Tail-less Line-blue		
200		<i>Prosotas nora</i> (C. Felder, 1860)	Common Line-blue		
201		<i>Prosotas pia marginata</i> Tite, 1963	Margined Line-Blue		
202		<i>Jamides alecto</i> (C. Felder, 1860)	Metallic Cerulean		
203		<i>Jamides bochus</i> (Stoll, [1782])	Dark Caerulean		
204		<i>Jamides celeno aelianus</i> (Fabricius, 1793)	Common Caerulean		
205		<i>Catochrysops strabo</i> (Fabricius, 1793)	Forget-me-not		
206		<i>Lampides boeticus</i> (Linnaeus, 1767)	Pea-blue		
207		<i>Leptotes plinius</i> (Fabricius, 1793)	Zebra Blue		
208		<i>Castalius rosimon</i> (Fabricius, 1775)	Common Pierrot		
209		<i>Tarucus ananda</i> (de Nicéville, [1884])	Dark Pierrot		
210		<i>Zizeeria karsandra</i> (Moore, 1865)	Dark Grass Blue		
211		<i>Pseudozizeeria maha</i> (Kollar, [1844])	Pale Grass Blue		

212		<i>Zizina otis</i> (Fabricius, 1787)	Lesser Grass Blue			
213		<i>Cupido huegelii</i> (Gistel, 1857)	Dusky-blue Cupid			
214		<i>Cupido lacturnus assamica</i> Tytler, 1915	Indian Cupid			
215		<i>Megisba malaya sikkima</i> Moore, 1884	Malayan			
216		<i>Celastrina argiolus jynteana</i> (de Nicéville, 1884)	Hill Hedge Blue			
217		<i>Celastrina huegelii oreoides</i> (Evans, 1925)	Large Hedge Blue			
218		<i>Celastrina lavendularis limbata</i> (Moore, 1879)	Plain Hedge Blue			
219		<i>Lestranicus tranpectus</i> (Moore, 1879)	White-banded Hedge Blue			
220		<i>Celatoxia marginata</i> (de Nicéville, 1884)	Margined Hedge Blue			
221		<i>Acytolepis puspa gisca</i> (Fruhstorfer, 1910)	Common Hedge Blue			
222		<i>Oreolyce vardhana nepalica</i> Forster, 1980	Dusky Hedge-Blue			
223		<i>Udara albocaerulea</i> (Moore, 1879)	Albocerulean			
224		<i>Udara dilecta</i> (Moore, 1879)	Pale Hedge Blue			
225		<i>Euchrysops cnejus</i> (Fabricius, 1798)	Gram Blue			
226		<i>Agriades dis</i> (Grum-Grshimailo, 1891)	Tibetan Argus Blue			
227		<i>Agriades kurtjohnsoni</i> Bálint, 1997	Nepal Argus Blue			
228		<i>Agriades orbitulus lobbichleri</i> (Forster, 1961)	Alpine Mountain Blue			
229		<i>Albulina lehanus</i> (Moore, 1878)	Common Mountain Blue			
230		<i>Albulina pharis</i> (Fawcett, 1903)	Fawcett's Mountain Blue			
231		<i>Polyommatus nepalensis</i> Forster, 1961	Nepal Meadow Blue			
232		<i>Polyommatus pierinoi</i> Bálint, 1995	Manag Meadow Blue			
233		<i>Polyommatus stoliczkanus</i> (C. & R. Felder, [1865])	Himalayan Meadow Blue			
234	Nymphalidae	<i>Danaus chrysippus</i> (Linnaeus, 1758)	Plain Tiger			
235		<i>Danaus genutia</i> (Cramer, [1779])	Common Tiger			
236		<i>Parantica aglea melanoides</i> Moore, 1883	Glassy Tiger			
237		<i>Parantica pedonga</i> Fujioka, 1970	Talbot's Chestnut Tiger			
238		<i>Parantica sita</i> (Kollar, [1844])	Chestnut Tiger			
239		<i>Tirumala limniace exoticus</i> (Gmelin, 1790)	Blue Glassy Tiger			
240		<i>Tirumala septentrionis</i> (Butler, 1874)	Dark Blue Tiger			
241		<i>Euploea core</i> (Cramer, [1780])	Common Indian Crow			
242		<i>Euploea mulciber</i> (Cramer, [1777])	Striped Blue Crow			
243		<i>Polyura athamas</i> (Drury, [1773])	Common Nawab			
244		<i>Polyura dolon centralis</i> (Rothschild, 1899)	Stately Nawab			
245		<i>Polyura eudamippus</i> (Doubleday, 1843)	Great Nawab			
246		<i>Charaxes bernardus</i> (Fabricius, 1793)	Tawny Rajah			
247		<i>Charaxes marmax</i> Westwood, 1847	Yellow Rajah			
248		<i>Discophora sondaica zal</i> Westwood, 1851	Common Duffer			
249		<i>Elymnias malelas</i> (Hewitson, 1863)	Spotted Palmfly			
250		<i>Elymnias vasudeva</i> Moore, 1857	Jezabel Palmfly			
251		<i>Melanitis leda</i> (Linnaeus, 1758)	Common Evening Brown			
252		<i>Melanitis phedima bela</i> Moore, 1857	Dark Evening Brown			
253		<i>Lethe baladeva</i> (Moore, [1866])	Treble Sliverstripe			
254		<i>Lethe chandica</i> (Moore, [1858])	Angled Red Forester			
255		<i>Lethe confusa</i> Aurivillius, 1898	Banded Treebrown			
256		<i>Lethe dakwania</i> (Tytler, 1939)	Garhwal Woodbrown			
257		<i>Lethe goalpara</i> (Moore, [1866])	Large Goldenfork			
258		<i>Lethe isana dinarbas</i> (Hewitson, 1863)	Common Forester			
259		<i>Lethe jalaurida</i> (de Nicéville, 1880)	Small Silverfork			
260		<i>Lethe kansa</i> (Moore, 1857)	Bamboo Forester			
261		<i>Lethe maitrya</i> de Nicéville, 1881	Barred Woodbrown			
262		<i>Lethe nicetas</i> (Hewitson, 1863)	Yellow Woodbrown			
263		<i>Lethe rohria</i> (Fabricius, 1787)	Common Treebrown			
264		<i>Lethe serbonis teesta</i> Talbot, 1949	Brown Forester			
265		<i>Lethe siderea</i> Marshall, 1881	Scarce Woodbrown			

266	<i>Lethe sidonis</i> (Hewitson, 1863)	Common Woodbrown			
267	<i>Lethe sinorix</i> (Hewitson, 1863)	Tailed Red Forester			
268	<i>Lethe sura</i> (Doubleday, [1849])	Lilacfork			
269	<i>Lethe verma sintica</i> Fruhstorfer, 1911	Straight-banded Treebrown			
270	<i>Neope pulaha</i> (Moore, [1858])	Veined Labyrinth			
271	<i>Neope pulahina</i> (Evans, 1923)	Scarce Labyrinth			
272	<i>Neope yama buckleyi</i> Talbot, [1949]	Dusky Labyrinth			
273	<i>Lasiommata schakra</i> (Kollar, [1844])	Common Wall			
274	<i>Crebeta lehmanni</i> Forster, 1980	Nepal Wall			
275	<i>Raphicera moorei</i> (Butler, 1867)	Small Tawny Wall			
276	<i>Raphicera satricus</i> (Doubleday, [1849])	Large Tawny Wall			
277	<i>Orinoma damaris</i> Gray, 1846	Tiger Brown			
278	<i>Heteropsis malsara</i> (Moore, 1857)	White-line Bushbrown			
279	<i>Mycalesis francisca sanātana</i> Moore, [1858]	Lilacine Bushbrown			
280	<i>Mycalesis heri</i> Moore, 1857	Moore's Bushbrown			
281	<i>Mycalesis mineus</i> (Linnaeus, 1758)	Dark-brand Bushbrown			
282	<i>Mycalesis nicotia</i> Westwood, [1850]	Bright-eye Bush Brown			
283	<i>Mycalesis perseus blasius</i> (Fabricius, 1798)	Common Bushbrown			
284	<i>Mycaeleis suavolens</i> W-M & de Nicéville, 1883	Wood Mason's Bushbrown			
285	<i>Mycalesis visala</i> Moore, [1858]	Long-banded Bushbrown			
286	<i>Orsotriaena medus</i> (Fabricius, 1775)	Jungle Brown			
287	<i>Coenonympha amaryllis forsteri</i> (Stoll [1782])	Mustang Heath			
288	<i>Callerebia annada caeca</i> (Watkins, 1925)	Ringed Argus			
289	<i>Callerebia hybrida</i> Butler, 1880	Hybrid Argus			
290	<i>Callerebia scanda opima</i> (Watkins, 1927)	Pallid Argus			
291	<i>Loxerebia narasingha</i> (Moore, 1857)	Mottled Argus			
292	<i>Ypthima avanta</i> Moore, [1875]	Jewel Four-ring			
293	<i>Ypthima baldus</i> (Fabricius, 1775)	Common Five-ring			
294	<i>Ypthima confusa</i> Shirôzu & Shima, 1977	Confusing Three-ring			
295	<i>Ypthima huebneri</i> Kirby, 1871	Common Four-ring			
296	<i>Ypthima hyagriva</i> (Moore, 1857)	Brown Argus			
297	<i>Ypthima indecora</i> Moore, 1882	Western Five-ring			
298	<i>Ypthima nareda</i> (Kollar, [1844])	Large Three-ring			
299	<i>Ypthima newara</i> Moore, [1875]	Newar Three-ring			
300	<i>Ypthima nikaia</i> Moore, [1875]	Moore's Five-ring			
301	<i>Ypthima parasakra</i> Eliot, 1987	Himalayan Four-ring			
302	<i>Ypthima sakra</i> Moore, 1857	Himalayan Five-ring			
303	<i>Paroeneis grandis</i> Riley, 1923	Grand Mountain Satyr			
304	<i>Paroeneis sikkimensis</i> (Staudinger, 1889)	Sikkim Mountain Satyr			
305	<i>Aulocera brahminus dokwana</i> Evans, 1923	Narrow-banded Satyr			
306	<i>Aulocera loha</i> (Doherty, 1886)	Doherty's Satyr			
307	<i>Aulocera padma</i> (Kollar, [1844])	Great Satyr			
308	<i>Aulocera saraswati</i> (Kollar, [1844])	Striated Satyr			
309	<i>Aulocera swaha lobbichleri</i> Gross, 1958	Common Satyr			
310	<i>Neptis ananta ochracea</i> Evans, 1924	Yellow sailer			
311	<i>Neptis arandia melba</i> Evans, 1912	Variegated Sailer			
312	<i>Neptis cartica</i> Moore, 1872	Plain Sailer			
313	<i>Neptis clinia susruta</i> Moore, 1872	Clinia Sailer			
314	<i>Neptis hylas kamarupa</i> Moore, [1875]	Common Sailer			
315	<i>Neptis mahendra</i> Moore, 1872	Himalayan Sailer			
316	<i>Neptis narayana</i> Moore, 1858	Broadstick Sailer			
317	<i>Neptis nycteus</i> de Nicéville, 1890	Hockeystick Sailer			
318	<i>Neptis radha</i> Moore, 1857	Great Yellow Sailer			
319	<i>Neptis sankara amba</i> Moore, 1858	Broad-banded Sailer			

320		<i>Neptis sappho astola</i> Moore, 1872	Pallas' Sailer		
321		<i>Neptis soma butleri</i> Eliot, 1969	Creamy Sailer		
322		<i>Neptis zaida bhutanica</i> Tytler, 1926	Pale Green Sailer		
323		<i>Pantoporia hordonia</i> (Stoll, [1790])	Common Lascar		
324		<i>Athyma cama</i> Moore, [1858]	Orange Staff Sergeant		
325		<i>Athyma jina</i> Moore, [1858]	Bhutan Sergeant		
326		<i>Athyma nefte inara</i> (Westwood, 1850)	Colour Sergeant		
327		<i>Athyma opalina</i> (Kollar, [1844])	Hill Sergeant		
328		<i>Athyma orientalis</i> Elwes, 1888	Oriental Sergeant		
329		<i>Athyma perius</i> (Linnaeus, 1758)	Common Sergeant		
330		<i>Athyma ranga</i> Moore, [1858]	Blackvein Sergeant		
331		<i>Athyma selenophora</i> (Kollar, [1844])	Staff Sergeant		
332		<i>Athyma zeroca</i> Moore, 1872	Small Staff Sergeant		
333		<i>Moduza procris</i> (Cramer, [1777])	Commander		
334		<i>Parasarpa dudu</i> (Doubleday, [1848])	White Commodore		
335		<i>Auzakia danava</i> (Moore, [1858])	Commodore		
336		<i>Abrota ganga</i> Moore, 1857	Sergeant Major		
337		<i>Cynitia lepidea</i> (Butler, 1868)	Grey Count		
338		<i>Tanaecia julii appiades</i> (Ménétriés, 1857)	Common Earl		
339		<i>Euthalia aconthia</i> (Cramer, [1777])	Common Baron		
340		<i>Euthalia patala</i> (Kollar, [1844])	Grand Duchess		
341		<i>Argynnis childreni</i> Gray, 1831	Large Silverstripe		
342		<i>Argynnis clara</i> (Blanchard, [1844])	Silverstreak		
343		<i>Argynnis hyperbius</i> (Linnaeus, 1763)	Indian Fritillary		
344		<i>Argynnis kamala</i> (Moore, 1857)	Common Silverstripe		
345		<i>Issoria lathonia</i> (Linnaeus, 1758)	Queen of Spain Fritillary		
346		<i>Issoria mackinnonii</i> (de Nicéville, 1891)	Mackinnon's Silverspot		
347		<i>Phalanta phalantha</i> (Drury, [1773])	Common Leopard		
348		<i>Cupha erymanthis lotis</i> (Sulzer, 1776)	Rustic		
349		<i>Vagrans egista</i> (Cramer, [1780])	Vagrant		
350		<i>Ariadne merione</i> (Cramer, [1777])	Common Castor		
351		<i>Dilipia morgiana</i> (Westwood, [1850])	Golden Emperor		
352		<i>Sephisa chandra</i> (Moore, [1858])	Eastern Courtier		
353		<i>Hestina persimilis</i> (Westwood, [1850])	Common Siren		
354		<i>Hestinalis nama</i> (Doubleday, 1844)	Circe		
355		<i>Cyrestis thyodamas</i> Boisduval, 1846	Common Map		
356		<i>Chersonesia risa</i> (Doubleday, [1848])	Common Maplet		
357		<i>Pseudergolis wedah</i> (Kollar, 1848)	Tabby		
358		<i>Stibochiona nicea</i> (Gray, 1846)	Popinjay		
359		<i>Melitaea arcesia sikkimensis</i> Moore, 1901	Blackvein Fritillary		
360		<i>Symbrenthia brabira</i> Moore, 1872	Himalayan Jester		
361		<i>Symbrenthia hypselis cotanda</i> Moore, [1875]	Spotted Jester		
362		<i>Symbrenthia lilaea khasiana</i> Moore, [1875]	Common Jester		
363		<i>Symbrenthia niphanda</i> Moore, 1872	Blue-tail Jester		
364		<i>Aglais caschmirensis aesis</i> Fruhstorfer, 1912	Indian Tortoiseshell		
365		<i>Aglais ladakensis</i> (Moore, 1878)	Ladakh Tortoiseshell		
366		<i>Kaniska canace</i> (Linnaeus, 1763)	Blue Admiral		
367		<i>Polygonia c-album agnicula</i> (Moore, 1872)	Comma		
368		<i>Vanessa cardui</i> (Linnaeus, 1758)	Painted Lady		
369		<i>Vanessa indica</i> (Herbst, 1794)	Indian Red Admiral		
370		<i>Junonia almana</i> (Linnaeus, 1758)	Peacock Pansy		
371		<i>Junonia atlites</i> (Linnaeus, 1763)	Grey Pansy		
372		<i>Junonia hierta</i> (Fabricius, 1798)	Yellow Pansy		
373		<i>Junonia iphita</i> (Cramer, [1779])	Chocolate Pansy		

374		<i>Junonia lemonias</i> (Linnaeus, 1758)	Lemon Pansy			
375		<i>Junonia orithysa</i> (Linnaeus, 1758)	Blue Pansy			
376		<i>Hypolimnas bolina jacintha</i> (Drury, 1773)	Great Eggfly			
377		<i>Hypolimnas misippus</i> (Linnaeus, 1764)	Danaid Eggfly			
378		<i>Kallima inachus</i> (Boisduval, 1846)	Orange Oakleaf			
379		<i>Doleschallia bisaltide indica</i> Moore, 1899	Autumn Leaf			
380		<i>Acraea issoria</i> (Hübner, [1819])	Yellow Coster			
381		<i>Acraea violae</i> (Fabricius, 1793)	Tawny Coster			
382		<i>Cethosia biblis tisamena</i> Fruhstorfer, 1912	Red Lacewing			
383		<i>Cethosia cyane</i> (Drury, [1773])	Leopard Lacewing			
384		<i>Libythea myrrha sanguinalis</i> Fruhstorfer, 1898	Club Beak			

Annex: 17: Plants and their Conservation Status in ACA

DICOTS								
S.N	Family / Scientific name	Common Name	Vernacular Name	Elevation	Conservation status			Endemism
	+				IUCN	CITES	G o N	
Acanthaceae								
1	<i>Asystasia macrocarpa</i> Nees			300-2100				
2	<i>Barleria cristata</i> L.	Philippine Violet	Bhedekuro	200-2100				
3	<i>Barleria strigosa</i> Willd.	Bristly Blue Barleria		300-600				
4	<i>Eranthemum pulchellum</i> Andrews	Blue Sage	Ankhle Jhar	200-1450				
5	<i>Justicia adhatoda</i> L.	Adhatoda	Ashuro	500-1600				
6	<i>Justicia tukuchensis</i> A. W. Graham			2300				Endemic to Mustang
7	<i>Justicia gendarussa</i> Burm.f.		Kasan	200-1300				
8	<i>Justicia japonica</i> Thunb.		Phulphar	500-1500				
9	<i>Phlogacanthus thyrsoformis</i> (Roxb. ex Hardw.) D.J.Mabberley	Nongmangkha	Tite Jhar	200-1700				
10	<i>Strobilanthes capitata</i> (Nees) T. Anderson			200-2000				
11	<i>Strobilanthes lachenensis</i> C.B. Clarke		Angaare	1800-4300				
12	<i>Strobilanthes penstemonoides</i> (Nees) T. Anderson			1200-2100				
13	<i>Strobilanthes saccata</i> J.R.I. Wood			1930				Endemic to Kaski
Amaranthaceae								
14	<i>Achyranthus aspera</i> L.	Prickly Chaff Flower	Datiwan, Apamarga	100-2900				
15	<i>Amaranthus blitum</i> subsp. <i>Oleraceus</i> (L.) Costea	Livid amaranth		1500-2300				
16	<i>Amaranthus caudatus</i> L.	Fox Tail Amaranth		1000-3000				
17	<i>Amaranthus spinosus</i> L.	Prickly Amaranth	Lunde kanda	150-1200				
18	<i>Amaranthus viridis</i> L.	Slender amaranth	Latte saag	150-1200				
19	<i>Axyris hybrida</i> L.			3000-3500				
20	<i>Chenopodium album</i> L.	Lamb's quarters	Fat Hen/ Bethe	1500-4000				
21	<i>Chenopodium foliosum</i> Asch.	Strawberry Sticks		1800-3800				
22	<i>Chenopodium harae</i> Sukhor.			2700				Endemic to Mustang
23	<i>Cyathula capitata</i> Moq.	Roundhead Pastureweed	Bhedekuro	1300-2900				
24	<i>Cyathula tomentosa</i> (Roth.) Moq.	Cottony Chaff Flower	Bhedekuro	1400-2400				
25	<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants	American wormseed		4000				
26	<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants		Gukhu	300-2500				
27	<i>Krascheninnikovia ceratoides</i> (L.) Gueldenst.			2500-3400				
28	<i>Salsola nepalensis</i> Grubov			2500-3600				
Adoxaceae								

29	<i>Sambucus adnata</i> Wall. ex DC.	Asian dwarf elder		1500-3700			
30	<i>Sambucus javanica subsp. chinensis</i> (Lindl.) Fukuoka	Himalayan elder		1400-2400			
31	<i>Viburnum cotinifolium</i> D. Don	Smoketree Leaved Viburnum	Narka, Ganaune	1800-3600			
32	<i>Viburnum cylindricum</i> Buch.-Ham. Ex D.Don	Tube flower Viburnum	Ghode Khari	1200-2500			
33	<i>Viburnum erubescens</i> Wall.	Reddish Viburnum	Narka	1500-3500			
34	<i>Viburnum grandiflorum</i> Wall. ex DC.	Grand Viburnum		2700-3700			
35	<i>Viburnum mullaha</i> Buch.-Ham. ex D. Don	Indian cranberry	Malo, Asikra	1500-3000			
36	<i>Viburnum nervosum</i> D. Don			2600-3500			
Anacardiaceae							
37	<i>Brucea javanica</i> (L.) Merr.	Chinese sumac	Bhakimlo	1300-2400			
38	<i>Choerospondias axillaris</i> (Roxb.) B. L. Burtt & A. W. Hill.		Lapsi, Kalan	1200-1600	LC		
39	<i>Dobinea vulgaris</i> Buch.-Ham ex D. Don		Sangle	1500-2300			
40	<i>Mangifera indica</i> L.	Mango Tree	Aanp, Amchur	300-1200			
41	<i>Rhus succedanea</i> L.	Wild Varnish Tree	Rani bhalayoo	1300-2400			
42	<i>Searsia parviflora</i> (Roxb.) F.A.Barkley			700-1200			
43	<i>Toxicodendron wallichii</i> (Hook. f.) Kuntze		Bhalayoo	300-2800			
Apiaceae							
44	<i>Acronema dyssimetrradiata</i> Farille & S.B.Malla			4000-4200			Endemic to Lamjung
45	<i>Acronema nervosum</i> H.Wolff			2500-3400			
46	<i>Acronema refugicola</i> Farille & Lachard						Endemic to Nepal
47	<i>Acronema tenerum</i> (DC.) Edgew.			2800-4000			
48	<i>Angelica cyclocarpa</i> (C.Norman) M.Hiroe			2800-3600			
49	<i>Bupleurum candollei</i> Wall. ex DC.	Himalayan Thorowax		2400-4000			
50	<i>Bupleurum falcatum</i> L.			1500-3800			
51	<i>Bupleurum hamiltonii</i> N.P.Balacr.		Mariche Ghans	1300-3200			
52	<i>Bupleurum longicaule</i> Wall.	Long-stem Thorowax		3000-4900			
53	<i>Carum carvi</i> L.			2800-4500			
54	<i>Centella asiatica</i> (L.) Urb.	Spadeleaf	Ghodthapre	Upto2100			
55	<i>Chaerophyllum villosum</i> Wall. ex DC.			2100-3600			
56	<i>Conioselinum nepalense</i> Pimenov & Kljuykov			3100-3400			Endemic to Nepal
57	<i>Cortia depressa</i> (D.Don) C.Norman	Prostrate Cortia		3600-4900			
58	<i>Cortiella hookeri</i> (C.B.Clarke) C.Norman			4300-5500			
59	<i>Eriocycla nuda</i> Lindl.						
60	<i>Heracleum candicans</i> Wall. ex DC.			2200-3800			
61	<i>Heracleum nepalense</i> D. Don	Nepal Hogweed	Bucho Aushadhi	1800-3700			
62	<i>Hydrocotyle himalaica</i> P. K. Mukh.			1500-2500			
63	<i>Hymenidium apiolens</i> (C. B. Cl.) M.G. P. & E. V Kljuykov						
64	<i>Hymenidium benthamii</i> (Wall. ex DC.) M.G. P. & E. V. Kljuykov						

65	<i>Keraymonia cortiformis</i> Cauwet & S.B.Malla			3500-3700			
66	<i>Keraymonia nipaulensis</i> Cauwet & Farille			4300-4600			Endemic to Nepal
67	<i>Lalldhwojia staintonii</i> Farille			3800-4000			Endemic to Lamajung
68	<i>Ligusticopsis wallichiana</i> (DC.) Pimenov & Kljuykov		Bhutkesh	2700-4800			
69	<i>Meeboldia achilleifolia</i> (DC.) P.K. Mukh. & Constance			1200-3200			
70	<i>Pleurospermum candollei</i> Benth. ex C.B. Clarke			3600-4800			
71	<i>Pleurospermum hookeri</i> C.B. Clarke		Same	4000-5200			
72	<i>Pleurospermum angelicoides</i> (Wall. ex DC.) Benth. ex C.B. Clarke			2500-4000			
73	<i>Sanicula elata</i> Buch.-Ham. ex D. Don			1600-3500			
74	<i>Sinocarum latifoliolatum</i> Pimenov & Kljuykov			3100-3400			Endemic to Kaski
75	<i>Sinocarum meeboldioides</i> Pimenov & Kljuykov			2000-2300			Endemic to Kaski
76	<i>Sinocarum staintonianum</i> P.K. Mukherjee ex F. & Lachard			4100			Endemic to Nepal
77	<i>Sinolimprichtia alpina</i> H. Wolff			4800-5200			
78	<i>Tetrataenium lallii</i> (C. Norman) Cauwet, Carb. & Farille	Himalayan Hogweed		3000-4200			Endemic to ACA
79	<i>Tetrataenium wallichii</i> (DC.) Manden.			3600-4100			
80	<i>Tordyliopsis brunonis</i> Wall. ex DC.			3300-4600			
81	<i>Tordyliopsis brunonis</i> DC.			4400-500			
82	<i>Torilis japonica</i> (Houtt.) DC.	Japanese Hedge-parsley		500-3000			
83	<i>Vicatia conifolia</i> Wall. ex DC.			1800-3700			
Apocynaceae							
84	<i>Asclepias curassavica</i> L.	Blood Flower	Madane Phool	700-1500			
85	<i>Beaumontia grandiflora</i> Wall.	Nepal Trumpet Flower		150-1400			
86	<i>Calotropis gigantea</i> (L.) W.T. Aiton	Bowstring hemp	Aank, Ghrne	100-1100			
87	<i>Ceropegia meleagris</i> H. Huber			2286			Endemic to Mustang
88	<i>Ceropegia meyeri</i> Decne.			200-2600			
89	<i>Ceropegia pubescens</i> Wall.	Yellow Himalayan Ceropegia		600-2250			
90	<i>Cryptolepis buchananii</i> Roem. & Schult.	Wax Leaved Climber	Dudhe lahara	250-1500			
91	<i>Cynanchum callialatum</i> Buch.-Ham. ex Wight			80-200			
92	<i>Cynanchum auriculatum</i> Royle ex Wight	heart-leaf swallow-wort	Latikoseli	2000-3700			
93	<i>Holarrhena pubescens</i> (Buch.-Ham.) Wall. ex G. Don	Bitter Oleander	Kirro	100-150			
94	<i>Hoya lanceolata</i> Wallich ex D. Don	Hoya	Kurakure Jhar	1000-2000			
95	<i>Marsdenia lucida</i> Edgew. ex Madden			2230			
96	<i>Periploca calophylla</i> (Wight) Falc.	Pretty-Leaved Silkflower Vine		200-2000			
97	<i>Plumeria rubra</i> L.	Pagoda Tree	Frangi-Pani,	600-1200			
98	<i>Trachelospermum lucidum</i> (D. Don) K. Schum.		Dudhe lahara	300-2200			
99	<i>Tylophora tenerrima</i> Wall. ex Wight	Tender Himalayan Ipecac		1200-2100			
100	<i>Vincetoxicum canescens</i> (Willd.) Decne.			2300-3600			

101	<i>Vincetoxicum hirsutum</i> Medik.			2800-3800				
Aquifoliaceae								
102	<i>Ilex dipyrrena</i> Wallich.	Himalayan Holly Tree	Kante	2500-3000				
103	<i>Ilex excelsa</i> (Wall.) Voigt		Pahele, Kenle	600-2100				
104	<i>Ilex fragilis</i> Hook.f.			2200-3000				
Acoraceae								
105	<i>Acorus calamus</i> L.	Sweet Flag	Bojho	1700-2300				
Araliaceae								
106	<i>Aralia leschenaultii</i> (DC.) J.Wen			1600-3700				
107	<i>Brassaiopsis glomerulata</i> (Blume) Regel		Kalo chuletro	300-2000				
108	<i>Brassaiopsis hainla</i> (Buch.-Ham.)Seem.		Seto Chuletro	1000-2000				
109	<i>Eleutherococcus cissifolius</i> (Griff. ex C.B.Clarke) Nakai		Dangolinge	300-4000				
110	<i>Hedera nepalensis</i> K. Koch	Himalayan Ivy	Dudhela	2000-3200				
111	<i>Panax pseudoginseng</i> Wall.	Himalayan Ginseng	Madar	2100-2500				
112	<i>Schefflera rhododendrifolia</i> (Griff.) Frodin		Simal	2000-3400				
113	<i>Trevesia palmata</i> (Roxb. ex Lindl.) Vis.	Snowflake Tree	Chuletro	250-2500				
Areaceae								
114	<i>Trachycarpus martianus</i> (Wall. ex Mart.) H.Wendl.			1500-2500				
Aristolochiaceae								
115	<i>Aristolochia griffithii</i> Hook.f. & Thomson ex Duch.			1800-2900				
Asteraceae								
116	<i>Ageratina adenophora</i> (Spreng.) R.M.King & H.Rob.	Crofton weed	Kalo banmara	Upto 2200				
117	<i>Ageratum conyzoides</i> L.	Appa grass	Gandhe Jhar	Upto 2000				
118	<i>Ainsliaea aptera</i> DC.	Wingless Ainsliaea	Sahadeva	1400-3500				
119	<i>Ainsliaea latifolia</i> (D. Don) Sch. Bip.	Winged Ainsliaea	Sahadevi	1700-3500				
120	<i>Ajania nubigena</i> (Wall. ex DC.) Muldashev			3600-5100				
121	<i>Ajania nubigena</i> (Wall. ex DC.) Muldashev			2800-4400				
122	<i>Ajania tibetica</i> (Hook.f. & Thomson) Tzvelev			4000-5400				
123	<i>Allardia nivea</i> Hook.f. & Thomson ex C.B.Clarke			3900-5400				
124	<i>Allardia tomentosa</i> Decne.			3600-5000				
125	<i>Anaphalis busua</i> (Buch.-Ham.) DC.	Tall Pearly Everlasting	Buki Phool	1500-3600				
126	<i>Anaphalis contorta</i> (D. Don) Hook.f.	Eared-leaf Pearly Everlasting	Buki Phool	1500-4500				
127	<i>Anaphalis margaritacea</i> (L.) Benth. & Hook.f.	pearly everlasting		1800-3300				
128	<i>Anaphalis nepalensis</i> (Spreng.) Hand.- Mazz.	Nepal Pearly Everlasting	Phazarmendo	2900-4100				
129	<i>Anaphalis royleana</i> DC.		Buki Phool	1200-4200				
130	<i>Anaphalis triplinervis</i> (Sims) Sims ex C.B.Clarke	Woolly Pearly Everlasting		1800-3300				
131	<i>Anaphalis triplinervis</i> var. <i>monocephala</i> (DC.) Airy Shaw			3400-5500				
132	<i>Arctium lappa</i> L.	Greater Burdock	Tine	2100-3700				

133	<i>Artemisia absinthium</i> L.	Absinthe		1500-2700			
134	<i>Artemisia biennis</i> Willd.			3700-4600			
135	<i>Artemisia carvifolia</i> Buch.-Ham. ex Roxb.			2500-3500			
136	<i>Artemisia dubia</i> Wall. ex Besser		Seto paati	1200-3400			
137	<i>Artemisia gmelinii</i> Weber ex Steckm			2100-4300			
138	<i>Artemisia indica</i> Willd.		Titepati	300-2400			
139	<i>Artemisia japonica</i> Thunb.	Japanese Wormwood		2800-4000			
140	<i>Artemisia mustangensis</i> Yonek.			2400			Endemic to Nepal
141	<i>Artemisia nepalica</i> Yonek.			3200			Endemic to Muktinath
142	<i>Artemisia roxburghiana</i> Besser			1000-5600			
143	<i>Artemisia sieversiana</i> Ehrh. ex Willd.	Marikkozhundu		1500-4300			
144	<i>Artemisia tukuchaensis</i> Kitam.			3200-3700			
145	<i>Artemisia vulgaris</i> L.	Mugwot		2300-5500			
146	<i>Askellia flexuosa</i> (Ledeb.) W.A.Weber	Tangled Hawksbeard		1500-4200			
147	<i>Aster ageratoides</i> Turcz	Whiteweed Aster		1800-3400			
148	<i>Aster albescens</i> (DC) Hand.-Mazz	Fading Himalayan Aster		1500-4200			
149	<i>Aster asteroides</i> (DC.) Kuntze			3800-4900			
150	<i>Aster barbellatus</i> Grierson			2500-4300			
151	<i>Aster diplostephioides</i> (DC.) Benth. ex C.B.Clarke	Creeping Aster		3200-4900			
152	<i>Aster falconeri</i> (C. B. Clarke) Hutch.			3000-4300			
153	<i>Aster flaccidus</i> Bunge	Alpine aster		3600-5200			
154	<i>Aster himalaicus</i> C.B. Clarke			3500-5200			
155	<i>Aster indamellus</i> Grierson		Lugmik	2100-4000			
156	<i>Aster molliusculus</i> (Lindl. ex DC.) C.B. Clarke	Swaying Himalayan Aster		1800-3300			
157	<i>Aster semiprostratus</i> (Grierson) H. Ikeda			3200-4600			
158	<i>Aster stracheyi</i> Hook.f.			3600-4500			
159	<i>Aster trinervius</i> Roxb. ex D. Don			1500-3000			
160	<i>Bidens bipinnata</i> L.	Spanish Needles	Thulo Kuro	900-2300			
161	<i>Bidens pilosa</i> L.	Beggar's Tick	Kalo kuro	700-2100			
162	<i>Caesulia axillaris</i> Roxb.	Pink Node Flower	Thuk Jhar	150-1500			
163	<i>Calendula officinalis</i> L.	Pot Marigold		2600-4400			
164	<i>Carduus edelbergii</i> Rech.f.			1500-4000			
165	<i>Carthamus tinctorius</i> L.	Saff flower		2800-4200			
166	<i>Cicerbita nepalensis</i> Kitag.			1600-3000			Endemic to Mustang
167	<i>Cirsium falconeri</i> (Hook.f.) Petrak	Falconer's thistle	Giddha Pwakhe	2700-4300			
168	<i>Cirsium verutum</i> (D. Don) Sprengel		Thakal	740-2200			
169	<i>Cirsium wallichii</i> DC.	Wallich's Thistle	Thakal Kanta	1200-3500			
170	<i>Crassocephalum crepidioides</i> (Benth.) S.Moore	Red-flower ragleaf	Anikale Jhar	400-1900			

171	<i>Cremanthodium arnicoides</i> (DC. ex Royle) R.D.Good	Himalayan daisy		3300-4800			
172	<i>Cremanthodium decaisnei</i> C.B.Clarke	Decaisne's Cremanthodium		3600-5000			
173	<i>Cremanthodium ellisii</i> (Hook.f.) Kitam.	Himalayan Mini Sunflower		3600-5500			
174	<i>Cremanthodium nepalense</i> Kitam.			2800-4900			
175	<i>Cremanthodium purpureifolium</i> Kitam.			3600-4900			
176	<i>Cremanthodium reniforme</i> (Wall. ex DC.) Benth.			3000-4600			
177	<i>Crepis elongata</i> Babc.			3000-3900			
178	<i>Crepis himalaica</i> Kitam.			3300			Endemic to Manang
179	<i>Dichrocephala integrifolia</i> (L.f.) Kunize	Graceful Buttonweed	Aachhun jhar	800-3000			
180	<i>Dolomiaea macrocephala</i> DC. ex Royle		Dhup	3200-4300			
181	<i>Dubyaea hispida</i> (D. Don) DC.	Bristly Dubyaea		2700-4300			
182	<i>Duhaldea cappa</i> (Buch.-Ham. ex D.Don) Pruski & Anderb.	Sheep's Ear	Gadhihare	1000-2500			
183	<i>Duhaldea cuspidata</i> (DC.) Anderb.	Lanceleaf Inula		300			
184	<i>Eclipta prostrata</i> (L.) L.	white eclipta	Bhringiraj	200-1500			
185	<i>Elephantopus scaber</i> L.	prickly-leaved elephant's foot	Sahasra Buti	200-1520			
186	<i>Emilia sonchifolia</i> (L.) DC.	Purple Sow Thistle	Chalune Jhar	500-1700			
187	<i>Erigeron emodi</i> I.M.Turner	Daisy Fleabane		1300-4300			
188	<i>Erigeron multiradiatus</i> (Lindl. ex DC.) Benth. & Hook.f.	Himalayan fleabane		2800-4500			
189	<i>Erigeron uniflorus</i> L.			2800-3100			
190	<i>Galinsoga parviflora</i> Cav.	Gallant soldier	Chittlange jhar	850-3000			
191	<i>Galinsoga quadriradiata</i> Ruiz & Pav.	Shaggy Sholier	Chittlange jhar	800-3000			
192	<i>Guizotia abyssinica</i> (L.f.) Cass.	Niger	Juse Til, Philinge	900-1900			
193	<i>Gynura cusimbua</i> (D.Don) S.Moore	Hill Gynura		1200-2500			
194	<i>Gynura nepalensis</i> DC.			250-2000			
195	<i>Helianthus annuus</i> L.	Sun flower	Sooryamukhee	1000-3000			
196	<i>Hippolytia gossypina</i> (C.B.Clarke) C.Shih			3800-5500			
197	<i>Inula hookeri</i> C.B. Clarke			2400-3700			
198	<i>Inula orientalis</i> Lam.			2000-3300			
199	<i>Inula racemosa</i> Hook. f.	Indian elecampane		2800-4200			
200	<i>Jacobaea analoga</i> (DC.) Veldkamp			1400-4000			
201	<i>Jacobaea graciliflora</i> (DC.) Sennikov	Graceful Senecio		2400-4600			
202	<i>Jacobaea raphanifolia</i> (Wall. ex DC.) B.Nord.	Radish-Leaved Senecio	Marchaa	2300-4300			
203	<i>Leibnitzia nepalensis</i> (Kunze) Kitam.			3000-3900			
204	<i>Leontopodium brachyactis</i> Gand.			3900-4800			
205	<i>Leontopodium himalayanum</i> DC.	Himalayan Edelweiss		3300-4500			
206	<i>Leontopodium jacotianum</i> Beauverd	Lion's foot		2700-4900			
207	<i>Leontopodium monocephalum</i> Edgew.	Golden Edelweiss		4600-5600			

208	<i>Leontopodium nanum</i> (Hook.f. & Thomson ex C.B.Clarke)HM			2300-4900			
209	<i>Leontopodium stracheyi</i> (Hook.f.) C.B.Clarke ex Hemsl.			2200-4500			
210	<i>Ligularia fischeri</i> (Ledeb.) Turcz.			2100-4600			
211	<i>Ligularia retusa</i> DC.			3000-4900			
212	<i>Melanoseris brunoniana</i> (Wall. ex DC.) N.Kilian & ZeH. Wang	Brown's Rattlesnake Root		2300-3800			
213	<i>Melanoseris lessertiana</i> (DC.) Decaisne			3000-5000			
214	<i>Melanoseris macrorhiza</i> (Royle) N.Kilian	Violet Dandelion		1300-4500			
215	<i>Nannoglottis hookeri</i> (C.B.Clarke ex Hook.f.) Kitam.			3400-4100			
216	<i>Onopordum acanthium</i> L.	Cotton Thistle		Upto 4000			
217	<i>Oreoseris nivea</i> DC.		Panda	3300-4500			
218	<i>Petasites tricholobus</i> Franch.			2800-3600			
219	<i>Picris hieracioides</i> Sibth. & Sm.	Hawkeed ox- Tongue		1800-3800			
220	<i>Pseudognaphalium affine</i> (D. Don) A.A. Anderberg			600-3700			
221	<i>Pseudognaphalium affine</i> (D.Don) Anderb.	Jersey cudweed	KairoJhar	600-3700			
222	<i>Pseudognaphalium hypoleucum</i> (DC.) Hilliard & B.L.Burt	White Leaved Cudweed		1500-2500			
223	<i>Saussurea chrysotricha</i> Ludlow			4300-4500			Endemic to ACA
224	<i>Saussurea eriostemon</i> Wall. ex C. B. Cl.			3200-4900			
225	<i>Saussurea fastuosa</i> (Decne.) Sch. Bip.			2500-3800			
226	<i>Saussurea gnaphalodes</i> (Royle ex DC.) Sch. Bip.			4000-5500			
227	<i>Saussurea gossypiphora</i> D. Don		Kapase phool	3500-5700			
228	<i>Saussurea graminifolia</i> Wall. ex DC.	Grass Leaved Saw-wort		3600-5600			
229	<i>Saussurea hookeri</i> C.B.Clarke			4600-4850			
230	<i>Saussurea kanaii</i> Fujikawa & H.Ohba			4420			Endemic to Mustang
231	<i>Saussurea platyphyllaria</i> Ludlow			4400-4700			Endemic to Jomsom
232	<i>Saussurea simpsoniana</i> (Fielding & Gardner) Lipsch.	Phen Kamal		3800-5600			
233	<i>Saussurea spicata</i> Kitam.			4000-5500			
234	<i>Saussurea stafleuana</i> Lipsch.			4267-4724			
235	<i>Saussurea stracheyana</i> (Kuntze) Lipsch.			2600-3300			
236	<i>Saussurea stracheyana</i> (Kuntze) Lipsch.			2600-3800			
237	<i>Saussurea tridactyla</i> Sch.-Bip. ex Hook. f.	Snow Lotus		4500-5800			
238	<i>Saussurea uniflora</i> (DC.) Wall. ex Sch. Bip.			3700-4700			
239	<i>Senecio albopurpureus</i> Kitam.			2800-3800			
240	<i>Serratula pallida</i> DC.			1400-3100			
241	<i>Solidago virgaurea</i> L.	European goldenrod		1800-3800			
242	<i>Sonchus wightianus</i> DC.	Corn Sowthistle		1100-2500			
243	<i>Sonchus wightianus</i> subsp. wallichianus (DC.) Boulos		Chorte	600-2500			
244	<i>Soroseris hookeriana</i> (C.B.Clarke) Stebbins			4300-5500			

245	<i>Soroiseris pumila</i> Stebbins			4300-5500			
246	<i>Synotis acuminata</i> (Wall. ex DC.) C. Jeffrey & Y.L. Chen			2100-3700			
247	<i>Synotis cappa</i> (Buch.-Ham. ex D. Don) C. Jeffrey & Y.L. Chen			2100-3300			
248	<i>Synotis chenopodiifolia</i> (DC.) M.Tang, C.Ren & Q.E.Yang			3600-4000			
249	<i>Synotis kunthiana</i> (Wall. ex DC.) C. Jeffrey & Y.L. Chen			3600-4100			
250	<i>Synotis managensis</i> S. Joshi, K. Shrestha, and D. Bajracharya			-			Endemic to Mustang
251	<i>Synotis wallichii</i> (DC.) C. Jeffrey & Y.L. Chen			2400-3300			
252	<i>Tagetes erecta</i> L.	African marigold	Sayapatri	900-2000			
253	<i>Tagetes minuta</i> L.	Mexican Marigold		2400			
254	<i>Tanacetum cinerariifolium</i> (Trevis.) Sch.Bip.	Pyrethrum	Godavari pool	1000-2000			
255	<i>Taraxacum campylodes</i> G.E.Haglund			1600-4000			
256	<i>Taraxacum eriopodum</i> DC.			2700-3500			
257	<i>Taraxacum nepalense</i> Soest			2700-3400			Endemic to Jomsom
258	<i>Taraxacum staintonii</i> Soest			2700-2900			
259	<i>Taraxacum tibetanum</i> Hand.-Mazz.			4000-4300			
260	<i>Taraxacum sect. Taraxacum</i> F.H.Wigg.		Tuki Phool	2700-3750			
261	<i>Tragopogon dubius</i> Scop.			1500-3600			
262	<i>Tragopogon gracilis</i> D.Don			1500-3200			
263	<i>Tussilago farfara</i> L.	Coltsfoot		2700-3800			
Balsaminaceae							
264	<i>Impatiens bicornuta</i> Wallich			1900-2600			
265	<i>Impatiens edgeworthii</i> Hook.f.	Edgeworth's balsam		1500-2700			
266	<i>Impatiens falcifer</i> Hook. f.	Sickle balsam		2500-3400			
267	<i>Impatiens glandulifera</i> Royle	Himalayan balsam		2500-4200			
268	<i>Impatiens gorepaniensis</i> Grey-Wilson			2850-3000			Endemic to ACA
269	<i>Impatiens racemosa</i> DC.		Anchirna	1300-3900			
270	<i>Impatiens recticalcarata</i> S.Akiyama			2700			
271	<i>Impatiens scabrida</i> DC.	Scabby balsam	Tiuri Jhar	1000-3600			
272	<i>Impatiens scullyi</i> Hook.f.	Scully's Balsam		1800-3630			
273	<i>Impatiens sulcata</i> Wallich			1800-2600			
274	<i>Impatiens urticifolia</i> Wallich			2700-3800			
Begoniaceae							
275	<i>Begonia dioica</i> Buch. -Ham. ex D.Don	Three-Petal Begonia		2000-2900			
276	<i>Begonia palmata</i> D. Don			1500-2400			
277	<i>Begonia picta</i> Smith.		Magarkanche	600-2800			
278	<i>Begonia rubella</i> Buch. -Ham. ex D. Don		Bhiramila	600-2000			
Berberidaceae							

279	<i>Berberis angulosa</i> Wallich ex Hook. f. & Thoms	Large-Flowered Barberry	Chutre kanda	3400-4500					
280	<i>Berberis aristata</i> DC.	Nepal barberry	Chutro	1800-3000					
281	<i>Berberis asiatica</i> Roxb. ex DC.	Indian barberry	Chutro, Chotar	1200-2500					
282	<i>Berberis ceratophylla</i> G. Don		Kyerpa	1800-4000					
283	<i>Berberis chitria</i> Buch. -Ham. ex Lindl.		Chutro	2000-3700					
284	<i>Berberis concinna</i> Hook.f.			2800-4400					
285	<i>Berberis erythroclada</i> Ahrendt	Ridged Stem Barberry		3000-4500					
286	<i>Berberis hobsonii</i> Ahrendt.			2700					
287	<i>Berberis jaeschkeana</i> C .K. Schneid.	Jaeschke's barberry		2700-4000					
288	<i>Berberis koehneana</i> C.K.Schneid.	Koehne Barberry		2800-3500					
289	<i>Berberis lycium</i> Royle	Indian Lycium		1500-3000					
290	<i>Berberis mucrifolia</i> Ahrendt			2100-4500				Endemic to Jomsom	
291	<i>Berberis napaulensis</i> (DC.) Spreng.	Nepal Mahonia	Kanchan	2000-2900					
292	<i>Berberis pendryi</i> Bh. Adhikari			3600-3700				Endemic to Mustang	
293	<i>Berberis ulicina</i> Hook.f. & Thomson			2800-3000					
294	<i>Berberis wallichiana</i> DC.		Bahremaase Chutro	2000-3000					
295	<i>Podophyllum hexandrum</i> Royle	Himalayan May-apple	Laghu patra	3000-4500		II			
Betulaceae									
296	<i>Alnus nepalensis</i> D. Don	Nepalese Alder	Uttis, Giunsin	500-3000					
297	<i>Alnus nitida</i> (Spach) Endl	West Himalayn Alder		1000-3000	LC				
298	<i>Betula alnoides</i> Buch.-Ham. ex D.Don	Indian Birch	Saur, Chiyober	1500-2700					
299	<i>Betula utilis</i> D. Don	Himalayan Silver Birch	Bhojpatra	2700-4300					
Bignoniaceae									
300	<i>Incarvillea diffusa</i> Royle	Himalayan Gloxinia	Maruwa Pati	1800-3500					
301	<i>Incarvillea mairei</i> (H.Lév.) Grierson			3000-4700					
302	<i>Incarvillea younghusbandii</i> Sprague			4000-5500					
303	<i>Oroxylum indicum</i> (L.) Kurz	Broken Bones Plant	Totala	400-1400					
Boraginaceae									
304	<i>Arnebia benthamii</i> (Wall. ex G.Don) I.M.Johnst.			3000-4300					
305	<i>Arnebia euchroma</i> (Royle) I. M. Johnst.			3300-4500					
306	<i>Cynoglossum wallichii</i> G.Don			1200-4000					
307	<i>Cynoglossum zeylanicum</i> (Sw. ex Lehm.) Thunb. ex Brand	Ceylon forget-me-not	kanike kuro	2500-3500					
308	<i>Decalepidanthus racemosus</i> (Royle ex Benth.) D. & Hilger			1800-3000					
309	<i>Eritrichium canum</i> (Benth.) Kitam.			2400-4600					
310	<i>Eritrichium minimum</i> (Brand) H.Hara			2400-3500					
311	<i>Hackelia uncinata</i> (Royle ex Benth.) C.E.C.Fisch.			2700-4200					
312	<i>Lindelofia longiflora</i> (Benth.) Baill.			3300-4600					

313	<i>Maharanga bicolor</i> (Wall.ex G. Don) A. DC.			2100-3000			
314	<i>Maharanga emodi</i> (Wall.) A. DC.		Mahaarangee	2200-4500			
315	<i>Maharanga wallichiana</i> DC.			2400-3600			
316	<i>Microula mustangensis</i> Yonek.			4200-4800			Endemic to Mustang
317	<i>Microula sikkimensis</i> (C.B. Clarke) Hemsl.			3500-4600			
318	<i>Onosma bracteata</i> Wall.			3300-5000			
319	<i>Onosma hookeri</i> C. B. Clarke			4100-4500			
Brassicaceae							
320	<i>Aphragmus oxycarpus</i> (Hook.f. & Thomson) Jafri	Ladakh rock-cress		3600-5800			
321	<i>Arabis amplexicaulis</i> Edgew.	Stem-clasping rock-cress		1500-2700			
322	<i>Arabis pterosperma</i> Edgew.	Alpine Rock-cress		2500-3200			
323	<i>Barbarea intermedia</i> Boreau	Early Winter Cress		3000-4300			
324	<i>Brassica juncea</i> (L.) Czern.	Brown Mustard	Tori	Upto 3600			
325	<i>Brassica oleracea</i> L.	Couliflower/cabbage		Upto 3000			
326	<i>Brassica rapa</i> L.	Common turnip	Shalgam	3100-3500			
327	<i>Capsella bursa-pastoris</i> (L.) Medik.	Shepherd's purse		1800-4500			
328	<i>Cardamine flexuosa</i> With.	Flexuous bitter cress		1000-4000			
329	<i>Cardamine loxostemonoides</i> O.E.Schulz	Cuckoo flower		3000-5000			
330	<i>Cardamine macrophylla</i> Willd.	Bitter cress		2100-4500			
331	<i>Cardamine violacea</i> (D.Don) Wall.			2500-3600			
332	<i>Christolea crassifolia</i> Cambess.	Afghani Christolea		3300-4200			
333	<i>Crucihimalaya himalaica</i> (Edgew.) Al- Shehbaz, O'Kane &Price	Himalayan rock cress		2400-4300			
334	<i>Descurainia sophia</i> (L.) Webb ex Prantl	Herb sophia		2200-4400			
335	<i>Dontostemon glandulosus</i> (Kar. & Kir.) O.E.Schulz			2800-4100			
336	<i>Draba altaica</i> (C.A.Mey.) Bunge	Whitlow grass		3900-5000			
337	<i>Draba amoena</i> O.E.Schulz	Whitlow grass		3300-4800			
338	<i>Draba macbeathiana</i> Al-Shehbaz			5273			Endemic to Manang
339	<i>Erysimum benthamii</i> Monnet			3000-4000			
340	<i>Erysimum odoratum</i> Ehrh.	European wallflower		1600-3800			
341	<i>Eutrema lowndesii</i> (H.Hara) Al-Shehbaz & Warwick			5000			
342	<i>Isatis costata</i> C. Meyer			1500-2700			
343	<i>Lepidium apetalum</i> Willd.	Peppercress	Darya Ken	3000-3400			
344	<i>Lepidostemon williamsii</i> (H.Hara) Al-Shehbaz			3200			Endemic to Mustang
345	<i>Nasturtium officinale</i> W.T.Aiton	True water cress	Sim sag	1400-4000			
346	<i>Noccaea andersonii</i> (Hook.f. & Thomson) Al-Shehbaz	Himalayan penny cress		3000-4400			
347	<i>Noccaea caerulescens</i> (J.Presl & C.Presl) F.K.Mey.			2700-5500			
348	<i>Pycnoplithopsis bhutanica</i> Jafri			3200-4500			

349	<i>Raphanus raphanistrum</i> L.	Wild Radish	Moola	Upto 3500				
350	<i>Rorippa dubia</i> (Pers.) H.Hara	Diverse-leaf yellow cress		1200-2000				
351	<i>Solms-laubachia himalayensis</i> (Cambess.) J.P.Yue, Al-Shehbaz & H.Sun			4500-5700				
352	<i>Thlaspi arvense</i> L.	Bastard cress	Tite Chumu	2100-4500				
353	<i>Turritis glabra</i> L.	Tower cress		1500-3000				
Burseraceae								
354	<i>Garuga pinnata</i> Roxb.	Grey downy balsam	Ramsinghe	300-1200				
Buxaceae								
355	<i>Sarcococca coriacea</i> (Hook.) Sweet	Willow-Leaf Sweet-Box	Phittephium	600-3600				
356	<i>Sarcococca hookerana</i> Baillon			1800-3500				
357	<i>Sarcococca saligna</i> (D.Don) Müll.Arg.	willow-leaf sweet-box		1900-2300				
358	<i>Sarcococca wallichii</i> Stapf		Baakhre Ghaans	1800				
Cactaceae								
359	<i>Opuntia monacantha</i> Haw.	Drooping Prickly Pear	Paate Siundi	Upto 1800				
Campanulaceae								
360	<i>Asyneuma fulgens</i> (Wall.) Briq.			1500-3000				
361	<i>Campanula argyrotricha</i> Wall. ex A.DC.			3000-4700				
362	<i>Campanula pallida</i> Wallich		Nepali bikh	1000-4500				
363	<i>Codonopsis bragaensis</i> Grey-Wilson			2500-3321				Endemic to Manang
364	<i>Codonopsis clematidea</i> (Schrenk) C. B. Clarke			2400-4200				
365	<i>Codonopsis convolvulacea</i> Kurz			2800-3900				
366	<i>Codonopsis convolvulacea</i> subsp. <i>grey-wilsonii</i> (J.M.H.Shaw) D.Y.Hong			2000-2900				
367	<i>Codonopsis rotundifolia</i> Benth.			3200				
368	<i>Codonopsis thalictrifolia</i> Wall.			3300-4800				
369	<i>Codonopsis viridis</i> Wall.	Green Bellflower Vine		1200-3000				
370	<i>Cyananthus hookeri</i> C.B.Clarke			2600-4200				
371	<i>Cyananthus incanus</i> Hook.f. & Thomson			2100-4500				
372	<i>Cyananthus lobatus</i> Wallich ex Benth.			3300-4700				
373	<i>Cyananthus microphyllus</i> Edgew.	Small Leaved Trailing Bellflower		2900-4800				
374	<i>Himalacodon dicentrifolius</i> (C.B.Clarke) D.Y.Hong & Qiang Wang			3000-4000				
375	<i>Lobelia nicotianifolia</i> Roth	Wild tobacco		2500-3200				
376	<i>Lobelia pyramidalis</i> Wallich		Eklebir	1100-2300				
377	<i>Pankycodon purpureus</i> (Wall.) D.Y.Hong & X.T.Ma			1600-3000				
378	<i>Pseudocodon convolvulaceus</i> (Kurz) D.Y.Hong & H.Sun			2800-3900				
Cannabaceae								
379	<i>Cannabis sativa</i> L.	Hemp	Ganja/Bhang	200-2700				
380	<i>Celtis australis</i> L.	Eastern Nettle Tree	Khari	1300-2200				

Capparaceae								
381	<i>Capparis spinosa</i> L.	Caperberry		200-2700				
382	<i>Crateva unilocularis</i> Buch.-Ham.		Sipligan	Upto 1700				
Caprifoliaceae								
383	<i>Abelia triflora</i> (R.Br. ex Wall.) Makino ex Hisauti & H.Hara			1500-4200				
384	<i>Dipsacus inermis</i> Wall.	Himalayan Teasel	Mula Pat	1400-4100				
385	<i>Leycesteria formosa</i> Wall.	Flowering Nutmeg		2000-3200				
386	<i>Lonicera acuminata</i> Wall.	Vine Honeysuckle		2100-3600				
387	<i>Lonicera angustifolia</i> var. <i>myrtillosa</i> (Look & Thomson) et al.	Honeysuckle		2200-4200				
388	<i>Lonicera angustifolia</i> Wall. ex DC.	Narrow-Leaved Honeysuckle		2200-4200				
389	<i>Lonicera glabrata</i> Wall.	Wild Honeysuckle		1200-2400				
390	<i>Lonicera hispida</i> Pall. ex Roem. & Schult.	Common honeysuckle		2900-4500				
391	<i>Lonicera hypoleuca</i> Decne.	Yellow Himalayan honeysuckle		2700-4200				
392	<i>Lonicera myrtilloides</i> Purpus			2600-4000				
393	<i>Lonicera obovata</i> Royle ex Hook.f. & Thomson			3300-4400				
394	<i>Lonicera purpurascens</i> (Jacquem. ex Decne.) Walp.			2400-3600				
395	<i>Lonicera quinquelocularis</i> Hardw.			1500-3000				
396	<i>Lonicera rupicola</i> Hook. f. & Thomson	Honeysuckle		3600-4800				
397	<i>Lonicera spinosa</i> (Decne.) Jacq. ex Walp.	Spiny honeysuckle		3600-4600				
398	<i>Morina coulteriana</i> Royle	Yellow Whorlflower		2400-3600				
399	<i>Morina nepalensis</i> D. Don			3000-4500				
400	<i>Morina polyphylla</i> Wall. ex DC.			3000-4300				
401	<i>Nardostachys jatamansi</i> (D.Don) DC.	Muskroot	Jatamansi	3200-5000	CR	II		P
402	<i>Pteroccephalus hookeri</i> (C.B.Clarke) E.Pritz.			3000-4500				
403	<i>Triosteum himalayanum</i> Wall.	Feverwort		2800-4000				
404	<i>Valeriana jatamansii</i> Jones	Indian valerian	Sugandawal	1500-3600				p
Caryophyllaceae								
405	<i>Arenaria densissima</i> Wall. ex Edgew. & Hook.f.			3500-5500				
406	<i>Arenaria orbiculata</i> Royle ex Edgew. & Hook. f			900-4400				
407	<i>Arenaria polytrichoides</i> Edgew.			4300-5500				
408	<i>Cerastium davuricum</i> Fisch. ex Spreng.			3000-4000				
409	<i>Dichodon cerastoides</i> (L.) Rchb.	Mountain Chickweed		3000-4800				
410	<i>Drymaria cordata</i> (L.) Willd. ex Schult.		Abijalo	2200-4300				
411	<i>Drymaria cordata</i> subsp. <i>Diandra</i> (Blume) J.A. Duke			700-2000				
412	<i>Eremogone bryophylla</i> (Fernald) Pusalkar & D.K.Singh	Flycatcher Sandwort		4300-5700				
413	<i>Eremogone edgeworthiana</i> (Majumdar) Pusalkar & D.K.Singh			4500-5100				
414	<i>Eremogone festucoides</i> (Benth.) Pusalkar & D.K.Singh	Fescue Sandwort		3600-4500				

415	<i>Eremogone mukerjeeana</i> (Majumdar) Rabeler & W.L.Wagner			3200-4400			Endemic to Muktinath
416	<i>Gypsophila cerastoides</i> D. Don			2100-4700			
417	<i>Odontostemma paramelanandrum</i> (H.Hara) Rabeler & W.L.Wagner			4200-5200			Endemic to ACA
418	<i>Pseudostellaria heterantha</i> (Maxim.) Pax			2700-3800			
419	<i>Shivparvatia glanduligera</i> (Edgew.) Pusalkar & D.K.Singh			4000-5500			
420	<i>Silene conoidea</i> L.	Cone Campion		1500-2500			
421	<i>Silene gonosperma</i> (Rupr.) Bocquet			3000-5500			
422	<i>Silene helleboriflora</i> Exell & Bocquet			3000-5000			Endemic to Mustang
423	<i>Silene hideakiohbae</i> Rajbh. & mituo Suzuki			2520			Endemic to Mustang
424	<i>Silene himalayensis</i> (Rohrb.) Majumdar			3000-3300			
425	<i>Silene holosteifolia</i> Bocquet & Chater			2700-3600			Endemic to Nepal
426	<i>Silene indica</i> Roxb. ex Otth			2000-4500			
427	<i>Silene longicarpophora</i> (Kom.) Bocquet			3600-4800			
428	<i>Silene nigrescens</i> (Edgew.) Majumdar			3500-5200			
429	<i>Silene setaesperma</i> Majumdar	Himalayan Campion		3400-4700			
430	<i>Silene stellariifolia</i> Bocquet & Chater			1677			Endemic to Kaski
431	<i>Silene stracheyi</i> Edgew.		Nemsi	3900			
432	<i>Silene vautierae</i> Bocquet			3500-5500			Endemic to Mustang
433	<i>Silene vulgaris</i> (Moench) Garcke	Bladder Campion		2000-3000			
434	<i>Stellaria congestiflora</i> H.Hara			4000-4700			
435	<i>Stellaria decumbens</i> Edgew.	Chickweed		3200-6135			
436	<i>Stellaria himalayensis</i> Majumdar			2600-3400			
437	<i>Stellaria media</i> (L.) Vill	Common Chickweed		1800-2700			
438	<i>Stellaria patens</i> D. Don			3000-4000			
439	<i>Thylacospermum caespitosum</i> (Cambess.) Schischk.	Golden Alpine Sandwort		4800-5700			
Celastraceae							
440	<i>Euonymus echinatus</i> Wall.	Climbing Spindle Bush		1500-2700			
441	<i>Euonymus fimbriatus</i> Wall.			2800-3000			
442	<i>Euonymus hamiltonianus</i> Wall.	Hamilton's spindle	Ban Chitu	700-2700			
443	<i>Euonymus tingens</i> Wall.			2300-3300			
444	<i>Gymnosporia rufa</i> (Wall.) Hook.f.	Rusty Spike Thorn	Kaande Khasru	600-2200			
445	<i>Parnassia nubicola</i> Wall. ex Royle	Himalayan Bog Star	Mamire	3100-4300			
446	<i>Parnassia wightiana</i> Wall. ex Wight & Arn.			2700-3600			
Convolvulaceae							
447	<i>Argyreia nervosa</i> (Burm. f.) Boj.	Elephant creeper	Samundrafal	300			
448	<i>Convolvulus arvensis</i> L.	Field Bindweed		100-4100			
449	<i>Cuscuta europaea</i> var. <i>indica</i> Ebgelm.			2700-4000			
450	<i>Cuscuta europaea</i> var. <i>nepalensis</i> Yunck.			2300			Endemic to Nepal

451	<i>Cuscuta reflexa</i> var. <i>reflexa</i> Roxb.	Dodder/Amar Bel	Aakash beli	600-3300				
452	<i>Cuscuta reflexa</i> var. <i>brachystigma</i> Engelm.	Dodder/Amar Bel	Amarlata	200-2200				
453	<i>Ipomoea muricata</i> (L.) Jacq.	Purple Moonflower	Lahare saag	900-1400				
454	<i>Ipomoea purpurea</i> (L.) Roth.	Purple Morning Glory		100-2400				
455	<i>Ipomoea quamoclit</i> L.	Cypress Vine		Upto 1200				
Coriariaceae								
456	<i>Coriaria nepalensis</i> Wallich	Masuri Berry	Machhyano	1000-2700				
Cornaceae								
457	<i>Cornus capitata</i> Wall.	Himalayan Strawberry Tree	Dimmer	1200-3400				
458	<i>Cornus macrophylla</i> Wall.	Large Leaf Dogwood		1200-3000				
459	<i>Cornus oblonga</i> Wall.	Oblong-Petal Dogwood	Laato Kaath	1000-2600				
Crassulaceae								
460	<i>Crassula schimperi</i> Fisch. & C.A.Mey.			1800				
461	<i>Rhodiola bupleuroides</i> (Wall. ex Hook.f. & Thomson) S.H.Fu			2000-5100				
462	<i>Rhodiola himalensis</i> (D. Don) S.H. Fu	Himalayan Rhodiola		3600-5400				
463	<i>Rhodiola nepalica</i> (H.Ohba) H.Ohba			3700-4500				Endemic to Mustang
464	<i>Rhodiola prainii</i> (Raym.-Hamet) H.Ohba			4000-4500				
465	<i>Rhodiola quadrifida</i> (Pall.) Fisch. & C.A.Mey.			3300-4200				
466	<i>Rhodiola wallichiana</i> (Hook.) S.H. Fu			3600-5400				
467	<i>Rosularia marnieri</i> (Raym.-Hamet ex H.Ohba) H.Ohba			3500-4300				Endemic to ACA
468	<i>Sedum filipes</i> Hemsl.			2400				
469	<i>Sedum oreades</i> (Decne.) R.-Hamet	Mountain Sedum		3200-5200				
470	<i>Sedum pseudomulticaule</i> H.Ohba			2100				Endemic to ACA
471	<i>Sedum trullipetalum</i> Hook. & Thoms.			3600-4700				
Cucurbitaceae								
472	<i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai	Water melon	Bitterapple	1000-3000				
473	<i>Coccinia grandis</i> (L.) Voigt.	Ivy gourd	Kundruk	200-900				
474	<i>Cucumis sativus</i> L.	Cucumber	Kankro	Upto 2000				
475	<i>Gomphogyne nepalensis</i> W. J. de Wilde & Duyfjes							Endemic to Mustang
476	<i>Herpetospermum pedunculatum</i> (Ser.) C.B. Clarke		kurkure Kankro	1500 3600				
477	<i>Solena amplexicaulis</i> (Lam.) Gandhi			1600-3200				
478	<i>Trichosanthes dioica</i> Roxb.		Parbar	Upto 2000				
479	<i>Trichosanthes tricuspidata</i> Lour.	Bitter Snake Gourd	Indreni	1880				
480	<i>Zehneria mucronata</i> (Blume) Miq.							
Daphniphyllaceae								
481	<i>Daphniphyllum himalense</i> (Benth.) Müll.Arg.	Chebal	Chandan	1400-3000				
Dipterocarpaceae								

482	<i>Shorea robusta</i> C.F.Gaertn.	Sal Tree	Sal tree, agrakh	Upto 1500				P
Ebnaceae								
483	<i>Diospyros virginiana</i> L.	American Persimmon		Upto 2000				
Elaeagnaceae								
484	<i>Elaeagnus caudata</i> Schldtl. ex Momiy.	Bastard Oleaster		2400-3500				
485	<i>Elaeagnus infundibularis</i> Momiy.		Gunyal, Madilo	1500-2500				
486	<i>Elaeagnus parvifolia</i> Wall. ex Royle	Autumn Olive	Guyeli, Timor	1300-3000				
487	<i>Elaeagnus rhamnoides</i> (L.) A.Nelson			3300-4500				
488	<i>Elaeagnus tricholepis</i> Momiy.			1600-2500				Endemic to ACA
489	<i>Hippophae rhamnoides</i> var. <i>turkestanica</i> Rousi			2100-3600				
490	<i>Hippophae salicifolia</i> D. Don	Sea-Buck Thorn	Ashuk, Chugo	2000-3500				
491	<i>Hippophae tibetana</i> Schldtl.	Sea-Buck Thorn	Chugo	3300-4500				
Ericaceae								
492	<i>Cassiope fastigiata</i> (Wall.) D. Don	Himalayan Heather	Phallu	2800-5000				
493	<i>Gaultheria fragrantissima</i> Wall.	Fragrant Wintergreen	Patpate	1200-2700				
494	<i>Gaultheria nummularioides</i> D.Don		Bhui Ghangaaru	2100-4100				
495	<i>Gaultheria trichophylla</i> Royle	Himalayan Snowberry	Kaaligedee	2700-4500				
496	<i>Lyonia ovalifolia</i> (Wall.) Drude	Oval Leaved Lyonina	Angeri, Anjir	1300-3300				
497	<i>Lyonia villosa</i> (Hook.f. ex C.B.Clarke) Hand.-Mazz.	Hairy Staggerbush		2100-3800				
498	<i>Pieris formosa</i> (Wall.) D. Don	Himalayan Pieris	Chimal	2000-3300				
499	<i>Rhododendron anthopogon</i> D. Don	Dwarf Rhododendron	Sunpate	3000-4800				
500	<i>Rhododendron anthopogon</i> var. <i>anthopogon</i> D. Don			3300-5000				
501	<i>Rhododendron anthopogon</i> subsp. <i>hypenanthum</i> (Balf.f.) Cullen		Sunpate	3300-5000				
502	<i>Rhododendron arboreum</i> Sm.	Tree Rhododendron	Larigurans	2800-3600				
503	<i>Rhododendron arboreum</i> var. <i>album</i> Wall.	1500-3600						
504	<i>Rhododendron arboreum</i> var. <i>arboreum</i> Wall.	1500-3600						
505	<i>Rhododendron barbatum</i> Wall. ex G.Don		Gurans	2400-3600				
506	<i>Rhododendron campanulatum</i> D.Don		Nilo Chimal,	3000-4400				
507	<i>Rhododendron cowanianum</i> Davidian			3000-3900				Endemic to ACA
508	<i>Rhododendron lepidotum</i> Wall. ex G.Don	Pink Scaly Rhododendron	Bhaale Sunpati	2100-4700				
509	<i>Rhododendron lowndesii</i> Davidian			2400-4500				Endemic to ACA
510	<i>Rhododendron nivale</i> Hook. f.	Dwarf Snow Rhododendron		4500-5600				
511	<i>Rhododendron setosum</i> D. Don	Bristly Rhododendron		3600-5000				
512	<i>Vaccinium nummularia</i> Hook.f. & Thomson ex C.B.Clarke			2400-4000				
Eriocaulaceae								
513	<i>Eriocaulon nepalense</i> J.D.Prescott ex Bong.			1500-3000				
Euphorbiaceae								
514	<i>Euphorbia cashmeriana</i> Royle			2100-3600				

515	<i>Euphorbia helioscopia</i> L.	Sun Spurge		300-1800				
516	<i>Euphorbia hirta</i> L.	Asthma herb	Rato Maslahare	150-1500				
517	<i>Euphorbia milii</i> Des Moul.	Crown-of-thorns		900-1500	LC	II		
518	<i>Euphorbia pulcherrima</i> Willd. ex Klotzsch	Poinsettia	Lalupate	1100-1200				
519	<i>Euphorbia royleana</i> Boiss.	Danda Thor	Siund	Upto 1800		II		
520	<i>Euphorbia stracheyi</i> Boiss.			3300-4700				
521	<i>Euphorbia wallichii</i> Hook. f.	Wallich Spurge		230-3700				
522	<i>Excoecaria acerifolia</i> Didr.		Godasilo	1100-2000				
523	<i>Falconeria insignis</i> Royle	Tiger's Milk Spruce	Khirro	500-1800				
524	<i>Jatropha curcas</i> L.	Physic Nut/ Jatropha	Sajwan	500-1200				
525	<i>Macaranga denticulata</i> (Blume) Müll.Arg.	Blistery Macaranga	Maleto, Mallato	900-1800				
526	<i>Mallotus philippensis</i> (Lam.) Mull. Arg.	Monkey Face Tree	Rohini, Sindure	Upto 1800				
527	<i>Ricinus communis</i> L.	Castor/ Ricin Plant	Adil	Upto2400				
Fabaceae								
528	<i>Albizia chinensis</i> (Osbeck) Merr.	Chinese albizia	KaloShiris,	200-1500				
529	<i>Albizia julibrissin</i> var. <i>mollis</i> (Wall.) Benth.	Pink Silk Tree	Sirish, Kresin	1000-3000				
530	<i>Albizia lebbek</i> (L.) Benth.	Black Siris	Sirish, Kresin	Upto1200	LC			
531	<i>Apios carnea</i> (Wall.) Benth. ex Baker			1200-2400				
532	<i>Argyrolobium roseum</i> (Cambess.) Jaub. & Spach			1900-3200				
533	<i>Astragalus barclayanus</i> Podlech			2620-4820				Endemic to Manang
534	<i>Astragalus himalayanus</i> Klotzsch	Himalayan Milk Vetch		3500-4500				
535	<i>Astragalus leucocephalus</i> Benth.		Nokyopapu	1500-4700				
536	<i>Astragalus lobbichleri</i> Podlech			3700				Endemic to Manang
537	<i>Astragalus nakaoui</i> Kitam.			3800				Endemic to Nepal
538	<i>Astragalus nepalensis</i> Podlech			2590				Endemic to Mustang
539	<i>Astragalus notabilis</i> Podlech			3450				Endemic to Manang
540	<i>Astragalus rhizanthus</i> Benth.			3000-3400				
541	<i>Astragalus rhizanthus</i> subsp. <i>candolleanus</i> (Royle ex Benth.) Podlech			2700-4500				
542	<i>Astragalus strictus</i> Benth.			2100-3500				
543	<i>Bauhinia purpurea</i> L.	Purple orchid tree	Tanki, Tay	Upto1600				
544	<i>Bauhinia variegata</i> L.	White-purple Orchid Tree	Koiralo	Upto1900				
545	<i>Butea buteiformis</i> (Voigt) Grierson	Shrub Butea	Bhujetro	300-2000				
546	<i>Caesalpinia cucullata</i> Roxb.	Hooded-flowered Brasiletto	Boksi Kanda	Upto1800				
547	<i>Caesalpinia decapetala</i> (Roth) Alston	Cat's Claw	Arile Kanda	Upto2200				
548	<i>Caragana brevifolia</i> Kom.			3300-4500				
549	<i>Caragana brevispina</i> Benth.			2400-3200				

550	<i>Caragana campanulata</i> Vassilcz.			3200-3500				Endemic to Nepal
551	<i>Caragana gerrardiana</i> Benth.			3000-4200				
552	<i>Caragana jubata</i> (Pall.) Poir.			3300-4000				
553	<i>Caragana sukiensis</i> C. K. Schneid.		Phutsitsema	2400-3600				
554	<i>Caragana versicolor</i> Benth.			3600-4800				
555	<i>Chesneya cuneata</i> (Benth.) Ali			2400-4000				
556	<i>Chesneya nubigena</i> (D.Don) Ali			3000-5200				
557	<i>Colutea multiflora</i> Shap. ex Ali			2100-2900				
558	<i>Crotalaria tetragona</i> Roxb. ex Andrews	Eastern Rattlepod	Bhugan	Upto1700				
559	<i>Dalbergia sissoo</i> Roxb. ex DC.	Sissoo	Shisham	Upto1500	LC	II		
560	<i>Desmodium elegans</i> DC.	Elegant Desmodium		1200-3000				
561	<i>Erythrina arborescens</i> Roxb.	Himalayan Coral Tree	Theki Kath	1500-3000				
562	<i>Erythrina stricta</i> Roxb.	Indian Coral tree	Phaledo	Upto1600				
563	<i>Flemingia strobilifera</i> (L.) W.T.Aiton	Luck Plant	Bhamase	Upto2300				
564	<i>Glycine max</i> (L.) Merr.	Soyabean	Bhattmas	Upto1700				
565	<i>Haymondia wallichii</i> (DC.) A.N.Egan & B.Pan			900-2000				
566	<i>Hedysarum cachemirianum</i> Benth. ex Baker			2700-4000				
567	<i>Hedysarum campylocarpon</i> H.Ohashi			2500-4600				
568	<i>Hedysarum manaslense</i> (Kitam.)H.Ohashi			3000-3500				Endemic to ACA
569	<i>Hylodesmum williamsii</i> (H.Ohashi) H.Ohashi & R.R.Mill			2400-2600				
570	<i>Indigofera atropurpurea</i> Buch.-Ham. ex Hornem.		Saakhinu / Neer	700-3200				
571	<i>Indigofera cassioides</i> Rottler ex DC.	Cassia Indigo	Phusre Ghaans	300-1700				
572	<i>Indigofera dosua</i> Buch.-Ham. ex D.Don		Chiringi jhar	600-3000				
573	<i>Indigofera heterantha</i> Wall. ex Brandis	Himalayan Indigo	Saakhino	600-3100				
574	<i>Lotus corniculatus</i> L.	Bird's-foot Trefoil		3000-3500				
575	<i>Medicago edgeworthii</i> Sirj.			1500-3000				
576	<i>Medicago falcata</i> L.		Bhirin saag	2700-4000				
577	<i>Medicago lupulina</i> L.	Yellow Trefoil		2500-3700				
578	<i>Medicago sativa</i> L.	Alfalfa		2800-4000				
579	<i>Melilotus officinalis</i> (L.) Lam.	Yellow Sweet Clover		2800-4000				
580	<i>Mimosa pudica</i> L.	Sensitive Plant	Laijabati, Buhan	Upto1900	LC			
581	<i>Mimosa rubicaulis</i> Lam.	Himalayan Mimosa	Bokdi Ghans	300-1900				
582	<i>Ototropis multiflora</i> (DC.) H.Ohashi & K.Ohashi			600-2600				
583	<i>Oxytropis arenae-ripariae</i> Vassilcz.			4500-4700				Endemic to ACA
584	<i>Oxytropis graminetorum</i> Vassilcz.			3800-4300				Endemic to Mustang
585	<i>Oxytropis humifusa</i> Kar. & Kir.			3000-5200				
586	<i>Oxytropis microphylla</i> (Pall.) DC.	Small Leaved Locoweed		2700-4700				
587	<i>Oxytropis nepalensis</i> Vassilcz.			3500-4100				Endemic to

588	<i>Oxytropis williamsii</i> Vassilcz.			2400-4400				Mustang Endemic to Mustang
589	<i>Parochetus communis</i> Buch.-Ham. ex D.Don	Blue Oxalis	Jangali Badame	900-4300	LC			
590	<i>Phanera vahlii</i> (Wight & Arn.) Benth.	Camel's foot climber	Bhoria, Boria	Upto1500				
591	<i>Phyllolobium donianum</i> (DC.) M.L.Zhang & Podlech			2900-4500				
592	<i>Piptanthus nepalensis</i> (Hook.)D.Don	Evergreen Laburnum	Suga Phool	2000-3800				
593	<i>Pisum sativum</i> L.	Pea	Kerau	Upto4400				
594	<i>Pueraria tuberosa</i> (Roxb. ex Willd.) DC.	Indian kudzu	Baralikunda	300-2000				
595	<i>Saraca asoca</i> (Roxb.) W.J.de Wilde	Ashok tree	Ashok	Upto1400	VU			
596	<i>Senegalia intsia</i> (L.) Maslin, Seigler & Ebinger		Arkhu	Upto1100				
597	<i>Senna floribunda</i> (Cav.)H.S.Irwin & Barneby			Upto2200				
598	<i>Senna occidentalis</i> (L.)Link	Coffee-senna	Panwar	Upto1400				
599	<i>Senna tora</i> (L.) Roxb.	Sickle Senna	Tapre	Upto1500				
600	<i>Sophora mollis</i> (Royle) Graham ex Baker			1200-2000				
601	<i>Sophora moorcroftiana</i> (Benth.) Benth. ex Baker		Prawal Simi	2800-3900				
602	<i>Thermopsis inflata</i> Cambess.			4000-5000				
603	<i>Thermopsis lanceolata</i> R.Br.			3000-4300				
604	<i>Tibetia himalaica</i> (Baker) H.P.Tsui	Himalayan Tibetia		3300-4600				
605	<i>Toxicopueraria peduncularis</i> (Benth.) A.N.Egan & B.Pan			2000-3000				
606	<i>Trifolium pratense</i> L.	Purple clover		2000-3300	LC			
607	<i>Trifolium repens</i> L.	White Clover	Seto Behuli	1500-2500				
608	<i>Trigonella emodi</i> Benth.	Himalayan Fenugreek	Methee	1300-4900				
609	<i>Vicia bakeri</i> Ali	Wood Vetch	Kutulikosa	1000-3200				
610	<i>Vicia sativa subsp. nigra</i> (L.)Ehrh.	Common Vetch		200-4000				
Fagaceae								
611	<i>Castanopsis indica</i> (Roxb. ex Lindl.) A.DC.	Indian Chest nut	Dhale Katush	1200-2900				
612	<i>Castanopsis tribuloides</i> (Sm.) A.DC.	Chest nut	Masure Katush	450-2300				
613	<i>Lithocarpus elegans</i> (Blume) Hatus. ex Soepadmo		Arkhulo,	1400-2000				
614	<i>Quercus floribunda</i> Lindl. ex A. Camus	Holly Oak	Belekharmendo	1800-2700				
615	<i>Quercus glauca</i> Thunb.	Glaucous Oak	Phalant/Falaat	800-3000				
616	<i>Quercus lamellosa</i> Sm.		Phalant, Ngasi	1600-2800				
617	<i>Quercus lanata</i> Sm.		Sano Phalant	900-2600				
618	<i>Quercus oblongata</i> D.Don	Blackjack Oak	Banjh, Bhekar	1200-2400				
619	<i>Quercus semecarpifolia</i> Sm.	Kharsu Oak	Khasru, Bheno, Ghesi	1700-3800				
Gentianaceae								
620	<i>Comastoma stellariifolium</i> (Franch.) Holub		Kyice	3000-4300				
621	<i>Crawfurdia speciosa</i> Wall.			2500-2900				
622	<i>Gentiana algida</i> Pall.			4000-5600				

623	<i>Gentiana argentea</i> (Royle ex D.Don) Royle ex D.Don	Silvery Gentians		1600-4000			
624	<i>Gentiana capitata</i> Buch.-Ham. ex D.Don			1500-4500			
625	<i>Gentiana crassuloides</i> Bureau & Franch.			2500-3400			
626	<i>Gentiana depressa</i> D.Don			2900-4300			
627	<i>Gentiana Kurroo</i> Royle	Himalayan Gentian	Karoo	1800-2700	CR		
628	<i>Gentiana ornata</i> (G.Don) Wall. ex Griseb.	Decorated Gentian		3400-5500			
629	<i>Gentiana pedicellata</i> (D. Don) Griseb.			750-3800			
630	<i>Gentiana phyllocalyx</i> C.B.Clarke			3800-5500			
631	<i>Gentiana robusta</i> King ex Hook.f.			3500-5000			
632	<i>Gentiana stipitata</i> Edgew.			3000-4500			
633	<i>Gentiana straminea</i> Maxim.			3000-4500			
634	<i>Gentiana tetramera</i> Miyam.			3000			Endemic to Mustang
635	<i>Gentiana tibetica</i> King ex Hook.f.			3700-4500			
636	<i>Gentiana tubiflora</i> (G.Don) Griseb.			4000-5700			
637	<i>Gentiana urnula</i> Harry Sm.	Urn-shaped Gentian		4700-6200			
638	<i>Gentiana prostrata</i> var. <i>karelinii</i> (Griseb.) Kusn.			3600-5000			
639	<i>Gentianella azurea</i> (Bunge) Holub	Sky Blue Gentian		3960			
640	<i>Gentianella lowndesii</i> Harry Sm.			3500-4500			Endemic to Manang
641	<i>Gentianella moorcroftiana</i> (Wall. ex Griseb.) Airy Shaw			2700-5200			
642	<i>Gentianopsis paludosa</i> (Hook.f.) Ma		Tikta	3000-4500			
643	<i>Halenia elliptica</i> D. Don	Spurred Gentian	Tikta	1800-4500			
644	<i>Lomatogonium micranthum</i> Harry Sm.			2900			
645	<i>Swertia angustifolia</i> Buch.-Ham. ex D.Don		Chiraito	600-2700			
646	<i>Swertia chirayita</i> (Roxb.) H.Karst.	Chirayita	Chiraito	1500-2500			
647	<i>Swertia ciliata</i> (D.Don) B.L.Burt		Kalen	2800-4000			
648	<i>Swertia cuneata</i> D.Don			3900-5000			
649	<i>Swertia macrosperma</i> (C.B.Clarke) C.B.Clarke			2000-3200			
650	<i>Swertia nepalensis</i> J.Shah			3850			Endemic to Mustang
651	<i>Swertia nervosa</i> (G.Don) Wall. ex C.B.Clarke		Kaalo Chiraito	700-3000			
652	<i>Swertia paniculata</i> Wall.	Panicled Swertia		1500-4000			
Geraniaceae							
653	<i>Erodium cicutarium</i> (L.) L'Hér.	Redstem filaree		2800-3900			
654	<i>Erodium stephanianum</i> Willd.			3000-4000			
655	<i>Geranium donianum</i> Sweet	Don's Geranium		3300-4500			
656	<i>Geranium lambertii</i> Sweet	Lambert's Geranium		3200-4200			
657	<i>Geranium nakaoanum</i> H. Hara	Nakao's Geranium		3300-4500			
658	<i>Geranium nepalense</i> Sweet	Nepal Geranium	Chunitro Ghans	1500-4500			

659	<i>Geranium polyanthes</i> Edgew. & Hook.f.	Many-Flower Geranium		2400-4500				
660	<i>Geranium pratense</i> L.	Meadow Cranesbill		2800-3600				
661	<i>Geranium wallichianum</i> D.Don ex Sweet	Wallich Geranium	Raklamula	2100-4200				
Gesneriaceae								
662	<i>Aeschynanthus acuminatus</i> Wall. ex A.DC.			300				
663	<i>Aeschynanthus hookeri</i> C.B.Clarke	Hooker's Blushwort		1600-2700				
664	<i>Aeschynanthus parviflorus</i> (D.Don) Spreng.	Sikkim Blushwort		1200-2100				
665	<i>Corallodiscus lanuginosus</i> (Wall. ex R.Br.) B.L.Burt			1000-3400				
666	<i>Didymocarpus aromaticus</i> D.Don		Paakhaan	1600-3000				
667	<i>Didymocarpus oblongus</i> Wall. ex D.Don			800-3000				
668	<i>Didymocarpus primulifolius</i> D. Don	Primrose-leaved Stone Flower		1900-3200				
669	<i>Henckelia pumila</i> (D.Don) A.Dietr.	Dwarf Chirita		910-2300				
670	<i>Platystemma violoides</i> Wall.			1500-3400				
Grossulariaceae								
671	<i>Ribes alpestre</i> Wall. ex Decne.			2400-3600				
672	<i>Ribes glaciale</i> Wall.		Kembu	2600-4400				
673	<i>Ribes griffithii</i> Hook.f. & Thomson			2700-4000				
674	<i>Ribes himalense</i> Royle ex Decne.	Himalayan Currant		2400-3500				
675	<i>Ribes orientale</i> Desf.			2100-4000				
676	<i>Ribes takare</i> D. Don			2200-3300				
Hydrangeaceae								
677	<i>Hydrangea anomala</i> D.Don		Baaunee Kaath	1800-2700				
678	<i>Hydrangea aspera</i> Buch.-Ham. ex D.Don		Phirphire Ghans	1600-2700				
679	<i>Hydrangea febrifuga</i> (Lour.) Y.De Smet & Granados		Bansuli/Bhaasak	900-2400				
680	<i>Hydrangea heteromalla</i> D. Don	Himalayan Hydrangea		2400-3300				
681	<i>Philadelphus tomentosus</i> Wall. ex G.Don	Mock Orange		2000-3300				
Hypericaceae								
682	<i>Hypericum choisyianum</i> Wall. ex N.Robson	Choisy's St Johns Wort		2400-3600				
683	<i>Hypericum cordifolium</i> Choisy		Pyaaunle/Urauli	900-1900				Endemic to Nepal
684	<i>Hypericum elodeoides</i> Choisy	Himalayan St. Johns Wort	Jibre Ghans	1200-3300				
685	<i>Hypericum ericoides</i> L.			1200-3000				
686	<i>Hypericum japonicum</i> Thunb.			150-2600				
687	<i>Hypericum oblongifolium</i> Choisy	St Johns Wort		800-2100				
688	<i>Hypericum podocarpoides</i> N.Robson	Narrow-leaved St Johns Wort	Chali Mhendo	800-2100				
689	<i>Hypericum uralum</i> Buch.-Ham. ex D.Don	St. Johnswort	Undalu/ Urilo	1000-3600				
Juglandaceae								
690	<i>Engelhardia spicata</i> Lechen ex Blume		Mauwa, Pili	Upto 1700	LC			
691	<i>Juglans regia</i> L.	Himalayan Walnut	Okhar, Karto	1200-3000	NT			P

Lamiaceae							
692	<i>Ajuga integrifolia</i> Buch.-Ham. ex D.Don		Amilo Jhaar	2500-3400			
693	<i>Ajuga lupulina</i> Maxim.			2200-4500			
694	<i>Ajuga macrosperma</i> Wall. ex Benth.	Large-Seed Bugleweed	Ghoke ghans	1400-3300			
695	<i>Anisomeles indica</i> (L.) Kuntze	Indian Catmint	Raato Charapate	upto 2400			
696	<i>Callicarpa arborea</i> Roxb.	Beauty berry	Mas Gede	250-2000			
697	<i>Callicarpa macrophylla</i> Vahl	French Mulberry of Western Ghats	Guenlo	Upto1500			
698	<i>Clerodendrum chinense</i> (Osbeck) Mabb.	Stickbush	Masino Kanda	400-1600			
699	<i>Clinopodium nepalense</i> (Kitam. & Murata) B & Heubl			1900-3600			Endemic to Nepal
700	<i>Clinopodium umbrosum</i> (M.Bieb.) K.Koch			180-3400			
701	<i>Colebrookea oppositifolia</i> Sm.	Indian Squirrel Tail	Dhursule	Upto 1700			
702	<i>Colquhounia coccinea</i> Wall.	Himalayan Mint Shrub	Sanotusare	1200-3000			
703	<i>Dracocephalum heterophyllum</i> Benth.	White Dragonhead	Atunametok	3000-5500			
704	<i>Dracocephalum tanguticum</i> Maxim.			4500-5000			
705	<i>Elsholtzia blanda</i> (Benth.) Benth.	Lomba	Jangli tulsi	300-2000			
706	<i>Elsholtzia eriostachya</i> (Benth.) Benth.		Thupme	3000-4800			
707	<i>Elsholtzia flava</i> (Benth.) Benth.		Ban Silam	1500-2400			
708	<i>Elsholtzia fruticosa</i> (D. Don) Rehder	Shrubby Mint		1800-3300			
709	<i>Elsholtzia strobilifera</i> (Benth.) Benth.		Ban Baawaari	1900-4800			
710	<i>Eriophyton tuberosum</i> (Hedge) Ryding			3600-4800			
711	<i>Eriophyton wallichii</i> Benth.			4000-5400			
712	<i>Isodon coetsa</i> (Buch.-Ham. ex D.Don) Kudô		Jwaane Jhaar	600-3400			
713	<i>Isodon pharicus</i> (Prain) Murata			2500-4200			
714	<i>Isodon rugosus</i> (Wall. ex Benth.) Codd	Wrinkled Leaf Isodon		1000-3100			
715	<i>Lamium album</i> L.	White Dead Nettle		1500-3700			
716	<i>Lamium amplexicaule</i> L.	Henbit		1200-3700			
717	<i>Leucas cephalotes</i> (Roth) Spreng.	Guma, Drona Puspî		150-2400			
718	<i>Leucosceptrum canum</i> Sm.		Phusure	1000-2800			
719	<i>Mentha arvensis</i> L.	Corn mint	Babari	1200-2000			
720	<i>Mentha longifolia</i> (L.) L.	Horse Mint	Jangli Pudina	1500-3800			
721	<i>Micromeria biflora</i> (Buch.-Ham. ex D.Don) Benth.	Indian Wild Thyme	Pinaase Jhar	900-4000			
722	<i>Nepeta ciliaris</i> Benth.	White Leaved Catmint	Lute	1500-4000			
723	<i>Nepeta clarkei</i> Hook.f.			2700-3300			
724	<i>Nepeta coerulescens</i> Maxim.			3600-5300			
725	<i>Nepeta discolor</i> Royle ex Benth.			3300-5000			
726	<i>Nepeta laevigata</i> (D.Don) Hand.-Mazz.	Smooth catmint		2000-5000			
727	<i>Nepeta nivalis</i> Benth.		Dhayarin	4300-5500			
728	<i>Nepeta podostachys</i> Benth.	Long Stalked Catmint		2700-4300			

729	<i>Nepeta staintonii</i> Hedge			4100-5000				Endemic to ACA
730	<i>Origanum vulgare</i> L.	Oregano	Ramtulasi	2700-3300				
731	<i>Perilla frutescens</i> (L.) Britton		silam	600-2400				
732	<i>Phlomoides bracteosa</i> (Royle ex Benth.) K. & Makhm.	Purple Jerusalem Sage		2400-4100				
733	<i>Phlomoides rotata</i> (Benth. ex Hook.f.) Mathiesen			3800-6100				
734	<i>Pogostemon benghalensis</i> (Burm.f.) Kuntze	Bengal pogostemon	Rudhilo	Upto2000				
735	<i>Pogostemon glaber</i> Benth.		Rudhilo	Upto1900				
736	<i>Prunella vulgaris</i> L.	Self-heal		1200-3800				
737	<i>Pseudocaryopteris bicolor</i> (Roxb. ex Hardw.) P.D.Cantino			Upto2000				
738	<i>Rotheca serrata</i> (L.) Steane & Mabb.	Beetle Killer	Andekhi	up to 1750				
739	<i>Salvia campanulata</i> Wall. ex Benth.			2400-4000				
740	<i>Salvia castanea</i> Diels			1800-4100				
741	<i>Salvia hians</i> Royle ex Benth.	Himalayan Blue Sage	Gwalpani	2400-4000				
742	<i>Salvia nubicola</i> Wall. ex Sweet	Himalayan Yellow Sage		2100-4300				
743	<i>Salvia transhimalaica</i> Yonek.			3520				Endemic to Mustang
744	<i>Scutellaria discolor</i> Wall. ex Benth.	Bicolor Skullcap	Nilobutte ghans	700-2400				
745	<i>Scutellaria prostrata</i> Jacquem. ex Benth.	Prostrate Skullcap		2400-4500				
746	<i>Scutellaria scandens</i> D.Don	Climbing Skullcap	Charpate	1200-2400				
747	<i>Stachys melissifolia</i> Benth.	Silky Woundwort	Miginaa	210-4000				
748	<i>Stachys sericea</i> Cav.			2400-3900				
749	<i>Thymus linearis</i> Benth.	Himalayan Thyme	Akheno	1500-4300				
Lardizabalaceae								
750	<i>Stauntonia latifolia</i> (Wall.) R.Br. ex Wall.	Sausage Vine/Holboellia	Bagul, Beual,	1500-4000				
Lauraceae								
751	<i>Cinnamomum tamala</i> (Buch.-Ham.) T.Nees & C.H.Eberm.	Indian Bay Leaf	Tejpat, Lewe	Upto1500				
752	<i>Cinnamomum verum</i> J.Presl	Ceylon cinnamon	Dalchini, Kukhi	450-2100				
753	<i>Dodecadenia grandiflora</i> Nees		Daalachinee	2000-2900				
754	<i>Lindera neesiana</i> (Wall. ex Nees) Kurz		Pahenlo Khapate	1800-2700				
755	<i>Lindera pulcherrima</i> (Nees) Benth. ex Hook.f.	Wild Privet	Phusure	1200-2700				
756	<i>Lindera pulcherrima</i> var. <i>attenuata</i> C.K. Allen		Phusure	2000				
757	<i>Litsea cubeba</i> (Lour.) Pers.	Mountain Pepper	Sittimur, Katun	1000-2700				
758	<i>Litsea doshia</i> (D.Don) Kosterm.			1300-2700				
759	<i>Litsea monopetala</i> (Roxb.) Pers.	Meda	Kutmiro, Ratmati	Upto 2000				
760	<i>Machilus duthiei</i> King ex Hook.f.		Mahilo Kaulo	1000-2900				
761	<i>Machilus gamblei</i> King ex Hook.f.		Kathe Kaulo,	Upto1400				
762	<i>Machilus odoratissima</i> Nees	Fragrant Bay Tree	Bhate Kaulo	1500-2100				
763	<i>Neolitsea umbrosa</i> (Nees) Gamble		Pipi, Pepe	2400				
Lentibulariaceae								

764	<i>Pinguicula alpina</i> L.			3000-4400				
Linaceae								
765	<i>Reinwardtia indica</i> Dumort.	Golden girl	Pyauli, Kyobi	Upto2300				
Loranthaceae								
766	<i>Dendrophthoe falcata</i> (L.f.) Ettingsh.	Honey Suckle Mistletoe	Ainjeru	Upto1200				
767	<i>Helixanthera parasitica</i> Lour.		Ainjeru	Upto2000				
768	<i>Helixanthera odorata</i> (Wall.) Rajasek.		Ainjeru	1600-2400				
769	<i>Scurrula elata</i> (Edgew.) Danser	Tall Mistletoe	Ainjeru	1500-3000				
Lythraceae								
770	<i>Cuphea procumbens</i> Ortega	Cuphea	Sulphaa Phool	Upto1800				
771	<i>Woodfordia fruticosa</i> (L.) Kurz	Fire Flame Bush	Dhairo	200-1800	LC			
Magnoliaceae								
772	<i>Magnolia campbellii</i> Hook.f. & Thomson	Campbell's Magnolia	Lal Chanp	2250-3000	LC			
773	<i>Magnolia champaca</i> (L.) Baill. ex Pierre	Golden Champa	Chanp, Aule	Upto1300	LC		P	
774	<i>Magnolia doltsopa</i> (Buch.-Ham. ex DC.) Figlar	Temple Magnolia	Lek Chanp	2100-2500	DD			
775	<i>Magnolia insignis</i> Wall.	Pan sopa	Van Kamal		LC			
776	<i>Magnolia kisopa</i> (Buch.-Ham. ex DC.) Figlar	Kisopa Magnolia	Kopile,	1400-2800	DD			
Malvaceae								
777	<i>Azanza lampas</i> (Cav.) Alef.	Tree Hibiscus	Ban Kapas	200-1500				
778	<i>Bombax ceiba</i> L.	Red silk cotton tree	Tree simal	1400	LC		p	
779	<i>Grewia optiva</i> J.R.Drumm. ex Burret	Bihul	Syalbhusre	Upto 1800				
780	<i>Malva neglecta</i> Wallr.	Common mallow		1500-3700				
781	<i>Malva verticillata</i> L.	Chinese Mallow		2100-3300				
782	<i>Malvaviscus arboreus</i> Dill. ex Cav.	Turk's cap		Upto1500				
Mazaceae								
783	<i>Mazus surculosus</i> D.Don	Suckering Mazus	Khasre Butee	900-3300				
Melanthiaceae								
784	<i>Paris polyphylla</i> Sm.	Himalayan Paris	Satuwa	1800-3300				
785	<i>Trillium govanianum</i> Wall. ex D.Don			2700-4000				
Melastomataceae								
786	<i>Melastoma malabathricum</i> L.		Chulesi	1000-2100				
787	<i>Osbeckia nepalensis</i> Hook.	Nepal Osbeckia	Sindure/Seto	450-2300				
788	<i>Osbeckia stellata</i> Buch.-Ham. ex D.Don	Starry Osbeckia	Rato Chulesi	1200-2600				
789	<i>Oxyspora paniculata</i> DC.	Bristletips	Jhilimilipapa	1200-2100				
Meliaceae								
790	<i>Azadirachta indica</i> A.Juss.	Margosa tree	Neem	upto 900				
791	<i>Heynea trijuga</i> Roxb. ex Sims	Indian Heynea	Aankha Taruwa,	Upto1800				
792	<i>Melia azedarach</i> L.	Bead tree	Bakaino	700-2700				

793	<i>Toona hexandra</i> (Wall.) M.Roem.	Australian red cedar	Tuni Rukh	up to 1700				
794	<i>Toona sinensis</i> (Juss.) M.Roem.	Chinese Toon		1500-2300				
Menispermaceae								
795	<i>Cissampelos pareira</i> L.	False Pareira Root	Barel-panrhe	150-2200				
796	<i>Cocculus laurifolius</i> DC.	Laurel leaf snailseed		1000-1500				
797	<i>Stephania elegans</i> Hook.f. & Thomson	Elegant Tape Vine	Taro Laharaa	1000-1700				
798	<i>Stephania gracilentia</i> Miers	Slender tape vine		2100-2400				
799	<i>Tinospora sinensis</i> (Lour.) Merr.	Malabar Gulbel	Gurjo	Upto 1100				
Moraceae								
800	<i>Artocarpus lacucha</i> Buch.-Ham.	Monkey Jack	Badahar	Upto 1200				
801	<i>Ficus auriculata</i> Lour.	Elephant Ear Fig Tree	Nemaro, Timilo,	Upto1700				
802	<i>Ficus benghalensis</i> L.	Banyan Tre	Bar	Upto 1400				
803	<i>Ficus benjamina</i> L.	Benjamin's fig Tree	Sami, Swami	600- 2100				
804	<i>Ficus glaberrima</i> Blume		Pakhuri	600-1500				
805	<i>Ficus hederacea</i> Roxb.	Ivy Fig	Dudhe lahari	500-1400				
806	<i>Ficus hispida</i> L.f.	Opposite-leaved Fig-tree	Kharesto/kotha	450-1100				
807	<i>Ficus lacor</i> Buch.-Ham.		Kabhro	Upto 1500				
808	<i>Ficus neriifolia</i> Sm.	Willow leaf Ficus	Dudhilo, Ngra	1400-2200				
809	<i>Ficus religiosa</i> L.	Peepal/ Sacrd Fig Tree	Pipal	Upto1700				
810	<i>Ficus sarmentosa</i> Buch.-Ham. ex Sm.		Ban Timila	1400-2500				
811	<i>Ficus semicordata</i> Buch.-Ham. ex Sm.	Drooping fig	Khanayo	Upto2000				
812	<i>Ficus subincisa</i> Buch.-Ham. ex Sm.		Berulo, Aankha	Upto1800				
813	<i>Maclura cochinchinensis</i> (Lour.) Corner	Cockspur Thorn	Damaru	Upto1200				
814	<i>Morus alba</i> L.	Mulberry	Kimbu,	Upto3300				
815	<i>Morus serrata</i> Roxb.	Himalayan Mulberry	Kimbu	1200-2700				
Musaceae								
816	<i>Ensete superbum</i> (Roxb.) Cheesman	Cliff Banana	Bankera	Upto1500				
817	<i>Musa paradisiaca</i> L.	Banana	Bankera, Kera	Upto1500				
Myricaceae								
818	<i>Myrica esculenta</i> Buch.-Ham. ex D.Don	Box Myrtle	Kaphal, Kabal,	1000-2300				
Myrtaceae								
819	<i>Psidium guajava</i> L.	Common guava	Ambak, Amba	450-1500				
820	<i>Syzygium cumini</i> (L.) Skeels	Indian Blackberry	Jamuna	300-2000				
821	<i>Syzygium jambos</i> (L.) Alston	Rose Apple	Gulaf jamuna	600-1400				
Nyctaginaceae								
822	<i>Bougainvillea glabra</i> Choisy	Bougainvillea	Bagenvilia	Upto1700	LC			
823	<i>Oxybaphus himalaicus</i> Edgew.			2300-4000				
Oleaceae								

824	<i>Chrysojasminum fruticans</i> (L.) Banfi							
825	<i>Chrysojasminum humile</i> (L.) Banfi.		Jayi, Masino	1500-3400				
826	<i>Fraxinus floribunda</i> Wall.		Lankuri, Raul	1200-2700				
827	<i>Jasminum officinale</i> L.	Common Jasmine	Lahare jayi, Ban	1000-3000				
828	<i>Ligustrum sinense</i> Lour.		Kanike Phool	1200-2700				
829	<i>Nyctanthes arbor-tristis</i> L.	Nithgt Jasmine	Parijat Phool	up to 1500				
830	<i>Osmanthus suavis</i> King ex C.B. Clarke			2100-3800				
Onagraceae								
831	<i>Circaea alpina</i> L.			3000-4100				
832	<i>Epilobium brevifolium</i> D. Don			1500-4000				
833	<i>Epilobium brevisquamatum</i> P.H.Raven			3200-3500				Endemic to Mustang
834	<i>Epilobium cylindricum</i> D. Don			2800-4300				
835	<i>Epilobium latifolium</i> L.	River beauty/ Dwarf fireweed		3600-4200				
836	<i>Epilobium staintonii</i> P.H.Raven			3600-3650				Endemic to Mustang
837	<i>Epilobium wallichianum</i> Hausskn.			1700-3000				
Orobanchaceae								
838	<i>Aeginetia indica</i> L.	Forest Ghost Flower		600-1700				
839	<i>Euphrasia himalayica</i> Wettst.	Eyebright	Mendosan	2700-4200				
840	<i>Euphrasia platyphylla</i> Pennell			2500-4000				
841	<i>Orobanche aegyptiaca</i> Pers.	Broomrape		150-3100				
842	<i>Orobanche alba</i> Stephan ex Willd.			2300-3400				
843	<i>Orobanche cernua</i> Loeft.			1500-3300				
844	<i>Orobanche solmsii</i> C.B. Clarke			2400-3400				
845	<i>Pedicularis annapurnensis</i> T.Yamaz.			4200				Endemic to ACA
846	<i>Pedicularis bifida</i> (Buch.-Ham. ex D. Don) Pennell	Entire Leaf Lousewort		1000-3500				
847	<i>Pedicularis breviscaposa</i> T.Yamaz.			300-4000				Endemic to ACA
848	<i>Pedicularis chamissonoides</i> T.Yamaz.			3800				Endemic to ACA
849	<i>Pedicularis dendrothauma</i> R.R. Mill and D.J. Allard			3100-3200				
850	<i>Pedicularis gracilis</i> Wall. Ex Benth.	Slender Lousewort		2200-3800				
851	<i>Pedicularis hoffmeisteri</i> Klotzsch			2500-4500				
852	<i>Pedicularis longiflora</i> var. <i>tubiformis</i> (Klotzsch) Tsoong	Long tube Lousewort	Sercenlugdu	2700-4200				
853	<i>Pedicularis megalantha</i> D.Don			3000-4300				
854	<i>Pedicularis mollis</i> Wall. ex Benth.			2900-4800				
855	<i>Pedicularis nodosa</i> Pennell			2500-3300				
856	<i>Pedicularis pyramidata</i> Royle ex Benth.			2100-5000				
857	<i>Pedicularis rhinanthoides</i> Schrenk	Rattle Lousewort		3300-4900				
858	<i>Pedicularis roylei</i> Maxim.	Royal's Lousewort		3400-4800				

859	<i>Pedicularis scullyana</i> Prain ex Maxim.			3300-5000				
860	<i>Pedicularis sectifolia</i> T. Yamaz.			3000-5600				
861	<i>Pedicularis siphonantha</i> D. Don	Tibe Lousewort		3000-4400				
862	<i>Pedicularis wallichii</i> Bunge			4000-4700				
863	<i>Sopubia trifida</i> Buch.-Ham. ex D. Don	Split leaf Sopubia	Tikta	1200-2800				
Oxalidaceae								
864	<i>Oxalis acetosella</i> L.	Wood-Scrrel		2100-3100				
865	<i>Oxalis corniculata</i> L.	Creeping Wood-Scrrel	Chariamilo	Upto2900				
Pandanaceae								
866	<i>Pandanus furcatus</i> Roxb.		Keura, Tarika	Upto1200				
Papaveraceae								
867	<i>Argemone mexicana</i> L.	Yellow Mexican Poppy		150-1400				
868	<i>Corydalis calycina</i> Liden			3100-4600				Endemic to Nepal
869	<i>Corydalis crassifolia</i> Royle			3600-4500				
870	<i>Corydalis govaniana</i> Wall.	Govan's Corydalis		2400-4800				
871	<i>Corydalis juncea</i> Wall.			2500-4300				
872	<i>Corydalis latiflora</i> Hook.f. & Thomson			4200-5500				
873	<i>Corydalis megacalyx</i> Ludlow & Stearn			3600-4500				Endemic to ACA
874	<i>Corydalis meifolia</i> Wall.	Thread leaf Corydalis		3900-5700				
875	<i>Corydalis rutifolia</i> (Sm.) DC.	Two-Leaved Corydalis		1900-4500				
876	<i>Corydalis thyrsoiflora</i> Prain	Thyrse Corydalis		3000-4300				
877	<i>Dactylicapnos macrocapnos</i> (Prain) Hutch.	Yellow Bleeding Heart		1300-3000				
878	<i>Dactylicapnos scandens</i> (D.Don) Hutch.		Bikchane	2200-3000				
879	<i>Dicranostigma lactucoides</i> Hook.f. & Thomson		Kyerap	2400-4000				
880	<i>Fumaria indica</i> (Hausskn.) Pugsley	Indian Fumitory	Dhukure	Upto2000				
881	<i>Hypecoum leptocarpum</i> Hook. f. & Thomson	Himalayan Little Poppy		4000				
882	<i>Meconopsis discigera</i> Prain	Himalayan Poppy		3300-4900				
883	<i>Meconopsis grandis</i> Prain	Asiatic Poppy	Kyasar	3000-5200				
884	<i>Meconopsis horridula</i> Hook. f. & Thomson			3500-5500				
885	<i>Meconopsis lamjungensis</i> T. Yoshida, H. Sun & Grey-Wilson			3500-4050				
886	<i>Meconopsis paniculata</i> (D. Don) Prain			2700-5200				
887	<i>Meconopsis rebecca</i> H. S. Debnath & Nayar			2600				
888	<i>Meconopsis regia</i> G. Taylor			2700-4600		III		Endemic to ACA
889	<i>Meconopsis simplicifolia</i> (D. Don) Walp.	Common Blue Poppy		3300-5300				
890	<i>Meconopsis sinuata</i> Prain	Blue Poppy		2400-4300				
891	<i>Meconopsis staintonii</i> Grey-Wilson			3200-3700				Endemic to ACA
892	<i>Meconopsis taylorii</i> L.H.J. Williams			3600-4570				Endemic to ACA
893	<i>Papaver macrostomum</i> Boiss. & A.Huet	Large-Mouth Poppy		1500-1800				
Pentaphragaceae								

894	<i>Eurya acuminata</i> DC.	Tapering Leaf Eurya	Jhingana, Jungsi	1200-2500				
895	<i>Eurya cerasifolia</i> (D.Don) Kobuski		Chilaune, Kyun	900-2300				
Phrymaceae								
896	<i>Lancea tibetica</i> Hook. f. & Thomson			3000-5400				
Phyllanthaceae								
897	<i>Bridelia retusa</i> (L.) A.Juss.	Spinous Kino Tree	Gayo	150-1500				
898	<i>Phyllanthus amarus</i> Schumach. & Thonn.			400-1500				
899	<i>Phyllanthus emblica</i> L.	Indian gooseberry	Amala	Upto 1400				
900	<i>Phyllanthus parvifolius</i> Buch.-Ham. ex D.Don		Khareto	1100-2000				
Phytolacaceae								
901	<i>Phytolacca acinosa</i> Roxb.	Indian Pokeweed	Jaringo Sag,	1500-3200				
Piperaceae								
902	<i>Peperomia tetraphylla</i> (G.Forst.) Hook. & Arn.		Hadohuro	1000-2500				
903	<i>Piper boehmeriifolium</i> (Miq.) Wall. ex C. DC.	False-nettle Iweave Pepper		300-1500				
904	<i>Piper mullesua</i> Buch.-Ham. ex D. Don	Wild Piper		400-2500				
Plantaginaceae								
905	<i>Hemiphragma heterophyllum</i> Wall.		Nash Jhar	1800-3600				
906	<i>Lagotis kunawurensis</i> Rupr.		Kinnaur Lagotis	3900-5600				
907	<i>Neopicrorhiza scrophulariiflora</i> (Pennell) D.Y.Hong	Figwort Picrorhiza	Kutki	3500-4800				P
908	<i>Plantago asiatica</i> subsp. <i>erosa</i> (Wall.) Z. Yu Li			900-4100				
909	<i>Plantago major</i> L.	Broad-leaf Plantain	Isabgol	1000-4000				
910	<i>Scoparia dulcis</i> L.	Sweet Broom weed	Chini Jhar	100-1200				
911	<i>Veronica beccabunga</i> L.	Brooklime		2300-3100				
912	<i>Veronica lanuginosa</i> Benth. ex Hook. f.			4500-5600				
Polygalaceae								
913	<i>Polygala arillata</i> Buch.-Ham. ex D.Don	Yellow Milkwort	Luiche Phool	1500-2700				
914	<i>Polygala tatarinowii</i> Regel	Oriental Milkwort		1800-0900				
Polygonaceae								
915	<i>Bistorta affinis</i> (D. Don) Greene	Himalayan Knotweed		3000-4800				
916	<i>Bistorta amplexicaulis</i> (D.Don) Greene	Mountain Fleceflower	Ratnaulo	2100-4500				
917	<i>Bistorta macrophylla</i> (D. Don) Sojak			1700-4500				
918	<i>Fagopyrum acutatum</i> (Lehm.) Mansf. Ex. K. Hammer	Golden Buckwheat	Ban Phapar	1500-3400				
919	<i>Fagopyrum esculentum</i> Moench	Buckwheat	Phapar, Tonda	1500-4400				
920	<i>Fagopyrum megacarpum</i> H.Hara			2400-3000				Endemic to ACA
921	<i>Fallopia filipes</i> (Hara) Holub			1900-2900				Endemic to ACA
922	<i>Koenigia mollis</i> (D.Don) T.M.Schust. & Reveal	Shikkim knotweed	Thotne	1200-4000				
923	<i>Koenigia polystachya</i> (Wall. ex Meisn.) T.M.Schust. & Reveal			3000-3500				
924	<i>Koenigia rumicifolia</i> (Royle ex Bab.) T.M.Schust. & Reveal	Dock-Leaf Knotweed	Chaunle	2700-4400				

925	<i>Koenigia tortuosa</i> (D. Don) T.M. Schust. & Reveal			3300-5600				
926	<i>Oxyria digyna</i> (L.) Hill	Mountain Sorrel		2400-5000				
927	<i>Persicaria capitata</i> (Buch.-Ham. ex D. Don) H. Gross	Pin-head Knotweed	Rannaule jhar	600-2400				
928	<i>Persicaria hydropiper</i> (L.) Delarbre	Pepper wort	Pire	900-2300		LC		
929	<i>Persicaria nepalensis</i> (Meisn.) Miyabe	Nepal Persicaria		2600-3700				
930	<i>Persicaria vivipara</i> (L.) Ronse Decr.	Alpine Bistort		3300-5000				
931	<i>Polygonum emodi</i> Meisn.			2800-4800				
932	<i>Polygonum milletii</i> (H. Lévl.) H. Lévl.	Crimson Knotweed		3000-4500				
933	<i>Polygonum plebeium</i> R. Br.	Small Knotweed	Balune Saag	Upto 1800				
934	<i>Polygonum rottboellioides</i> Jaub. & Spach			2000-3300				
935	<i>Rheum acuminatum</i> Hook. fil. & Thoms.	Ornamental Rhubarb		3300-4200				
936	<i>Rheum australe</i> D. Don	Indian Rhubarb	Padamchal	3000-4200				
937	<i>Rheum moorcroftianum</i> Royle			3600-5400				
938	<i>Rumex hastatus</i> D. Don	Yellowleaf Dock	Kapu, Charemala	1000-2700				
939	<i>Rumex nepalensis</i> Spreng.	Nepal Dock	Halhale	1200-4300				
940	<i>Rumex patientia</i> L.			2100-4100				
Pontederiaceae								
941	<i>Monochoria vaginalis</i> (Burm.f.) C. Presl	Oval-leafed Pondweed	Paan Pate	Upto 1800				
Portulacaceae								
942	<i>Portulaca oleracea</i> L.	Common Purslane	Noondhiki	300-1500				
Primulaceae								
943	<i>Androsace globifera</i> Duby			2500-3300				
944	<i>Androsace jacquemontii</i> var. <i>robusta</i> (R. Knuth) Govaerts			2400-5200				
945	<i>Androsace lehmannii</i> Wall. ex Duby			3500-5500				
946	<i>Androsace muscoidea</i> Duby			3600-5200				
947	<i>Androsace rotundifolia</i> Hardw.	Roundleaf Rock Jasmine		900-3700				
948	<i>Androsace sarmentosa</i> Wall.	Common Rock Jasmine		2800-3900				
949	<i>Androsace strigillosa</i> Franch.			2400-4700				
950	<i>Androsace tapete</i> Maxim.			3800-5200				
951	<i>Ardisia macrocarpa</i> Wall.	Himalayan Coralberry	damai Phool,	1500-2400				
952	<i>Cortusa brotheri</i> Pax ex Lipsky	Himalayan Bell Primose		3000-4000				
953	<i>Maesa chisia</i> D. Don		Bilaune, Ghonde	1200-2600				
954	<i>Maesa macrophylla</i> (Wall.) A. DC.		Banbhogate,	300-1800				
955	<i>Maesa montana</i> A. DC.			250-1500				
956	<i>Myrsine africana</i> L.	Cape Myrtle	Banbhogate	1200-2300				
957	<i>Myrsine capitellata</i> Wall.		Setikath	900-1800				
958	<i>Myrsine semiserrata</i> Wall.	Blueberry Myrtle	Kalikath	1000-2700				
959	<i>Primula atrodentata</i> W. W. Sm.			3500-4900				

960	<i>Primula buryana</i> Balf. f.			3600-4400			
961	<i>Primula calderiana</i> Balf. f. & R.E. Cooper	Golden-eyed Primose		3600-4900			
962	<i>Primula capitata</i> Hook.	Capitata Primose		3800			
963	<i>Primula denticulata</i> Sm.	Drumstick Primose		1500-4900			
964	<i>Primula edgeworthii</i> (Hook.f.) Pax	Edgeworth's Primose		2100-4100			
965	<i>Primula geraniifolia</i> Hook.f.	Geranium Primose		2700-4600			
966	<i>Primula glomerata</i> Pax	Globe Primose		3000-5000			
967	<i>Primula gracilipes</i> Craib			3200-4100			
968	<i>Primula involucrata</i> Wall. ex Duby.	Tall Pale Primose		2700-4800			
969	<i>Primula irregularis</i> Craib			2700-3500			
970	<i>Primula macrophylla</i> D. Don	Large Leaf Primose		3300-5600			
971	<i>Primula minutissima</i> Jacquem. ex Duby	Heyde's Primose		3700-5200			
972	<i>Primula obliqua</i> W. W. Sm.	Himalayan White Primose		3600-4400			
973	<i>Primula petiolaris</i> Wall.			2300-3900			
974	<i>Primula poluninii</i> Fletcher						Endemic to ACA
975	<i>Primula primulina</i> (Spreng.) H. Hara			3400-5000			
976	<i>Primula ramzanae</i> W.W.Sm. & H.R.Fletcher			3200-4800			Endemic to ACA
977	<i>Primula reidii</i> Duthie	Reid's Primose		3700-4600			
978	<i>Primula rotundifolia</i> Wall.			3600-4900			
979	<i>Primula sharmae</i> Fletcher			2500-5300			Endemic to Mustang
980	<i>Primula sikkimensis</i> Hook.	Sikkim Cowslip	Medosero	3300-4400			
981	<i>Primula strumosa</i> Balf. f. & R.E. Cooper			3100-4800			
982	<i>Primula tibetica</i> Watt			3000-4800			
983	<i>Primula walshii</i> Craib			4200-4600			
984	<i>Primula wigramiana</i> W. W. Sm.			3600-5200			Endemic to Nepal
Ranunculaceae							
985	<i>Aconitum chasmanthum</i> Stapf ex Holmes	Gaping Monkshood		3600-4800	CE		
986	<i>Aconitum dissectum</i> D. Don			3300-4800			
987	<i>Aconitum ferox</i> Wall. ex Ser.	Himalayan Monkshood	Brisma	2100-3800			
988	<i>Aconitum heterophyllum</i> Wall. ex Royle	Atish Root	Atish	2400-4400	EN		
989	<i>Aconitum laeve</i> Royle	Grape-Leaved Monkshood		2000-3300			
990	<i>Aconitum lethale</i> Griff.	Balfour's Monkshood	Gobaree	1800-4300			
991	<i>Aconitum naviculare</i> (Brühl) Stapf			4800-5000			
992	<i>Aconitum orochryseum</i> Stapf			3600-4900			
993	<i>Aconitum violaceum</i> Jacquem. ex Stapf			3600-4800	VU		
994	<i>Anemone demissa</i> Hook.f. & Thomson			2700-5600			
995	<i>Anemone obtusiloba</i> D. Don			2100-4300			

996	<i>Anemone polyanthes</i> D. Don	Many Flowered Anemone		2400-4400			
997	<i>Anemone rivularis</i> Buch.-Ham. ex DC	Himalayan Windflower	Samdu/Haaiti	1600-4000			
998	<i>Anemone rupicola</i> Cambess.	Wood Anemone		2700-4700			
999	<i>Anemone tetrasepala</i> Royle	Four Petal Anemone		2100-3600			
1000	<i>Anemone vitifolia</i> Buch.-Ham. ex DC.	Grape Leaf Anemone	Madino/Mauree	1300-3300			
1001	<i>Aquilegia fragrans</i> Benth.	Fragrant Columbine		2400-3600			
1002	<i>Aquilegia nivalis</i> (Baker) Falc. ex B.D.Jacks.	Snow Columbine		3000-4000			
1003	<i>Aquilegia pubiflora</i> Wall. ex Royle	Himalayan Columbine		2400-3300			
1004	<i>Caltha palustris</i> L.	Marsh Marygold		2400-3300			
1005	<i>Clematis acuminata</i> DC.			900-2400			
1006	<i>Clematis alternata</i> Kitam. & Tamura			2200-3000			
1007	<i>Clematis barbellata</i> Edgew.	Brown Clematis		2100-4000			
1008	<i>Clematis bracteolata</i> Tamura			3700			Endemic to ACA
1009	<i>Clematis buchananiana</i> DC.	White Clematis	Bhedo Lahara	1800-3300			
1010	<i>Clematis connata</i> DC.	Himalayan Clematis		2400-3300			
1011	<i>Clematis grata</i> Wall.	Charming Clematis		600-2700			
1012	<i>Clematis graveolens</i> Lindl.			2000-3500			
1013	<i>Clematis grewiiflora</i> DC.	Black Climber		1200-2100			
1014	<i>Clematis montana</i> Buch.-Ham. ex DC.	Anemone Clematis	Junge Lahara	1500-4000			
1015	<i>Clematis paniculata</i> J. F. Gmel.			1400-1600			
1016	<i>Clematis phlebantha</i> L.H.J. Williams			2600-3700			Endemic to ACA
1017	<i>Clematis roylei</i> Rehder	Royl's Clematis		450-2200			
1018	<i>Clematis tibetana</i> Kuntze			1700-4000			
1019	<i>Clematis tibetana</i> var. <i>vernayi</i> (C.E. Fisch.) Grey-Wilson			1800-4000			
1020	<i>Delphinium brunonianum</i> Royle	Musk Larkspur	Bidhadi Ghans	3500-6000			
1021	<i>Delphinium cashmerianum</i> Royle	Kashmir Larkspur		3600-4500			
1022	<i>Delphinium denudatum</i> Wall. ex Hook.f. & Thomson		Nirmarshi, Nilo	1500-2700			
1023	<i>Delphinium glaciale</i> Hook.f. & Thomson			3300-6500			
1024	<i>Delphinium grandiflorum</i> L.		Mudulo, Aktejh	3700			
1025	<i>Delphinium himalayae</i> Munz		Mindu	2400-4500			Endemic to ACA
1026	<i>Delphinium kamaonense</i> Huth			3000-4500			
1027	<i>Delphinium stapeliosmum</i> Brühl			1200-3000			
1028	<i>Delphinium viscosum</i> Hook.f. & Thomson			3000-5200			
1029	<i>Delphinium williamsii</i> Munz			2500-3300			Endemic to ACA
1030	<i>Delphinium vestitum</i> Wall. ex Royle			2700-4700			
1031	<i>Halerpestes tricuspis</i> (Maxim.) Hand. - Mazz.	Three-Finger Buttercup		3300-4400			
1032	<i>Oxygraphis polypetala</i> (Raf.) Hook.f. & Thomson	Himalayan Oxygraphis		2200-5500			
1033	<i>Paraquilegia microphylla</i> (Royle) J. R. Drumm. & Hutch.			3400-4900			

1034	<i>Ranunculus arvensis</i> L.			600-2400			
1035	<i>Ranunculus brotherusii</i> Freyn.	Cutleaf Buttercup		3000-5000			
1036	<i>Ranunculus diffusus</i> DC.	Spreading Buttercup	Nak kore Jhar	1500-4000			
1037	<i>Ranunculus hirtellus</i> Royle	Softly Hairy Buttercup		2800-5500			
1038	<i>Ranunculus laetus</i> Wall. ex Hook. f. & J. W. Thomson			1500-2700			
1039	<i>Ranunculus laetus</i> Wall. ex Hook. f. & J. W. Thomson			1500-2700			
1040	<i>Ranunculus membranaceus</i> Royle var. <i>Stracheyanys</i> (Maxim.) Yonek.						
1041	<i>Ranunculus pulchellus</i> C.A.Mey.	Pretty Buttercup		3000-5200			
1042	<i>Ranunculus sceleratus</i> L.	Blistter Buttercup	Nak Kore	Upto1800			
1043	<i>Ranunculus trichophyllus</i> Chaix ex Vill.	Water Funnel		2700-4800			
1044	<i>Thalictrum alpinum</i> L.			3000-5200			
1045	<i>Thalictrum chelidonii</i> DC.		Dampate,	2300-3500			
1046	<i>Thalictrum cultratum</i> Wall.	Knife-like Meadow Rue		3000-4800			
1047	<i>Thalictrum dalzellii</i> Hook.	Hill Meadow Rue		1700-2000			
1048	<i>Thalictrum elegans</i> Wall. ex Royle			3800-4800			
1049	<i>Thalictrum foetidum</i> L.	Lesser Meadow Rue		1500-4700			
1050	<i>Thalictrum foliolosum</i> DC.	Leafy Meadow Rue	Dampate	1300-3400			
1051	<i>Thalictrum javanicum</i> Bl.			2100-3000			
1052	<i>Thalictrum punduanum</i> Wall.			1200-2500			
1053	<i>Thalictrum rariflorum</i> Fr.			2800-3500			
1054	<i>Thalictrum reniforme</i> Wall.	Purple Meadow Rue		2800-3300			
1055	<i>Thalictrum rostellatum</i> Hook. fil. & Thoms.			2300-3200			
1056	<i>Thalictrum saniculiforme</i> DC.			2000-2800			
1057	<i>Thalictrum virgatum</i> Hook. f. & Thomson	Virgate Meadow Rue		2400-4500			
Rhamnaceae							
1058	<i>Berchemia edgeworthii</i> Lawson			2400-4400			
1059	<i>Rhamnus purpurea</i> Edgew.	Purple Buckthorn		1500-3000			
1060	<i>Zizyphus incurva</i> Roxb.		Hadebayar	900-1600			
1061	<i>Zizyphus mauritiana</i> Lam.	Chinese Date	Bayar	200-1200			
Rosaceae							
1062	<i>Agrimonia pilosa</i> Ledeb.	Hairy Agrimony	Bherakuro	1000-3000			
1063	<i>Aruncus dioicus</i> (Walter) Fernald	Goat's beard		3000-4000			
1064	<i>Coleogyne ramosissima</i> Torr.			1800-3300			
1065	<i>Cotoneaster affinis</i> Lindl.		Kause Phool	2000-2800			
1066	<i>Cotoneaster bacillaris</i> Wall. ex Lindl.		Limichiya	1800-3000			
1067	<i>Cotoneaster frigidus</i> Wall. ex Lindl.			2200-3400			
1068	<i>Cotoneaster integrifolius</i> (Roxb.) G.Klotz	Entire-leaved Cotoneaster		1800-3500			
1069	<i>Cotoneaster microphyllus</i> Wall. ex Lindl.	Rockspray Cotoneaster		2000-5400			

1070	<i>Cotoneaster rotundifolius</i> Wall. ex Lindley			3700			
1071	<i>Dasiphora fruticosa</i> (L.) Rydb.	Shrubby Cinquefoil		2700-4300			
1072	<i>Duchesnea indica</i> (Jacks.) Focke		Rato Ainselu	1000-2500			
1073	<i>Eriobotrya dubia</i> (Lindl.) Decne.		Jurekaphal	1500-2000			
1074	<i>Eriobotrya elliptica</i> Lindl.	Nepal Loquat	Maya	300-2100			
1075	<i>Filipendula vestita</i> (Wall. ex G. Don) Maxim.	Himalayan Medowsweet		2100-3300			
1076	<i>Fragaria daltoniana</i> J. Gay		Bhuin Ainselu	2000-3600			
1077	<i>Fragaria nubicola</i> (Lindl. ex Hook.f.) Lacaita	Himalayan Strawberry	Bhuin Ainselu	1600-4000			
1078	<i>Malus baccata</i> (L.) Borkh.	Siberia Crab Apple		1800-3600			
1079	<i>Malus domestica</i> Borkh.	Apple	Syau	2200-3500			
1080	<i>Neillia rubiflora</i> D. Don	East Himalayan Neillia	Hatti Laharo	2100-3200			
1081	<i>Neillia thyrsoflora</i> D. Don		Hatti Laharo	1600-2000			
1082	<i>Potentilla anserina</i> L.		Kroma	2400-4800			
1083	<i>Potentilla argrophylla</i> Wall. ex Lehm.	Silver-leaved Cinquefoil		2400-4600			
1084	<i>Potentilla atrosanguinea</i> G.Lodd. ex D. Don	Ruby Cinquefoil		3300-4600			
1085	<i>Potentilla biflora</i> Willd. ex Schldtl.			4000-5400			
1086	<i>Potentilla coriandrifolia</i> G. Don			3600-5600			
1087	<i>Potentilla curviseta</i> Hook.f.			3000-4500			
1088	<i>Potentilla eriocarpa</i> Wall. ex Lehm.	Wolly-Fruit Cinquefoil		3000-5000			
1089	<i>Potentilla fruticosa</i> var. ochreate L.			2400-5500			
1090	<i>Potentilla fruticosa</i> var. <i>pumila</i> L.			2400-6000			
1091	<i>Potentilla fruticosa</i> var. <i>rigida</i> L.			2400-6000			
1092	<i>Potentilla fulgens</i> Wall. ex Hook.	Lined Cinquefoil	Bajradanti	1600-4800			
1093	<i>Potentilla griffithii</i> Hook. f.			2400-2800			
1094	<i>Potentilla lineata</i> Trevir.			3000-3500			
1095	<i>Potentilla microphylla</i> D. Don	Tiny Leaved Cinquefoil		3800-5100			
1096	<i>Potentilla multifida</i> L.	Feather Leaved Cinquefoil		3000-4800			
1097	<i>Potentilla peduncularis</i> D. Don	East Himalayan Cinquefoil		3000-4500			
1098	<i>Potentilla reptans</i> L.	Creeping Cinquefoil		3600-4800			
1099	<i>Potentilla sericea</i> L.			2500-3200			
1100	<i>Potentilla sundaica</i> (Bl.) Kuntze			1000-2200			
1101	<i>Prinsepia utilis</i> Royle	Himalayan Cherry Prinsepia	Dhatelo, Bhekali	1200-2900			
1102	<i>Prunus amygdalus</i> Batsch	Almond Tree	basam, Kagaji	2500-3000			
1103	<i>Prunus armeniaca</i> L.	Apricot	Khurpani	2900-3500			
1104	<i>Prunus bracteopadus</i> Koehne.		Malokhanbai	1200-2600			
1105	<i>Prunus cerasoides</i> Buch. -Ham. ex D. Don	Indian Cherry	Painun, Chyakha	1200-2400			
1106	<i>Prunus cornuta</i> (Wall. ex Royle) Steud.	Himalayan Bird Cherry		2100-3500			

1107	<i>Prunus davidiana</i> (Carriere) Franch		Painyu	2100-2700			
1108	<i>Prunus himalaica</i> Kitam.			3900			Endemic to ACA
1109	<i>Prunus persica</i> (L.) Batsch	Peach	Aaru	1300-3200			
1110	<i>Pyracantha crenulata</i> (Roxb. ex D.Don) M.Roem.		Ghangus	1000-3000			
1111	<i>Pyrus communis</i> L.	Pear	Naspati	1200-2000			
1112	<i>Pyrus pashia</i> Buch. -Ham. ex D.Don	Wild Pear	Mayal, Mel	750-2700			
1113	<i>Rosa laevigata</i> Michx.	Cherokee Rose		100-1300			
1114	<i>Rosa macrophylla</i> Lindl.	Himalayan Musk rose	Bhainse Kanda	2100-3800			
1115	<i>Rosa moschata</i> Herrm.	Musj Rose		1200-2400			
1116	<i>Rosa sericea</i> Wall. ex Lindl.	Silky Rose	Bhote Gulab	2100-4600			
1117	<i>Rubus acuminatus</i> Smith			1000-2300			
1118	<i>Rubus biflorus</i> Buch. -Ham. ex Sm.		Sano Gulab	2100-3300			
1119	<i>Rubus calycinus</i> Wall. ex D.Don		Bhuin Ainselu	2100-3000			
1120	<i>Rubus ellipticus</i> Sm.	Yello Himalayan Raspberry	Ainselu, Palo	600-2300			
1121	<i>Rubus fockeanus</i> Kurz		Ainselu	2400-3000			
1122	<i>Rubus hoffmeisterianus</i> Kunth & Bouche	Hoffmeister Raspberry		1500-2400			
1123	<i>Rubus nepalensis</i> (Hook. f.) Kuntze	Nepalese Raspberry	Bhuin Ainselu	2100-3200			
1124	<i>Rubus paniculatus</i> forma <i>paniculatus</i> Sm.	Heart-leaf Raspberry	Rukh Ainselu	1500-2900			
1125	<i>Rubus paniculatus</i> forma <i>tiliaceus</i> (Sm.) H. Hara		Rukh Ainselu	1600-2600			
1126	<i>Rubus pungens</i> Cambess.		Rukh Ainselu	2600-3500			
1127	<i>Rubus rosifolius</i> Sm.	Roseleaf Bramble	Rato Ainselu	2000-2200			
1128	<i>Rubus splendidissimus</i> H. Hara			2400-3000			
1129	<i>Rubus niveus</i> Thunb.	Mysore Raspberry	Kalo Ainselu	2100-3600			
1130	<i>Rubus pedunculatus</i> D.Don	Three-Leaf Raspberry		2200-3300			
1131	<i>Sibbaldia adpressa</i> Bunge			2800-3800			
1132	<i>Sibbaldia cuneata</i> Edgew.	Wedge Leaf Sibbaldia		2600-3500			
1133	<i>Sibbaldia parviflora</i> Willd.			2600-3500			
1134	<i>Sibbaldia purpurea</i> Royle	Purple Glow Wort		3500-5600			
1135	<i>Sorbaria tomentosa</i> (Lindl.) Rehder	Himalayan Sorbaria	Kanike, Baakhre	1800-2900			
1136	<i>Sorbus cuspidata</i> (Spach) Hedl.			2700-3700			
1137	<i>Sorbus foliolosa</i> (Wall.) Spach			2500-3400			
1138	<i>Sorbus lanata</i> (D. Don) Schauer	Hairy Rowan		2500-3400			
1139	<i>Sorbus microphylla</i> (Wall. ex Hook.f.) Wenz.	Small Leaf Rowan		3000-4500			
1140	<i>Sorbus rhamnoides</i> (Decne.) Rehder			2700-3500			
1141	<i>Spiraea arcuata</i> Hook. f.			3300-4900			
1142	<i>Spiraea bella</i> Sims.	Pretty Spirea		1900-2400			
1143	<i>Stranvaesia nussia</i> (D. Don) Decne.		Jure Mayal,	900-2500			

Rubiaceae

1144	<i>Galium acutum</i> Edgew.	Tiny Bedstraw	Chyanguya	3100-3500				
1145	<i>Galium aparine</i> L.			2500-3000				
1146	<i>Galium asperifolium</i> Wall.	Rough-leaved Clivers		1500-3000				
1147	<i>Galium asperuloides</i> Edgew.			1900-3400				
1148	<i>Galium elegans</i> Wall. Ex Roxb.			1400-3000				
1149	<i>Galium hirtiflorum</i> Req. ex DC.			1200-2200				
1150	<i>Himalrandia tetrasperma</i> (Wall. ex Roxb.) T.Yamaz.	Himalayan Randia	Ghanaulo	1200-2600				
1151	<i>Leptodermis kumaonensis</i> Parker	Kumaon Leptodermis		2000-3800				
1152	<i>Leptodermis stapfiana</i> H.J.P. Winkl.			1400-3500				
1153	<i>Luculia gratissima</i> (Wall.) Sweet	Pleasant Luculia	Ban Kangiyo,	1000-2100				
1154	<i>Mussaenda roxburghii</i> Hook.f.	Himalayan Mussaenda	Dhobini	Upto 1600				
1155	<i>Mussaenda treutleri</i> Stapf		Dhobini	400-1700				
1156	<i>Neohymenopogon parasiticus</i> (Wall.) Bennet			1400-2200				
1157	<i>Rubia manjith</i> Roxb. ex Fleming	Manjith	Majito	1200-3000				
1158	<i>Spermadictyon suaveolens</i> Roxb.	sweet-scented	Ban Champa	700-2300				
1159	<i>Wendlandia heynei</i> (Schult.) Santapau & Merchant	Tilki	Rato Kaginyo,	upto 1400				
Rutaceae								
1160	<i>Aegle marmelos</i> (L.) Corrêa	Stone Apple	Bel	Upto 1200				
1161	<i>Boenninghausenia albiflora</i> (Hook.) Rchb. ex Meisn.	White Himalayan Rue	Dampate	600-3300				
1162	<i>Citrus limon</i> (L.) Osbeck	Lemon	Nibuwa	Upto1600				
1163	<i>Citrus medica</i> L.	Citron	Bimiro	Upto1200				
1164	<i>Skimmia laureola</i> Franch.			2400-3600				
1165	<i>Zanthoxylum armatum</i> DC.	Nepal pepper	Timmur, Pum	1100-2500				
1166	<i>Zanthoxylum nepalense</i> Babu		Timmur, Pum	2200-3100				
1167	<i>Zanthoxylum oxyphyllum</i> Edgew.	Prickly Ash	Lahara Timmur	1800-2800				
Sabiaceae								
1168	<i>Meliosma dilleniifolia</i> (Wall. ex Wight & Arn.) Walp.		Kode Khabade	2900				
1169	<i>Sabia campanulata</i> Wall. ex Roxb.			1800-3400				
Salicaceae								
1170	<i>Casearia glomerata</i> Roxb.	Powo		600-1700				
1171	<i>Homalium napaulense</i> (DC.) Benth.		Kuphre	700-4500				
1172	<i>Populus ciliata</i> Wall. ex Royle	Himalayan Poplar	Bhote Pipal	2000-3600				
1173	<i>Salix babylonica</i> L.	Weeping Willow	Bains	1400-3700				
1174	<i>Salix calyculata</i> Hook. f. ex Andersson	Small Sepal Willow		3600-4500				
1175	<i>Salix daltoniana</i> Andersson			3400-4400				
1176	<i>Salix disperma</i> Roxb. ex D.Don.		Bains	1500-3600				
1177	<i>Salix eriostachya</i> Wall. ex Andersson			3200-4500				
1178	<i>Salix flabellaris</i> Andersson			3000-4000				

1179	<i>Salix lindleyana</i> Wall. ex Andersson			3800-5000			
1180	<i>Salix nepalensis</i> Yonek.			3870			
1181	<i>Salix sikkimensis</i> Andersson			3800-4400			
Santalaceae							
1182	<i>Osyris lanceolata</i> Hochst. & Steud.	Wild Tea	Noon Dhiki	1100-2600			
1183	<i>Pyralia edulis</i> (Wall.) A. DC.	Thing beng	Amphi, Omi	1600-1800			
Sapindaceae							
1184	<i>Acer acuminatum</i> Wallich ex D. Don		Firfire	2200-3200			
1185	<i>Acer caesium</i> Wallich ex Brandis		Kainja	200-3000			
1186	<i>Acer campbellii</i> Hook. f. & Thoms		Kapasi, Yarla	2100-3600			
1187	<i>Acer cappadocicum</i> Gled.			2100-3000			
1188	<i>Acer oblongum</i> Wallich ex Dc.		Firfire, Nobya	1200-2400			
1189	<i>Acer pectinatum</i> Wall. ex Brandis			2700-3800			
1190	<i>Aesculus indica</i> (Wall. ex Cambess.) Hook.	Indian Horse Chestnut	Pangre, Karu	1800-3000			
1191	<i>Sapindus mukorossi</i> Gaertn.	Chinese soapberry	Rittha	1000-1200			
Sapotaceae							
1192	<i>Diploknema butyracea</i> (Roxb.) H.J.Lam	Indian Butter Tree	Chiuli	Upto1500			
Saururaceae							
1193	<i>Houttuynia cordata</i> Thunb.	Fish Mint	Gane, Gandhe	1300-2500			
1194	<i>Saurua napaulensis</i> DC.	Gogan	Ondho, Tonsi	600-2100			
Saxifragaceae							
1195	<i>Astilbe rivularis</i> Buch.-Ham. ex D.Don	River Astilbe	Thulo Aushadhi	1800-3600			
1196	<i>Bergenia ciliata</i> (Haw.) Sternb.	Friilly bergenia	Pashan Bhed	900-3300	LC		
1197	<i>Bergenia purpurascens</i> (Hook.f. & Thomson) Engl.			3600-4700			
1198	<i>Bergenia stracheyi</i> (Hook.f. & Thomson) Engl.	Himalayan Bergenia	Tulo Pashanbed	3300-4500			
1199	<i>Saxifraga alpigena</i> H. Sm.			3500-4200			Endemic to Manang
1200	<i>Saxifraga andersonii</i> Engl.			3400-5500			
1201	<i>Saxifraga aristulata</i> Hook. f. & Thomson			4200-5600			
1202	<i>Saxifraga brachypoda</i> D. Don			3300-5000			
1203	<i>Saxifraga brunonis</i> Wall. ex Ser.	Brown's Saxifrage		3600-5400			
1204	<i>Saxifraga cinerea</i> H. Sm.			2700			Endemic to Manang
1205	<i>Saxifraga diversifolia</i> Wall. ex Ser.			2400-4800			
1206	<i>Saxifraga engleriana</i> Harry Sm.			3600-4900			
1207	<i>Saxifraga excellens</i> H. Sm.			3600-4700			Endemic to Manang
1208	<i>Saxifraga filicaulis</i> Wall.			2700-3800			
1209	<i>Saxifraga hypostoma</i> H. Sm.			3900-5200			
1210	<i>Saxifraga jacquemontiana</i> Decne.			4000-5200			

1211	<i>Saxifraga lowndesii</i> H. Sm.			3800-4100				Endemic to Nepal
1212	<i>Saxifraga lychnitis</i> Hook. f. & Thomson			4500-5500				
1213	<i>Saxifraga namdoensis</i> Harry Sm.			4500				Endemic to ACA
1214	<i>Saxifraga neopropagulifera</i> H.Hara			4500-5600				Endemic to ACA
1215	<i>Saxifraga parnassifolia</i> D. Don	Himalayan Saxifrage		1900-4900				
1216	<i>Saxifraga poluniniana</i> Harry Sm.			2250-3500				Endemic to ACA
1217	<i>Saxifraga pseudo-pallida</i> Engl. & Irmsch.			3600-5600				
1218	<i>Saxifraga pulvinaria</i> Harry Sm.	White-pitted Saxifrage		3800-5800				
1219	<i>Saxifraga punctulata</i> Engl.			5200-5600				
1220	<i>Saxifraga roylei</i> Harry Sm.			3300-3800				Endemic to ACA
1221	<i>Saxifraga staintonii</i> Harry Sm.			4800-4900				Endemic to Mustang
1222	<i>Saxifraga stella-aurea</i> Hook. fil. & Thoms.			4000-5300				
1223	<i>Saxifraga stenophylla</i> Royle	Ladakh Saxifrage		3600-5700				
1224	<i>Saxifraga strigosa</i> Wall.			2100-4200				
1225	<i>Saxifraga wallichiana</i> Sternb.			4100-5000				
1226	<i>Saxifraga williamsii</i> Harry Sm.			4000-4800				Endemic to Mustang
Schisandraceae								
1227	<i>Schisandra grandiflora</i> (Wall.) Hook.f. & Thomson		Singato, Singato	2100-3300				
Scrophulariaceae								
1228	<i>Buddleja asiatica</i> Lour.	White Butterfly Bush	Narayan Pati	300-2000				
1229	<i>Buddleja paniculata</i> Wall.	Paicled Butterfly Bush		350-2000				
1230	<i>Ellisiophyllum pinnatum</i> (Wall. ex Benth.) Makino			1600-2800				
1231	<i>Lindenbergia grandiflora</i> (Buch.-Ham. ex D. Don) Benth.		Bhendi Phool	700-2400				
1232	<i>Mimulus tenellus</i> var. <i>nepalensis</i> (Benth.) Tshoong			1100-3300				
1233	<i>Oreosolen wattii</i> Hook. f.			4500-5500				
1234	<i>Scrophularia decomposita</i> Royle ex Benth.	Fern-Leaf Figwort		1500-3200				
1235	<i>Scrophularia pauciflora</i> Benth.			2500-4100				
1236	<i>Verbascum thapsus</i> L.	Aaron's Rod	Baandar	1800-4800				
1237	<i>Veronica himalensis</i> D. Don			3000-3500				
Simaroubaceae								
1238	<i>Brucea javanica</i> (L.) Merr.	Chinese Sumac		800-1100				
1239	<i>Picrasma quassioides</i> (D.Don) Benn.			2000-3000				
Solanaceae								
1240	<i>Anisodus luridus</i> Link		Langdang	2500-4300				
1241	<i>Brugmansia suaveolens</i> (Humb. & Bonpl. ex Willd.) Bercht. & J.Presl	White Angel's Trumpet	Dhatura	Upto 1700				
1242	<i>Capsicum annuum</i> L.	Red Pepper	Khursani	Upto 2400				

1243	<i>Datura stramonium</i> L.	Thorn Apple	Dhatura	200-2200				
1244	<i>Hyoscyamus niger</i> L.	Henbane	Khursani Jwanu	2100-3300				
1245	<i>Lycopersicon esculentum</i> Mill.	Love Apple/Tomato	Golvenda	Upto 1400				
1246	<i>Nicandra physalodes</i> (L.) Gaertn.	Apple of Peru		700-2600				
1247	<i>Nicotiana tabacum</i> L.	Tobacco	Surti, Kanchopat	800-1800				
1248	<i>Physalis peruviana</i> L.	Peruvian groundcherry	Jangali Mewa	900-2200				
1249	<i>Physochlaina praealta</i> (Decne.) Miers	Tall Physochlaina		2800-4000				
1250	<i>Solanum aculeatissimum</i> Jacq.	Soda Apple		1600				
1251	<i>Solanum americanum</i> Mill.	Black Nightshade	Kaligedi,	900-2900				
1252	<i>Solanum betaceum</i> Cav.	Tree Tomato	Tamatra	Upto 2000				
1253	<i>Solanum nigrum</i> L.	Black Berry Nightshade	Kaligedi	900-2900				
1254	<i>Solanum tuberosum</i> L.	Potato	Aalu	Upto4400				
1255	<i>Solanum virginianum</i> L.	Dwarf Wild Brinjal	Kantakari	Upto2200				
1256	<i>Withania somnifera</i> (L.) Dunal	Winter Cherry	Ashwagandha	900-2000				
Stachyuraceae								
1257	<i>Stachyurus himalaicus</i> Hook.f. & Thomson ex Benth.		Seto Bhasak	1300-3000				
Symplocaceae								
1258	<i>Symplocos paniculata</i> (Thunb.) Miq.	Asiatic Sweetleaf	Lodh	1000-2700				
1259	<i>Symplocos ramosissima</i> Wall. ex G. Don		Dabdabe	1400-2700				
Tamaricaceae								
1260	<i>Myricaria germanica</i> (L.) Desv.	German Tasarisk		2400-4000				
1261	<i>Myricaria rosea</i> W.W. Sm.			3000-4500				
Theaceae								
1262	<i>Camellia kissii</i> Wall.	Dieng-tyrnem-bhoi	Hinbuwa	900-2000	LC			
1263	<i>Schima wallichii</i> Choisy	Needlewood Tree	Baruwa, Sisyu	200-2100				
Thymelaeaceae								
1264	<i>Daphne bholua</i> Buch.-Ham. ex D. Don	Nepalese Paper Plant	Lokta Pate	1800-3100				
1265	<i>Daphne papyracea</i> Wall. ex G. Don	Indean Paper Plant	Baruvaa, Lokta	1500-2300				
1266	<i>Daphne tangutica</i> Maxim.		Rekemukta	3300-3900				
1267	<i>Stellera chamaejasme</i> L.	Himalayan Stellera	Deuraali Phool	2700-4300				
Urticaceae								
1268	<i>Boehmeria macrophylla</i> Hornem.	False Nettle	Gargalo	800-2700				
1269	<i>Boehmeria rugulosa</i> Wedd.	Dar	Dar, Gargalo	Upto1700				
1270	<i>Boehmeria virgata</i> var. <i>macrostachya</i> (Wight) Friis & Wilmot-Dear			1800-3000				
1271	<i>Chamabainia cuspidata</i> Wight		Gagleto/Khole	1800-2900				
1272	<i>Debregeasia longifolia</i> (Burm.f.) Wedd.	Orange Wild Rhea	Tusaare	1000-2400				
1273	<i>Debregeasia saeneb</i> (Forssk.) Hepper & J.R.I. Wood	Himalayan Wild Rhea	Dar	1000-2400				
1274	<i>Elatostema monandrum</i> (D. Don) H. Hara			1200-3100				

1275	<i>Elatostema sessile</i> J.R.Forst. & G.Forst.		Gagleto	900-3000				
1276	<i>Girardinia diversifolia</i> (Link) Friis	Himalayan Nettle	Ullu, Allo	1200-3000				
1277	<i>Gonostegia hirta</i> (Blume ex Hassk.) Miq.		Chiple Ghas	500-2400				
1278	<i>Lecanthus peduncularis</i> (Wall. ex Royle) Wedd.	Stalked Dischead	Khole Jar	1200-3200				
1279	<i>Pilea glaberrima</i> (Blume) Blume			Upto1700				
1280	<i>Pilea racemosa</i> (Royle.) Tuyama.			2000-3800				
1281	<i>Pilea scripta</i> (Buch.-Ham. ex D. Don) Wedd.	Himalayan Clearweed	Chiple	1000-2500				
1282	<i>Pilea umbrosa</i> Blume	Shady Himalayan Clearweed		1200-2500				
1283	<i>Pouzolzia sanguinea</i> (Blume) Merr.		Lipe/Seti Saag	upto 1500				
1284	<i>Urtica dioica</i> L.	Stinging Nettle	Sisnu	1000-4500				
1285	<i>Urtica hyperborea</i> Jacq. ex Wedd.	Northern Nettle		3500-5100				
Verbenaceae								
1286	<i>Lantana camara</i> L.	Lantana	Banganda	600-1400				
1287	<i>Phyla nodiflora</i> (L.) Greene	Carpet Weed	Jal Pipli	600-1300				
1288	<i>Vitex negundo</i> L.	Five-leaved chaste Tree	Simali	1000-3900				
1289	<i>Vitex negundo</i> var. <i>cannabifolia</i> (Siebold & Zucc.) Hand.-Mazz.		Simali	Upto2000				
Violaceae								
1290	<i>Viola betonicifolia</i> Sm.	Arrowhead Violet		2100-4500				
1291	<i>Viola biflora</i> L.	Yellow Wood Violet		1500-2400				
1292	<i>Viola canescens</i> Wall.	Himalayan White Violet		3000-4700				
1293	<i>Viola kunawarensis</i> Royle	Kinnaur Violet		2100-3000				
1294	<i>Viola pilosa</i> Blume			2500-3200				
1295	<i>Viola thomsonii</i> Oudemans			2200-2400				
1296	<i>Viola wallichiana</i> Ging.	Trailing Violet		1000-2400				
Vitaceae								
1298	<i>Ampelocissus rugosa</i> (Wall.) Planch.		Airee Lahara	Upto1200				
1299	<i>Cissus javana</i> DC.	Climbing Bignonia		1800-3300				
1300	<i>Leea asiatica</i> (L.) Ridsdale							
1301	<i>Parthenocissus semicordata</i> (Wall.) Planch.	Himalayan Woodbine	Baakhre Lahara	900-1800				
1302	<i>Tetrastigma campylocarpum</i> (Kurz) Planch.			1200-2400				
1303	<i>Tetrastigma serrulatum</i> (Roxb.) Planch.		Paani Lahara	upto -2400				
1304	<i>Vitis heyneana</i> Roem. & Schult.			up to 1800				
1305	<i>Vitis Jacquemontii</i> R. Parker		Ponke	2350				
Zygophyllaceae								
1306	<i>Tribulus terrestris</i> L.	Bullhead	Gokhur	3000-4000				
MONOCOTS								
S.N.	Family / Scientific name	Common Name	Vernacular / Local names	Elevation	Conservation status	Endemism		

					IUCN	CITES	G o N	
Amaryllidaceae								
1	<i>Allium carolinianum</i> DC.			3300-4800				
2	<i>Allium cepa</i> L.	Onion	Pyaj	Upto3000				
3	<i>Allium fasciculatum</i> Rendle			2800-4500	LC			
4	<i>Allium hypsistum</i> Stearn		Jimbu	3300-5500				Endemic to ACA
5	<i>Allium oreoprasum</i> Schrenk			2800-5500				
6	<i>Allium prattii</i> C.H.Wright			2400-4500				
7	<i>Allium sikkimense</i> Baker			4000-4800				
8	<i>Allium stracheyi</i> Baker		Reldonate	3600				
9	<i>Allium wallichii</i> Kunth	Himalaya Onion	Dundu Sag, Ban	2400-4700				
10	<i>Zephyranthes carinata</i> Herb.	Rain Lily Pink	Hade Lasun	600-2500				
Araceae								
11	<i>Arisaema consanguineum</i> Schott		Raksya Banko	1800-3000				
12	<i>Arisaema costatum</i> (Wall.) Mart.	Striped Cobra Lily	Kal	1900-2800				
13	<i>Arisaema erubescens</i> (Wall.) Schott	Blushing Cobra Lily		1900-2500				
14	<i>Arisaema flavum</i> (Forssk.) Schott	Yellow Cobra Lily	Banko	1800-4500				
15	<i>Arisaema griffithii</i> Schott	Griffith's Cobra Lily		2400-3000				
16	<i>Arisaema intermedium</i> Blume			2100-3000				
17	<i>Arisaema jacquemontii</i> Blume	Jacquemont's Cobra Lily	Sarpako Makai	2400-4000				
18	<i>Arisaema nepenthoides</i> (Wall.) Mart.	Himalayan Cobra Lily	Tuwa	2000-3300				
19	<i>Arisaema propinquum</i> Schott	Jack in the Pulpit		2400-3800				
20	<i>Arisaema speciosum</i> (Wall.) Mart.	Double-whip Cobra Lily	Dhokayo	1800-3500				
21	<i>Arisaema tortuosum</i> (Wall.) Schott	Whipcord Cobra lily	Sarpako Makai	1300-3000				
22	<i>Arisaema utile</i> Hook.f. ex Schott	Sikkim Cobra Lily		2500-3800				
23	<i>Colocasia esculenta</i> (L.) Schott	Cocoyam/Coffee cup	Karkalo, Gava	Upto1700				
24	<i>Remusatia pumila</i> (D.Don) H.Li & A.Hay		Phyakse	1200-2500				
25	<i>Rhaphidophora decursiva</i> (Roxb.) Schott	Creeping Philodendron		Upto1300				
26	<i>Sauromatum diversifolium</i> (Wall. ex Schott) Cusimano & Hett.	Himalayan Typhonium		2400-4300				
27	<i>Sauromatum venosum</i> (Dryand. ex Aiton) Kunth	Corpse flower		900-2500				
Asparagaceae								
28	<i>Agave cantala</i> (Haw.) Roxb. ex Salm-Dyck	Century plant	Kettuke	Upto1200				
29	<i>Asparagus curillus</i> Buch.-Ham. ex Roxb.			2400-2500				
30	<i>Asparagus filicinus</i> Buch.-Ham. ex D.Don	Fern Asparagus	Ban Kurilo	2100-3000				
31	<i>Asparagus penicillatus</i> H. Hara	Wild Asparagus	Satawari	2000-2400				Endemic to Nepal
32	<i>Asparagus racemosus</i> Willd.	Asparagus	Kurilo	600-2100				
33	<i>Chlorophytum nepalense</i> (Lindl.) Bake	Nepal Chlorophytum	Danti Saag	1400-2500				
34	<i>Maianthemum fuscum</i> (Wall.) LaFrankie			2400-2600				

35	<i>Maianthemum purpureum</i> (Wall.) LaFrankie	Himalayan Mayflower		2600-4200				
36	<i>Ophiopogon clarkei</i> Hook.f.			2400-2800				
37	<i>Ophiopogon intermedius</i> D.Don	Himalayan Lily Turf	Van Kasur	1200-3000				
38	<i>Polygonatum cirrhifolium</i> (Wall.) Royle	Coiling Leaf Solomon Seal		1700-4600				
39	<i>Polygonatum hookeri</i> Baker		Tikta	2900-5000				
40	<i>Polygonatum multiflorum</i> (L.) All.							
41	<i>Polygonatum oppositifolium</i> (Wall.) Royle			1800-2100				
42	<i>Polygonatum punctatum</i> Royle ex Kunth			200-2600				
43	<i>Polygonatum verticillatum</i> (L.) All.	Whorled Solomon's Seal		1500-4700				
44	<i>Rohdea nepalensis</i> (Raf.) N.Tanaka		Taamurke	2100-2800				
45	<i>Theropogon pallidus</i> (Wall. ex Kunth) Maxim.	Himalayan Theropogon		1800-2700				
Colchicaceae								
46	<i>Disporum cantoniense</i> (Lour.) Merr.	Chinese Fairy Bells	Mahjari	1100-2900				
Commelinaceae								
47	<i>Commelina benghalensis</i> L.	Bengal Dayflower	Kane Ghanse		LC			
48	<i>Commelina paludosa</i> Blume	Swamp Dayflower		300-3500				
49	<i>Cyanotis vaga</i> (Lour.) Schult. & Schult.f.	Wandering Dew-grass		800-2700				
Costaceae								
50	<i>Cheilocostus speciosus</i> (J.Koenig) C.D.Specht	Crepe Ginger	Belauri	Upto1500				
Cyperaceae								
51	<i>Carex atrata</i> L.			3500-4400				
52	<i>Carex cruciata</i> Wahlenb.		Saibere	1500-3400				
53	<i>Carex filicina</i> Nees			1200-4400	LC			
54	<i>Carex gammiei</i> (C.B.Clarke) S.R.Zhang & O. Yano							
55	<i>Carex gandakiensis</i> Katsuy.			3350				endemic to Jomsom
56	<i>Carex gracilentata</i> Boott ex Boeckeler			3400-4100				
57	<i>Carex haematostoma</i> Nees							
58	<i>Carex himalaica</i> T.Koyama			4000-4200				endemic to Manang
59	<i>Carex kokanica</i> (Regel) S.R.Zhang			3500-4600				
60	<i>Carex myosurus</i> Nees		Sedu	800-2900	LC			
61	<i>Carex nubigena</i> D.Don			1500-4000				
62	<i>Carex parvula</i> O.Yano			1100-5600				
63	<i>Carex rufulistolon</i> T.Koyama			3100				
64	<i>Carex vesiculosa</i> Boott			1950-2300				
65	<i>Ceropegia meleagris</i> H.Huber			2000-2500				
66	<i>Cyperus compactus</i> Retz.			Upto1500				
67	<i>Cyperus cyperinus</i> (Retz.) Suringar	Old world flat sedge	Karaunte	Up1700				

68	<i>Cyperus difformis</i> L.	Dirty-Dora	Mothe	Upto2700	LC				
69	<i>Cyperus distans</i> L.f.			Upto1100					
70	<i>Cyperus iria</i> L.		Mothe, Chhaire	Upto1800	LC				
71	<i>Cyperus rotundus</i> L.	Coco-grass	Kasur, Mothe	Upto2400	LC				
72	<i>Cyperus squarrosus</i> L.	Bearded flatsedge		1000-2700					
73	<i>Eriophorum comosum</i> (Wall.) Nees	Hairy Cottongrass	Furke Jhaar	500-2600					
74	<i>Fimbristylis umbellaris</i> (Lam.) Vahl		Jwane	Upto1100					
75	<i>Kobresia esbirajbandarii</i> Rajbh. & H.Ohba			3970-4700				Enedemic to ACA	
76	<i>Kobresia esenbeckii</i> (Kunth) Noltie			3000-4000					
77	<i>Kobresia fissiglumis</i> C.B.Clarke			3650-3950					
78	<i>Kobresia mallae</i> Rajbh. & H.Ohba			3550-4570				Endemic to Mustang	
79	<i>Kobresia nepalensis</i> (Nees) Kük.			2900-5700					
80	<i>Kyllinga brevifolia</i> Rottb.	White-flowered kyllinga	Sano Mothe	Upto2300	LC				
81	<i>Kyllinga gracillima</i> Miq.		Sano Mothe	2600-2900					
82	<i>Kyllinga brevifolia</i> Rottb.			2600-2900					
83	<i>Pycreus sanguinolentus</i> (Vahl) Nees			800-2900	LC				
Dioscoreaceae									
84	<i>Dioscorea alata</i> L.	Asiatic Yam	Tarul, Kukur	Upto1200					
85	<i>Dioscorea bulbifera</i> L.	Arial Yam/ Air Potato	Bhyakur	Upto2100					
86	<i>Dioscorea deltoidea</i> Wall. ex Griseb.	Medicinal Yam/ Elephant's foot	Bhyakur	Upto3100		II			
87	<i>Dioscorea pentaphylla</i> L.	Cowan Yam/ Five leaf Yam	Bantarul, Mitho	Upto2000					
88	<i>Dioscorea prazeri</i> Prain & Burkill			900					
Iridaceae									
89	<i>Iris goniocarpa</i> Baker	Iris		3600-4400					
90	<i>Iris kemaonensis</i> Wall. ex D.Don	Kumaon Iris		1500-4000					
Juncaceae									
91	<i>Juncus concinnus</i> D. Don			1800-5200					
92	<i>Juncus duthiei</i> (C.B. Clarke) H.J. Noltie			3000-4877					
93	<i>Juncus himalensis</i> Klotzsch	Himalayan Rush		3000-5200					
94	<i>Juncus mustangensis</i> Miyam. & H.Ohba			2300-2600				Endemic to Mustang	
95	<i>Juncus sphacelatus</i> Decne.			4100-5200					
96	<i>Juncus thomsonii</i> Buchenau	Thomson's rush		2700-5200					
97	<i>Juncus triglumis</i> L.			2500-3400					
98	<i>Luzula multiflora</i> (Retz.) Lej.			3200-400					
Liliaceae									
99	<i>Cardiocrinum giganteum</i> (Wall.) Makino	Gaint Himalayan Lily	Ghiu Pat	1800-3000					

100	<i>Clintonia udensis</i> Trautv. & C.A.Mey.	Bead Lily		3000-4000			
101	<i>Fritillaria cirrhosa</i> D.Don			2700-4000			
102	<i>Lilium nanum</i> Klotzsch			3300-3900			
103	<i>Lilium nepalense</i> D.Don		Khairaule	2300-3500			
104	<i>Lilium wallichianum</i> Schult. & Schult.f.			1100-2400			
105	<i>Lloydia sp</i>			3000-5000			
106	<i>Notholirion macrophyllum</i> (D. Don) Boiss.			2700-4400			
107	<i>Streptopus simplex</i> D.Don	Simple Twisted Stalk		2400-4000			
Orchidaceae							
108	<i>Acampe praemorsa</i> (Roxb.) Blatt. & McCann	Epiphytic	Bhujung area	Upto 1500		II	
109	<i>Acampe rigida</i> (Buch.-Ham. ex Sm.) P.F.Hunt	Epiphytic	Bhujung	800-1200		II	
110	<i>Aerides multiflora</i> Roxb.	Epiphytic	ACA	200-1200		II	
111	<i>Aerides odorata</i> Lour.	Epiphytic	Bhujung	800-1202		II	
112	<i>Agrostophyllum callosum</i> Rchb.f.	Epiphytic	Bhujung	800-1800		II	
113	<i>Anthogonium gracile</i> Wall. ex Lindl.	Terrestrial	Bhujung	1200-2000		II	
114	<i>Arundina graminifolia</i> (D.Don) Hochr.	Terrestrial	Khudi, Singdi	700-1500		II	
115	<i>Brachycorythis obcordata</i> (Lindl. ex Wall.) S	Terrestrial	Halemdi	1000-2600		II	
116	<i>Bulbophyllum affine</i> Wall. ex Lindl.	Epiphytic	Bhujung	1000-1500		II	
117	<i>Bulbophyllum ambrosia</i> subsp. <i>nepalensis</i> J.J.Wood	Epiphytic	Lumle & Thulo kharka	1900-2000		II	
118	<i>Bulbophyllum careyanum</i> Spreng.	Epiphytic	Bhujung area	Upto 1200		II	
119	<i>Bulbophyllum cariniflorum</i> Rchb. f.	Epiphytic	Bhujung	18000		II	
120	<i>Bulbophyllum caudatum</i> Lindl.	Epiphytic	Bhujung	1650		II	
121	<i>Bulbophyllum cylindraceum</i> Lindl.	Epiphytic	Bhujung area	1600-2400		II	
122	<i>Bulbophyllum eublepharum</i> Rchb.f.	Epiphytic	Bhujung	2100		II	
123	<i>Bulbophyllum leopardinum</i> (Wall.) Lindl. ex Wall.	Epiphytic	Bhujung	1200-2200	LC	II	
124	<i>Bulbophyllum moniliforme</i> C.S.P.Parish & Rchb.f.	Epiphytic	Bhujung area	1500		II	
125	<i>Bulbophyllum muscicola</i> Rchb.f.	Epiphytic	Bhujung	2488		II	
126	<i>Bulbophyllum odoratissimum</i> (Sm.) Lindl. ex Wall.	Epiphytic	Bhujung	1200-1700		II	
127	<i>Bulbophyllum polyrrhizum</i> Lindl.	Epiphytic	Bhujung	1100-1700		II	
128	<i>Bulbophyllum reptans</i> (Lindl.) Lindl. ex Wall.	Epiphytic	Singdi	1200-1700		II	
129	<i>Bulbophyllum rolfei</i> (Kuntze) Seidenf.	Epiphytic	Lwang, Bhujng	2000-2500		II	
130	<i>Bulbophyllum striatum</i> Rchb.f.	Epiphytic	Bhujung area	2000-2300		II	
131	<i>Bulbophyllum umbellatum</i> Lindl.	Epiphytic	Lek Gaon	300-2200		II	
132	<i>Bulbophyllum viridiflorum</i> (Hook.f.) Schltr.	Epiphytic	Bhujung	1500-2300		II	
133	<i>Calanthe alpina</i> Hook. f. ex Lindl.	Terrestrial	Bhujung area	2800-3500		II	
134	<i>Calanthe brevicornu</i> Lindl.	Terrestrial	Bhujung	1800-2200		II	
135	<i>Calanthe mannii</i> Hook.f.	Terrestrial	Bhujung	1800-2500		II	
136	<i>Calanthe plantaginea</i> Lindl.	Terrestrial	Bhujung,	2100		II	

137	<i>Calanthe puberula</i> Lindl.	Terrestrial	Timang, Bhujung	1900-2930		II	
138	<i>Calanthe sylvatica</i> (Thouars) Lindl.	Terrestrial	Lwang area	1500-2800		II	
139	<i>Calanthe tricarinata</i> Lindl.	Terrestrial	Leter, Taghring,	1500-3200		II	
140	<i>Cephalanthera longifolia</i> (L.) Fritsch	Terrestrial	Manang	1200-3200		II	
141	<i>Coelogyne corymbosa</i> Lindl.	Epiphytic	Taghring	2000		II	
142	<i>Coelogyne cristata</i> Lindl.	Epiphytic	Bhujung	1000-2000		II	
143	<i>Coelogyne flaccida</i> Lindl.	Epiphytic	Lwang /Bhujung	1000-1300		II	
144	<i>Coelogyne fuscescens</i> Lindl.	Epiphytic	Bhujung	900-1800		II	
145	<i>Coelogyne nitida</i> (Wall. ex D.Don) Lindl.	Epiphytic	Bhujung /Manang	1900-2500		II	
146	<i>Coelogyne ovalis</i> Lindl.	Epiphytic	Singdi	1300-1700		II	
147	<i>Coelogyne prolifera</i> Lindl.	Epiphytic	Tanghring	1700		II	
148	<i>Coelogyne punctulata</i> Lindl.	Epiphytic	Bhujung	2000		II	
149	<i>Coelogyne stricta</i> (D. Don) Schltr.	Epiphytic	Bhujung	1000-1900		II	
150	<i>Cremastra appendiculata</i> (D.Don) Makino	Terrestrial	Bhujung	2100		II	
151	<i>Crepidium acuminatum</i> (D.Don) Szlach.	Terrestrial	Bhujung	1200-2100		II	
152	<i>Crepidium calophyllum</i> (Rchb.f.) Szlach.	Terrestrial	Lek Gaon, Bhujung	600-1500		II	
153	<i>Crepidium purpureum</i> (Lindl.) Szlach.	Terrestrial	Bhujung	1500		II	
154	<i>Cryptochilus luteus</i> Lindl.	Epiphytic	Bhujung	1500		II	
155	<i>Cymbidium aloifolium</i> (L.) Sw.	Epiphytic	Simpani	700-1500		II	
156	<i>Cymbidium bicolor</i> Lindl.	Epiphytic	Bhujung	1000		II	
157	<i>Cymbidium elegans</i> Lindl.	Epiphytic	Bhujung	1700		II	
158	<i>Cymbidium erythraeum</i> Lindl.	Epiphytic	Bhujung, Kamagaun	1300-2300		II	
159	<i>Cymbidium iridioides</i> D.Don	Epiphytic	Kadelun	1100-1800		II	
160	<i>Cypripedium cordigerum</i> D.Don	Terrestrial	Hum Khola	2100-4000	VU	II	
161	<i>Cypripedium elegans</i> Rchb. f.	Terrestrial	Mustang	3000-4200	EN	II	
162	<i>Cypripedium himalaicum</i> Rolfe	Terrestrial	ACA	3000-4800	EN	II	
163	<i>Dactylorhiza hatagirea</i> (D. Don) Soó	Terrestrial	Manang, Mustang, Bhujung	2800-4000		II	
164	<i>Dendrobium amoenum</i> Wall. ex Lindl.	Epiphytic	Tal Vilage, Khudi	800-2200		II	
165	<i>Dendrobium amplum</i> Lindl.	Epiphytic	Khudi	1400-1800		II	
166	<i>Dendrobium aphyllum</i> (Roxb.) C.E.C.Fisch.	Epiphytic	Khudi	800-1500	LC	II	
167	<i>Dendrobium chrysanthum</i> Wall. ex Lindl.	Epiphytic	Bhujung	1200-1700		II	
168	<i>Dendrobium crepidatum</i> Lindl. & Paxton	Epiphytic	Bhujung	1200-1400		II	
169	<i>Dendrobium densiflorum</i> Lindl.	Epiphytic	Tal Vilage, Ghiche	800-1800		II	
170	<i>Dendrobium denudans</i> D.Don	Epiphytic	Singdi	1000- 19000		II	
171	<i>Dendrobium eriiflorum</i> Griff.	Epiphytic	Dharapani	1850		II	

			Manang, Bhujung				
172	<i>Dendrobium fimbriatum</i> Hook.	Epiphytic	Khulung Odhara	1000-2100		II	
173	<i>Dendrobium heterocarpum</i> Wall. ex Lindl.	Epiphytic	Kadelun	1100-1800		II	
174	<i>Dendrobium longicornu</i> Lindl.	Epiphytic	Swarna Phaant, Kama Guan	1200-2400		II	
175	<i>Dendrobium moniliforme</i> (L.) Sw.	Epiphytic	Bhujung	2025		II	
176	<i>Dendrobium moschatum</i> (Buch.-Ham.) Sw.	Epiphytic	Bhujung area	1200		II	
177	<i>Dendrobium polyanthum</i> Wall. ex Lindl.	Epiphytic	Bhujung	1100-1400		II	
178	<i>Dendrobium porphyrochilum</i> Lindl.	Epiphytic	Sikels, Bhujung	1800-2500		II	
179	<i>Dendrobium transparens</i> Wall. ex Lindl.	Epiphytic	Simpani	1300		II	
180	<i>Dienia cylindrostachya</i> Lindl.	Terrestrial	Thonche	2600-3500		II	
181	<i>Epipactis helleborine</i> (L.) Crantz	Terrestrial	Tukuche, Manang	2000-4000		II	
182	<i>Epipactis royleana</i> Lindl.	Terrestrial	Chame/Pisang/ Bhraka	1600-3500		II	
183	<i>Epipogium aphyllum</i> Sw.	Saprophytic	Bhraka Manang	3450		II	
184	<i>Epipogium roseum</i> (D.Don) Lindl.	Saprophytic	Bhujung	1700		II	
185	<i>Eria annapurnensis</i> L.R.Shakya & M.R.Shrestha	Epiphytic	Chhomrong	2000		II	Endemic
186	<i>Eria carinata</i> Gibson ex Lindl.	Epiphytic	Jagat- Dharapani	1430-2000		II	
187	<i>Eria clausa</i> King & Pantl.	Epiphytic	Bhujung	1800-2200		II	
188	<i>Eria coronaria</i> (Lindl.) Rchb.f.	Epiphytic	Thulakharak thanchok Manang	1950		II	
189	<i>Eria excavata</i> Lindl.	Epiphytic	Lumle, Kaski	900-1000		II	Endemic
190	<i>Eria pokharensis</i> Bajrach., Subedi & K. K. Shrestha	Epiphytic	ACA	1700-2800		II	
191	<i>Eria spicata</i> (D.Don) Hand.-Mazz.	Epiphytic	ACA	1500-2400		II	
192	<i>Eria apertiflora</i> Summerh.	Epiphytic	Bhujung area	1470		II	
193	<i>Eulophia dabia</i> (D.Don) Hochr.	Terrestrial	Himalaya- Hinku odar, Kaski	2750		II	
194	<i>Eulophia explanata</i> Lindl.	Terrestrial	Dhukurpokhari/ Bhratang	3000-5500		II	
195	<i>Flickingeria fugax</i> (Rchb.f.) Seidenf.	Epiphytic	Bhujung	2500		II	
196	<i>Galearis spathulata</i> (Lindl.) P.F.Hunt	Terrestrial	Ghalemndi, Simpani	7000-1000		II	

197	<i>Galeola lindleyana</i> (Hook.f. & Thomson) Rchb.f.	Saprophytic	Lwang area	2500-3000		II	
198	<i>Gastrochilus calceolaris</i> (Buch.-Ham. ex Sm.) D.Don	Epiphytic	Bhimthang /Manang	3200-4700		II	
199	<i>Gastrodia elata</i> Blume	Saprophytic	Deurali	2400		II	
200	<i>Geodorum densiflorum</i> (Lam.) Schltr.	Terrestrial	Bhujung area	1400		II	
201	<i>Goodyera fusca</i> (Lindl.) Hook.f.	Terrestrial	Dhukurpokhari	2400-4200		II	
202	<i>Goodyera henryi</i> Rolfe	Terrestrial	Bhujung	2500		II	
203	<i>Goodyera procera</i> (Ker Gawl.) Hook.	Terrestrial	Banthanti-Ghorepani, Kaski	3100		II	
204	<i>Goodyera repens</i> (L.) R.Br.	Terrestrial	Dhukurpokhari	2400-3900		II	
205	<i>Goodyera vittata</i> (Lindl.) Benth. ex Hook.f.	Terrestrial	Ghasa	1500-2900		II	
206	<i>Gymnadenia orchidis</i> Lindl.	Terrestrial	Besin Gaon, Bhujung	1800		II	
207	<i>Habenaria aitchisonii</i> Rchb.f.	Terrestrial	Khudi	800		II	
208	<i>Habenaria arietina</i> Hook.f.	Terrestrial	Khelung Odar	1800-3000		II	
209	<i>Habenaria dentata</i> (Sw.) Schltr.	Terrestrial	Bhujung	1700-2000		II	
210	<i>Habenaria digitata</i> Lindl.	Terrestrial	Bhujung area	1000-1600		II	
211	<i>Habenaria gibsonii foetida</i> Blatt. & McCann	Terrestrial	Muktinath Temple	3750		II	
212	<i>Habenaria intermedia</i> D.Don	Terrestrial	Tharkot Mustang	3800		II	
213	<i>Habenaria pectinata</i> D.Don	Terrestrial	Bhujung	2000		II	
214	<i>Habenaria pubescens</i> Lindl.	Terrestrial	Bhujung area	1200		II	
215	<i>Herminium alaschanicum</i> Maxim.	Terrestrial	Ommang	3700		II	
216	<i>Herminium albomarginatum</i> (King) X.H.Jin, Schuit., Raskoti & Lu Q.Huang	Terrestrial	Bhujung area	3400-4300			
217	<i>Herminium chloranthum</i> Tang & F.T.Wang	Terrestrial	Ghorepani-Pun Hill, Kaski	3100		II	
218	<i>Herminium clavigerum</i> (Lindl.) X.H.Jin, Schuit., Raskoti & Lu Q.Huang	Terrestrial	Manang/Pisang	1500-3000		II	
219	<i>Herminium duthiei</i> Hook.f.	Terrestrial	Muktinath-Thorungse Phedi	2700-4600		II	
220	<i>Herminium josephi</i> Rchb.f.	Terrestrial	Muktinath-Thorungse Phedi	3000-4300		II	
221	<i>Herminium lanceum</i> (Thunb. ex Sw.) Vuijk	Terrestrial	Khilapu Dana	2200		II	
222	<i>Herminium mackinnonii</i> Duthie	Terrestrial	Bhujung area	2100-2700		II	
223	<i>Herminium macrophyllum</i> (D.Don) Dandy	Terrestrial	Bhujung	1500-1700		II	
224	<i>Herminium monorchis</i> (L.) R.Br.	Terrestrial	Syange	1400		II	
225	<i>Liparis campylostalix</i> Rchb.f.	Terrestrial	Khudi, Taghring	2100		II	

226	<i>Liparis deflexa</i> Hook.f.	Terrestrial	Bhujung	1500-2300		II		
227	<i>Liparis elliptica</i> Wight	Epiphytic	Koprong	2300		II		
228	<i>Liparis petiolata</i> (D.Don) P.F.Hunt & Summerh.	Terrestrial	Khudi, Taghring	800-1700		II		
229	<i>Liparis resupinata</i> Ridl.	Epiphytic	Muktinath	3950		II		
230	<i>Liparis rostrata</i> Rchb.f.	Terrestrial	Manang/Pisang	2500-4100		II		
231	<i>Luisia trichorrhiza</i> (Hook.) Blume	Epiphytic	Bhujung	1500		II		
232	<i>Malaxis monophyllos</i> (L.) Sw.	Terrestrial	Ghandruk Deorali - Banthanti	2550		II		
233	<i>Malaxis muscifera</i> (Lindl.) Kuntze	Terrestrial	Pisang-Bhraka	3100		II		
234	<i>Mycaranthes floribunda</i> (D.Don) S.C.Chen & J.J.Wood	Epiphytic	Bamboo- Dovan, Kaski	2240		II		
235	<i>Myrmecis pumila</i> (Hook.f.) Tang & F.T.Wang	Terrestrial	Phengthang Near Jomsom	2600		II		
236	<i>Neottia listeroides</i> Lindl.	Saprophytic	Below Khopra	3700-5000		II		
237	<i>Neottia pinetorum</i> (Lindl.) Szlach.	Terrestrial	Pisang-Bhraka	3150		II		
238	<i>Neottia tenii</i> Schltr.	Saprophytic	Bhujung, Kokhetanthi	2500-3000		II		
239	<i>Neottianthe calcicola</i> (W.W.Sm.) Schltr.	Terrestrial	Bhujung	1230		II		
240	<i>Neottianthe cucullata</i> (L.) Schltr.	Terrestrial	Khudi/ Bhulbhule	800		II		
241	<i>Neottianthe secundiflora</i> (Kraenzl.) Schltr.	Terrestrial	Bhujung	1000-2000		II		
242	<i>Nervilia concolor</i> (Blume) Schltr.	Terrestrial	Bhujung	1200		II		
243	<i>Nervilia plicata</i> (Andrews) Schltr.	Terrestrial	Bhujung	1000-2000		II		
244	<i>Oberonia acaulis</i> Griff.	Epiphytic	Bhujung	1000-2000		II		
245	<i>Oberonia cavaleriei</i> Finet	Epiphytic	Chandrakot, Kaski, Bhujung	1600-1900		II		
246	<i>Oberonia ensiformis</i> (Sm.) Lindl.	Epiphytic	Bhujung	1600-1900		II		
247	<i>Oberonia falcata</i> King & Pantl.	Epiphytic	ACA	Upto1650		II		
248	<i>Oberonia longilabris</i> King & Pantl.	Epiphytic	Taghring	2700-3300		II		
249	<i>Oberonia obcordata</i> Lindl.	Epiphytic	Bhujung area	1100-1800		II		
250	<i>Oberonia pachyrachis</i> Rchb.f. ex Hook.f.	Epiphytic	Chame/Pisang	2500-3200		II		
251	<i>Oberonia rufilabris</i> Lindl.	Epiphytic	Chame/Pisang	2600-3100		II		
252	<i>Odontochilus lanceolatus</i> (Lindl.) Blume	Terrestrial	Bhujung area	1595		II		
253	<i>Oreorchis foliosa</i> (Lindl.) Lindl.	Terrestrial	Manang, Bhujung	2650		II		
254	<i>Oreorchis foliosa</i> var. <i>indica</i> (Lindl.) N. Pearce & P. J. Cribb	Terrestrial	Bhujung	1300-1600		II		
255	<i>Oreorchis micrantha</i> Lindl.	Terrestrial	Bhujung	1000-2000		II		
256	<i>Oreorchis nepalensis</i> N. Pearce & P. J. Cribb	Terrestrial	ABC	1500-2000		II		

257	<i>Otochilus albus</i> Lindl.	Epiphytic	Lwang area	1500-2400		II		
258	<i>Otochilus fuscus</i> Lindl.	Epiphytic	Besin Gaon	150-1800		II		
259	<i>Otochilus lancilabius</i> Seidenf.	Epiphytic	ACA	450-900		II		
260	<i>Panisea demissa</i> (D.Don) Pfitzer	Epiphytic	Humde Manang, Bhujung	3550		II		
261	<i>Pecteilis susannae</i> (L.) Raf.	Terrestrial	Ghandruk Deorali- Banthanti	2550		II		
262	<i>Peristylus affinis</i> (D.Don) Seidenf.	Terrestrial	Bhujung	1000-200		II		
263	<i>Peristylus elizabethae</i> (Duthie) R.K.Gupta	Terrestrial	Khilaphu Dana	2200		II		
264	<i>Peristylus fallax</i> Lindl.	Terrestrial	Bhujung	1650		II		
265	<i>Peristylus goodyeroides</i> (D.Don) Lindl.	Terrestrial	Bhujung, Simpani	1500		II		
266	<i>Phalaenopsis difformis</i> (Wall. ex Lindl.) Kocyan & Schuit.	Epiphytic	Bhujung, Taghring	700-1800		II		
267	<i>Phalaenopsis taenialis</i> (Lindl.) Christenson & Pradhan	Epiphytic	jalthale	800-2700		II		
268	<i>Pholidota articulata</i> Lindl.	Epiphytic	ACA	500-2200		II		
269	<i>Pholidota imbricata</i> Hook.	Epiphytic	Khudi	1400-1700		II		
270	<i>Pholidota pallida</i> Lindl.	Epiphytic	Bhujung	2500-2700		II		
271	<i>Pholidota protracta</i> Hook.f.	Epiphytic	Koketani	1200-3600		II		
272	<i>Pinalia bipunctata</i> (Lindl.) Kuntze	Epiphytic	ABC	2280		II		
273	<i>Platanthera bakeriana</i> (King & Pantl.) Kraenzl.	Terrestrial	Bhujung	1500		II		
274	<i>Platanthera edgeworthii</i> (Hook.f. ex Collett) R.K.Gupta	Terrestrial	Bhujung	2600-3100		II		
275	<i>Platanthera japonica</i> (Thunb.) Lindl.	Terrestrial	Bhujung	1800		II		
276	<i>Platanthera latilabris</i> Lindl.	Terrestrial	Deurali	3200		II		
277	<i>Platanthera leptocaulon</i> (Hook.f.) Soó	Terrestrial	Bhujung area	3000-4300		II		
278	<i>Platanthera sikkimensis</i> (Hook.f.) Kraenzl.	Terrestrial	Bhujung	2800-3200		II		
279	<i>Platanthera stenantha</i> (Hook.f.) Soó	Terrestrial	Taghring	2100		II		
280	<i>Platanthera stenoglossa</i> Hayata	Terrestrial	Taghring, Chame	2000-3000		II		
281	<i>Platanthera urceolata</i> (Hook.f.) R.M.Bateman	Terrestrial	Bhujung	1800-2500		II		
282	<i>Pleione hookeriana</i> (Lindl.) J. Moore	Epiphytic	Bhujung	800-1300		II		
283	<i>Pleione humilis</i> (Sm.) D.Don	Terrestrial	Manang, Mustang, Bhujung, Hum khola	2400-4900		II		
284	<i>Pleione praecox</i> (Sm.) D.Don	Terrestrial	Simpani, Khudi	800-1200		II		
285	<i>Podochilus cultratus</i> Lindl.	Epiphytic	Bhujung	1800		II		
286	<i>Ponerorchis chusua</i> (D.Don) Soó	Terrestrial	Khopra, Manang, Titi	600-4600		II		

287	<i>Porpax elwesii</i> Rolfe	Epiphytic	Bhujung area	800-1800		II		
288	<i>Rhynchostylis retusa</i> (L.) Blume	Epiphytic	Simpani	800-100		II		
289	<i>Satyrium nepalense</i> var. <i>ciliatum</i> (Lindl.) Hook.f.	Terrestrial	LekGaon	1500-4600		II		
290	<i>Satyrium nepalense</i> D.Don	Terrestrial	Dharapani Tal	100-4600		II		
291	<i>Smitinandia micrantha</i> (Lindl.) Holttum	Epiphytic	Bhujung	1500-2300		II		
292	<i>Spathoglottis ixioides</i> (D.Don) Lindl.	Terrestrial	Bhujung	1500-2300		II		
293	<i>Spiranthes spiralis</i> (L.) Chevall.	Terrestrial	Bhujung area	1400		II		
294	<i>Spiranthes sinensis</i> (Pers.) Ames	Terrestrial	Paudar, Kaski	1750		II		
295	<i>Sunipia bicolor</i> Lindl.	Epiphytic	Bhujung	2170		II		
296	<i>Sunipia cirrhata</i> (Lindl.) P.F.Hunt	Epiphytic	Bhujung	1000-2000		II		
297	<i>Taeniophyllum scaberulum</i> Hook.f.	Epiphytic	Bhujung, Khudi	800-2200		II		
298	<i>Tainia minor</i> Hook.f.	Epiphytic	Khudi, Taghring	1600-2200		II		
299	<i>Thunia alba</i> (Lindl.) Rchb.f.	Epiphytic	Bhujung	3000-3200		II		
300	<i>Thunia alba</i> var. <i>bracteata</i> (Roxb.) N.Pearce & P.J.Cribb	Epiphytic	Bhujung area	1600		II		
301	<i>Vanda cristata</i> Wall. ex Lindl.	Epiphytic	Bhujung	800-1600		II		
302	<i>Vandopsis undulata</i> (Lindl.) J.J.Sm.	Epiphytic	Bhujung	900-1300		II		
303	<i>Zeuxine flava</i> (Wall. ex Lindl.) Trimen	Terrestrial	Chyamche, Bhujung	1500		II		
304	<i>Zeuxine strateumatica</i> (L.) Schltr.	Terrestrial	Bhujung	900-1200	LC	II		
305	<i>Zeuxine affinis</i> (Lindl.) Benth. ex Hook.f.	Terrestrial	Khudi, Bhujung	800-1200		II		
Poaceae								
306	<i>Agrostis hookeriana</i> C.B.Clarke ex Hook.f.			3500-5000				
307	<i>Agrostis micrantha</i> Steud.			3200-3500				
308	<i>Agrostis pilosula</i> Trin.			2000-4600				
309	<i>Andropogon munroi</i> C.B.Clarke		Khari	1500-4000				
310	<i>Apluda mutica</i> L.	Mauritian Grass	Dakle Khar	800-2500				
311	<i>Arthraxon hispidus</i> (Thunb.) Makino			700-3100				
312	<i>Arundinella nepalensis</i> Trin.		Igari, Irnu,	500-2500				
313	<i>Arundo donax</i> L.	Giant Reed/Cana Brava		2100-3100	LC			
314	<i>Avena sativa</i> L.	Common Oat	Jai	2000-4500				
315	<i>Bambusa nutans</i> Wall. ex Munro			Upto 1700				
316	<i>Brachypodium sylvaticum</i> (Huds.) P.Beauv.			3000-3500				
317	<i>Briza media</i> L.			3000-3200				
318	<i>Bromus himalaicus</i> Stapf		Duchii	3500-3700				
319	<i>Calamagrostis lahulensis</i> G.Singh		Kauli Gaju,	2300-4000				
320	<i>Calamagrostis pseudophragmites</i> (Haller f.) Koeler			1500-4600	LC			
321	<i>Calamagrostis scabrescens</i> Griseb.			3000-4600				
322	<i>Carex orbicularis</i> Boott			2500-3400	LC			
323	<i>Chrysopogon aciculatus</i> (Retz.) Trin.	Love grass	Kuro	Upto 1700				

324	<i>Chrysopogon gryllus</i> (L.) Trin.		Salima	800-1900			
325	<i>Coix lacryma-jobi</i> L.	Job's tear grass		Upto 1900			
326	<i>Cymbopogon pendulus</i> (Nees ex Steud.) W.Watson		Pire Ghans	3000-3300			
327	<i>Cynodon dactylon</i> (L.) Pers.	Bermuda Grass	Doobo	Upto 3000			
328	<i>Cyrtococcum patens</i> var. <i>latifolium</i> (Honda) Ohwi						
329	<i>Dactylis glomerata</i> L.	Orchard Grass		3200-3700			
330	<i>Dendrocalamus hamiltonii</i> Nees & Arn. ex Munro		Tama Bans, Rin	Upto 2000			
331	<i>Dendrocalamus strictus</i> (Roxb.) Nees	Male/solid Bamboo	Bans	Upto 1500			
332	<i>Deschampsia cespitosa</i> (L.) P.Beauv.			2900-4600			
333	<i>Desmostachya bipinnata</i> (L.) Stapf	Sacrificial Grass	Kush	4800			
334	<i>Digitaria ciliaris</i> (Retz.) Koeler	Bamboo grass/crabgrass	Banso	600-1500			
335	<i>Digitaria cruciata</i> (Nees) A.Camus		Kalobanso	1300-3500			
336	<i>Digitaria setigera</i> Roth	Itchy crabgrass		Upto 1700			
306	<i>Digitaria violascens</i> Link	Violet Crab Grass		upto3100			
307	<i>Drepanostachyum falcatum</i> (Nees) Keng f.		Nigalo, Go	1200-3600			
308	<i>Drepanostachyum intermedium</i> (Munro) Keng f.	Intermediate Cane Bamboo	Tite Nigalo	1200			
309	<i>Drepanostachyum khasianum</i> (Munro) Keng f.			1500-2000			
310	<i>Eleusine indica</i> (L.) Gaertn.	Cowfoot grass	Kode jhar	600-2600	LC		
311	<i>Elymus nutans</i> Griseb.			3600-4600			
312	<i>Eragrostis nigra</i> Nees ex Steud.		Masai,	900-3000			
313	<i>Eremopoa persica</i> (Trin.) Roshev.			2900-3100			
314	<i>Eulalia mollis</i> (Griseb.) Kuntze			2000-3700			
315	<i>Eulaliopsis binata</i> (Retz.) C.E.Hubb.	Sabai Grass	Babiyo	Upto 2600			
316	<i>Festuca cumminsii</i> Stapf			1800-3600			
317	<i>Festuca gigantea</i> (L.) Vill.			2300-2600			
318	<i>Festuca ovina</i> L.			3500-5600			
319	<i>Helictotrichon junghuhnii</i> (Buse) Henrard			2100-4400			
320	<i>Heteropogon contortus</i> (L.) P.Beauv. ex Roem. & Schult.	Spear Grass	Arthunge	400-2600			
321	<i>Himalayacalamus brevinodus</i> Stapleton			1500			
322	<i>Himalayacalamus asper</i> Stapleton			2000			
323	<i>Himalayacalamus cupreus</i> Stapleton			2500			
324	<i>Thamnocalamus chigar</i> (Stapleton)			3000			
325	<i>Hordeum vulgare</i> L.	Barley	Jau	Upto 3200			
326	<i>Imperata cylindrica</i> (L.) Raeusch.	Cogon Grass	Siru	700-2400			
327	<i>Isachne albens</i> Trin.			1800-2300	LC		
328	<i>Isolepis setacea</i> (L.) R.Br.						
329	<i>Leymus secalinus</i> (Georgi) Tzvelev			700-3500			
330	<i>Microstegium nudum</i> (Trin.) A.Camus			1800-3200			

331	<i>Miscanthus nepalensis</i> (Trin.) Hack.	Nepalese silver grass		1100-3000				
332	<i>Muhlenbergia huegelii</i> Trin.			2100-3100				
333	<i>Oplismenus compositus</i> (L.) P.Beauv.	Banh-potia-bon		300-2800				
334	<i>Oryza sativa</i> L.	Paddy	Dhan	Upto 1700				
335	<i>Paspalum distichum</i> L.	Ginger Grass		Upto 2000				
336	<i>Pennisetum flaccidum</i> Griseb.	Himalayan Fountain Grass		1700-4300				
306	<i>Pennisetum glaucum</i> (L.) R.Br.	Pearl Millet	Kukur Banso,	900-2300				
307	<i>Phleum alpinum</i> L.			2500-3700	LC			
308	<i>Phragmites karka</i> (Retz.) Trin. ex Steud.		Jak, Narkat	3500-4000	LC			
309	<i>Piptatherum laterale</i> (Regel) Nevski		Tuchi	3700-4000				
310	<i>Poa alpigena</i> Lindm.		Ramba	4000-5800				
311	<i>Poa annua</i> L.	Annual Meadow Grass		2300-3300	LC			
312	<i>Poa muktinathensis</i> Rajbh			2600-4100				Endemic to Mustang
313	<i>Poa mustangensis</i> Rajbh.			4800-4900				
314	<i>Poa pagophila</i> Bor			4600-5200				
315	<i>Poa pratensis</i> L.			4100-4400				
316	<i>Poa supina</i> Schrad.			1950-3600				
317	<i>Saccharum officinarum</i> L.	Suagarcane	Ukhu	Upto 1400				
318	<i>Saccharum rufipilum</i> Steud.			3000-3500				
319	<i>Saccharum spontaneum</i> L.	Kans Grass	Kans	Upto 1700	LC			
320	<i>Setaria forbesiana</i> (Nees ex Steud.) Hook.f.		Kaune banso	1400-2000				
321	<i>Setaria plicata</i> (Lam.) T. Cooke			900-2000				
322	<i>Setaria pumila</i> (Poir.) Roem. & Schult.	Yellow Fox-Tail Grass		100-3600				
323	<i>Setaria viridis</i> (L.) P.Beauv.	Green Foxtail		2300-3800				
324	<i>Stipa sibirica</i> (L.) Lam.			3300-3600				
325	<i>Tenaxia cumminsii</i> (Hook.f.) N.P.Barker & H.P.Linder		Chichi	2200-4100				
326	<i>Thamnocalamus spathiflorus</i> (Trin.) Munro			2200-3200				
327	<i>Themeda arundinacea</i> (Roxb.) A.Camus	Ulla Grass	Pire	1200-1700				
328	<i>Themeda caudata</i> (Nees ex Hook. & Arn.) A.Camus		Piriya	700-2100				
329	<i>Themeda triandra</i> Forssk.	Red Grass/Root Grass		2000-3500				
330	<i>Thysanolaena latifolia</i> (Roxb. ex Hornem.) Honda	Broom Grass	Amriso, Mra	Upto 2000				
331	<i>Tripogon trifidus</i> Munro ex Stapf			1200-2100				
332	<i>Trisetum spicatum</i> (L.) K.Richt.	Spike Trisetum		3800-4600				
333	<i>Triticum aestivum</i> L.	Wheat	Gahoo	Upto 3600				
334	<i>Yushania maling</i> (Gamble) R.B.Majumdar & Karthik.		Malingo Nigalo	1800-3600				
335	<i>Zea mays</i> L.	Maize	Makai	Upto 3000				
Smilacaceae								
336	<i>Smilax aspera</i> L.	Common Smilax	Kukurdaino	1200-2600				

337	<i>Smilax elegans</i> Wall. ex Kunth	Elegant Smilax		1600-2450				
338	<i>Smilax ferox</i> Wall. ex Kunth			1100-2700				
339	<i>Smilax lanceifolia</i> Roxb.	Green bier		Upto1500				
340	<i>Smilax menispermoidea</i> A.DC.			1800-3400				
341	<i>Smilax orthoptera</i> A.DC.			1500-1800				
Zingiberaceae								
342	<i>Cautleya gracilis</i> (Sm.) Dandy	Slender shaped ginger		1200-3100				
343	<i>Cautleya spicata</i> (Sm.) Baker		Pani Saro	1800-2800				
345	<i>Curcuma angustifolia</i> Roxb.	East Indian Arrowroot	Kalo Haiedo	Upto2000				
346	<i>Hedychium coccineum</i> Buch.-Ham. ex Sm.	Orange Ginger Lily		uptp 1400				
347	<i>Hedychium densiflorum</i> Wall.	Hardy Ginger Lily		1800-2800				
348	<i>Hedychium ellipticum</i> Buch.-Ham. ex Sm.			3000-3100				
349	<i>Hedychium spicatum</i> Sm.	Spiked Ginger Lily	Pankha Phool,	1800-2800				
350	<i>Hedychium thyrsoforme</i> Sm.	Ginger Lily		Upto1500				
351	<i>Roscoea alpina</i> Royle	Mountain Roscoe Lily		2400-3100				
352	<i>Roscoea auriculata</i> K. Schum.	Roscoe's Lily White		3000				
353	<i>Roscoea capitata</i> Sm.			1200-2600				
354	<i>Roscoea nepalensis</i> Cowley			2440-3050				Endemic to Mustang
356	<i>Zingiber chrysanthum</i> Roscoe	Golden Flowered Ginger		4600				
GYMNOSPERM								
S.No.	Family / Scientific name	Common Name	Vernacular / Local names	Elevation	Conservation status	Endemism		
					IUCN	CITES	G o N	
Cupressaceae								
1	<i>Cupressus torulosa</i> D.Don	Himalayan Cypress	Dhoopi , Raj Sal	1800-3300	LC			
2	<i>Juniperus communis</i> L.	Common juniper	Doopi	1800-3600	LC			
3	<i>Juniperus indica</i> Bertol.		Doopi, Siuri	2800-4500	LC			
4	<i>Juniperus recurva</i> Buch.-Ham. ex D.Don	Coffin Juniper	Dhoopi	2500-4600	LC			
5	<i>Juniperus squamata</i> Buch.-Ham. ex D.Don	Himalayan Juniper	Dhoopi	3000-4500	LC			
Ephedraceae								
6	<i>Ephedra gerardiana</i> Wall. ex Stapf	Ephedra	Somlata	2400-5200				
7	<i>Ephedra intermedia</i> Schrenk & C.A.Mey.		Somlata	2700-4000				
Pinaceae								
8	<i>Abies pindrow</i> (Royle ex D.Don) Royle	West Himalayan Fir		2100-3600	LC			
9	<i>Abies spectabilis</i> (D.Don) Mirb.	Himalayan Silver Fir		2800-4400	NT		P	
10	<i>Picea smithiana</i> (Wall.) Boiss.	Himalayan Spruce	Jhule Salla	2100-3600	LC			
11	<i>Pinus roxburghii</i> Sarg.	Himalayan Blue Pine	Rani Sallo	500-2700	LC			

12	<i>Pinus wallichiana</i> A.B.Jacks.	Himalayan Blue Pine		1800-4300	LC			
13	<i>Tsuga dumosa</i> (D.Don) Eichler	Himalayan Hemlock	Thige Salla	2100-3600	LC			
Taxaceae								
14	<i>Taxus contorta</i> Griff.			2200-3400	EN	II		
15	<i>Taxus wallichiana</i> Zucc.	Himalayan Yew	Lauth Salla	2100-3400	EN	II	P	
Taxodiaceae								
16	<i>Cryptomeria japonica</i> (Thunb. ex L.f.) D.Don	Japanese Cedar	Dhoopi	Upto2000	EN			
PTERIDOPHYTES								
S.N	Family / Scientific name	Common Name	Vernacular name	Elevation	Conservation status	Endemism		
					IUCN	CITES	G o N	
Aspleniaceae								
1	<i>Asplenium bulbiferum</i> G. Forst.	Spleen Wort		2200-2700				
2	<i>Asplenium dalhousiae</i> Hook.			1000-3000				
3	<i>Asplenium ensiforme</i> Wall. ex Hook. & Grev.							
4	<i>Asplenium macrophyllum</i> Sw.			200-1200				
5	<i>Asplenium varians</i> Wall. ex Hook. & Grev.	Speen Wort		2000-3000				
6	<i>Asplenium yoshinagae</i> Makino	Spleen Wort		1200-2400				
Athyriaceae								
7	<i>Allantodia aspera</i> (Blume) Ching			1000-3000				
8	<i>Allantodia stoliczkae</i> (Bedd.) Ching		Kalo Nyuro	1000-3000				
9	<i>Arachniodes amabilis</i> (Blume) Tindale				Upto1500			
10	<i>Athyrium biserrulatum</i> Christ.							
11	<i>Athyrium nigripes</i> (Blume) T. Moore	Lady Fern		1300-3600				
12	<i>Athyrium pectinatum</i> (Wall. ex Mett.) T. Moore			1000-3000				
13	<i>Athyrium rupicola</i> (Hope) C. Chr.							
14	<i>Athyrium wallichianum</i> Ching							
15	<i>Deparia boryana</i> (Willd.) M. Kato			Kalo Nyuro	1400-2400			
16	<i>Diplazium esculentum</i> (Retz.) Sw.							
17	<i>Diplazium himalayense</i> (Ching) Panigrahi							
18	<i>Diplazium spinulosum</i> Bl.							
Blechnaceae								
19	<i>Woodwardia unigemmata</i> (Makino) Nakai	Chain Fern	Danthe Unyu	1300-2800				
Cyatheaceae								
20	<i>Cyathea gigantea</i> (Wall. ex Hook.) Holttum			2000-2500		II		
21	<i>Cyathea spinulosa</i> Wall. ex Hook.	Tree Fern	Chhatre Unyu	300-3000		II		
Cystopteridaceae								

22	<i>Cystopteris fragilis subsp. Kansuana</i> (C.Chr.) Fraser-Jenk.							
Davalliaceae								
23	<i>Araiostegia delavayi</i> (Bedd. ex C.B. Clarke & Baker) Ching			1200-3200				
Dennstaedtiaceae								
24	<i>Dennstaedtia appendiculata</i> (Wall. ex Hook.) J. Sm.	Ground Fern		1200-2800				
25	<i>Microlepia speluncae</i> (L.) T. Moore			800-3000				
26	<i>Pteridium revolutum</i> (Bl.) Nakai							
Dryopteridaceae								
27	<i>Cyrtomium anomophyllum</i> (Zenker) Fraser-Jenk.							
28	<i>Cyrtomium caryotideum</i> (Wall. ex Hook. & Grev.) C. Presl	Dwarf Holly Fern	Kalee Niuro	1400-2400				
29	<i>Dryopteris barbigera</i> (Hook.) O. Kuntze							
30	<i>Dryopteris chrysocoma</i> (Christ) C. Chr.			1800-3500				
31	<i>Dryopteris cochleata</i> (D. Don) C. Chr.		Nyuro, Pani	1500-2500				
32	<i>Dryopteris fructuosa</i> (Christ) C. Chr.							
33	<i>Dryopteris marginata</i> (C.B. Clarke) Christ			1200-2800				
34	<i>Dryopteris sparsa</i> (D. Don) Kuntze		Jire Niuro	400-2300				
35	<i>Dryopteris wallichiana</i> (Spreng.) Hyl.			1000-3000				
36	<i>Polystichum lentum</i> (D. Don) T. Moore	The Shield Fern		2100-3700				
37	<i>Polystichum mehrae</i> Fraser-Jenk. & Khullar							
38	<i>Polystichum neolobatum</i> Nakai							
39	<i>Polystichum nepalense</i> (Spreng.) C. Chr.			2400-3100				
40	<i>Polystichum obliquum</i> (D. Don) T. Moore			1500-3000				
41	<i>Polystichum oblongum</i> Ching ex W. M. Chu & Z. R. He							
42	<i>Polystichum shensiense</i> Christ							
43	<i>Polystichum squarrosom</i> (D. Don) Fée	Red Bearded Christmas Fern	Thulo Nyuro	1000-3000				
44	<i>Polystichum thomsonii</i> (Hook. f.) Bedd.			1500-3000				
45	<i>Polystichum woodsoides</i> Christ							
Equisetaceae								
46	<i>Equisetum arvense</i> L.	Common Horsetail	Aankhle Jhar	3000-3500				
47	<i>Equisetum diffusum</i> D. Don	Himalayan Horsetail	Kukure	1000-2800				
48	<i>Hippochaete debilis</i> (Roxb. ex Vaucher) Ching		Kukure/kukure	2000				
Gleicheniaceae								
49	<i>Dicranopteris linearis</i> (Burm. f.) Underw.			1000-3000				
50	<i>Gleichenia longissima</i> Blume	Con Fern	Hade Unau	1000-3000				
Hypodematiaceae								
51	<i>Leucostegia immersa</i> Wall. ex C. Presl		Chamsure Unyu	1100-3400				
Lindsaeaceae								
52	<i>Odontosoria chinensis</i> (L.) J.Sm.			250-2300				
Lycopodiaceae								

53	<i>Huperzia squarrosa</i> (G. Forst.) Trevis.			900-2200				
54	<i>Lycopodium clavatum</i> L.		Nagbeli	1300-3800				
55	<i>Palhinhaea cernua</i> (L.) Franco & Vasc.							
56	<i>Phlegmariurus phlegmaria</i> (L.) Holub	Coarse tassel fern						
57	<i>Phlegmariurus pulcherrimus</i> (Hook. & Grev.) Löve & Löv							
Lygodaceae								
58	<i>Lygodium japonicum</i> (Thunb.) Sw.		Janai Lahara	400-2200				
Marattiaceae								
59	<i>Angiopteris evecta</i> (G. Forst.) Hoffm.			??				
Nephrolepidaceae								
60	<i>Nephrolepis cordifolia</i> (L.) C. Presl	Tuber ladder fern	Pani Amala	300-2000				
Oleandraceae								
61	<i>Oleandra pilosa</i> Hook.			1200-2000				
62	<i>Oleandra wallichii</i> (Hook.) C. Presl			1200-3500				
Ophioglossaceae								
63	<i>Botrychium lunaria</i> (L.) Sw.	Common moonwort						
64	<i>Botrychium multifidum</i> (S.G. Gmel.) Rupr.	Grape Fern		1300-2800				
65	<i>Japanobotrychium lanuginosum</i> (Wall. ex Hook. & Grev.) M. N. ex Tagawa							
66	<i>Ophioglossum petiolatum</i> Hook.		Jibre Sag	1000-3000				
67	<i>Ophioglossum reticulatum</i> L.				LC			
Polypodiaceae								
68	<i>Arthromeris wallichiana</i> (Spreng.) Ching		Chhepare Unyu	1400-2700				
69	<i>Drynaria mollis</i> Bedd.			1500-3000				
70	<i>Drynaria propinqua</i> (Wall. ex Mett.) Bedd.	Oak Leaf Fern		800-3500				
71	<i>Lepisorus clathratus</i> (C. B. Cl.) Ching							
72	<i>Lepisorus loriformis</i> (Wall. ex Mett.) Ching		Rukh Unyu	1300-3400				
73	<i>Lepisorus mehrae</i> Fraser-Jenkins							
74	<i>Lepisorus nudus</i> (Hooker) Ching							
75	<i>Lepisorus thunbergianus</i> (Kaulf.) Ching							
76	<i>Loxogramme involuta</i> (D. Don) C. Presl			900-3100				
77	<i>Microsorium membranaceum</i> (D. Don) Ching			300-2700				
78	<i>Neolepisorus ovatus</i> Ching		Gephe Unyu	1200-2800				
79	<i>Phymatosorus cuspidatus</i> (D. Don) Pic. Serm.			300-1900				
80	<i>Pichisermollodes malacodon</i> (Hook.) Fraser-Jenk.							
81	<i>Pichisermollodes quasidivaticata</i> (Hayata) Fraser-Jenk.							
82	<i>Polypodiastrium argutum</i> (Wall. ex Hook.) Ching	Polypody		1000-3600				
83	<i>Polypodiodes amoena</i> (Wall. ex Mett.) Ching	Polypody		400-2700				
84	<i>Polypodiodes lachnopus</i> (Wall. ex Hook.) Ching			1500-3500				

85	<i>Pyrrosia costata</i> (Wall. ex C.Presl) Tagawa & K.Iwats.			2000-3500				
86	<i>Pyrrosia flocculosa</i> (D.Don) Ching							
87	<i>Pyrrosia porosa</i> (C. Presl) Hovenk.							
Pteridaceae								
88	<i>Adiantum capillus-veneris</i> L.	Maidenhair Fern	Kane Sinka	300-2200	LC			
89	<i>Adiantum lunulatum</i> Burm. f.			500-2200				
90	<i>Adiantum tibeticum</i> Ching & Y.X.Lin							
91	<i>Adiantum venustum</i> D. Don			500-2200				
92	<i>Aleuritopteris albomarginata</i> (C. B. Cl.) Ching			2600				
93	<i>Aleuritopteris anceps</i> (Blanf.) Panigr.							
94	<i>Cheilanthes rufa</i> D. Don			1000-3500				
95	<i>Coniogramme affinis</i> (Wall. ex C. Presl) Hieron.							
96	<i>Coniogramme intermedia</i> Hieron.			2200-2800				
97	<i>Cryptogramma brunoniana</i> Wall. ex Hook. & Grev.							
98	<i>Cryptogramma crispa</i> (L.) R. Br. ex Hook.	Golden Fern		3200-4000				
99	<i>Cryptogramma stelleri</i> (Gmel.) Prantl							
100	<i>Haplopteris mediosora</i> (Hayata) X. C. Zhang							
101	<i>Haplopteris taeniophylla</i> (Copel.) E. H. Crane							
102	<i>Hemionitis marantae</i> (L.) Christenh.							
103	<i>Onychium japonicum</i> (Thunb.) Kunze	Japanese Claw Fern		400-3000				
104	<i>Onychium siliculosum</i> (Desv.) C. Chr.			1200-1900				
105	<i>Onychium cryptogrammoides</i> Christ			1500-200				
106	<i>Paragymnopteris borealisinensis</i> (Kitag.)							
107	<i>Pityrogramma calomelanos</i> (L.) Link	Silver Fern		1200-1000				
108	<i>Pteris aspericaulis</i> Wall. ex Ag.			1300-2000				
109	<i>Pteris biaurita</i> L.	Silver Brake Fern		1200-3200				
110	<i>Pteris cretica</i> L.	Ribbon Fern		100-3500				
111	<i>Pteris dactylina</i> Hook.							
112	<i>Pteris vittata</i> L.	Chinese Brake		1500-2000	LC			
113	<i>Pteris wallichiana</i> J. Agardh	Brake Fern	Tinkhutte Sottar	800-2800				
Selaginellaceae								
114	<i>Selaginella chrysocaulos</i> (Hook. & Grev.) Spring.			1800-3000				
115	<i>Selaginella involvens</i> (Sw.) Spring							
Tectariaceae								
116	<i>Tectaria coadunata</i> (J. Smith) C. Christensen			200-2500				
Thelypteridaceae								
117	<i>Thelypteris erubescens</i> (Wall. ex Hook.) Ching			1200-3200				
118	<i>Thelypteris multilineata</i> (Wall. ex Hook.) C.V. Morton		Koche	200-2100				

Annex 18: Budget Summary (In Thousands)

Theme	Outcome	Narration	Total	Year (Budget in Thousand)					Percent
				1	2	3	4	5	
1	Outcome 01	Species Conservation	178,400	13,020	62,460	62,460	12,950	12,510	6.11%
2	Outcome 02	Protected Area and Ecosystem Management	165,782	27,318	58,096	39,027	22,819	18,523	5.68%
3	Outcome 03	Promote Conservation Economy	170,874	44,182	53,569	32,878	20,946	19,300	5.85%
	Outcome 04		969,070	312,873	348,016	146,008	89,957	72,216	33.18%
	Outcome 05		140,176	20,625	67,525	24,378	16,324	11,324	4.80%
4	Outcome 06	Climate Action	279,750	65,450	54,000	53,500	53,400	53,400	9.58%

5	Outcome 07	Research, Education, and Knowledge Management	106,650	21,290	50,300	27,020	4,020	4,020	3.65%
	Outcome 08		83,369	29,746	20,640	13,528	10,597	8,858	2.85%
6	Outcome 09	Gender Equality and Social Inclusion	41920	14154.5	8904.5	7489.5	7028.5	4343	1.44%
7	Outcome 10	Governance	391,982	99,116	112,527	83,281	61,708	35,351	13.42%
	Outcome 11		273,997	56,556	57,279	54,531	52,961	52,671	9.38%
8	Outcome 12	Health and Sanitation	118,280	41,445	49,565	10,965	8,155	8,150	4.05%
Grand Total			2920250.16	745774.50	942881.00	555065.00	360864.50	300665.50	100.00%

Annex 19: Budget of the ACA Management Plan for Next Five Years

Theme	No.	Title	Unit	Target	Rate	Total	Year (Budget in Thousand)					Total
							1	2	3	4	5	
Theme	1	Species Conservation										
Outcome	1	Conserve species through maintained viable population, addressed challenges to species protection, and enhanced community tolerance to human-wildlife conflicts										
Output	1.1	Maintain viable population of wildlife										
Activities	1.1.1	2 species-specific conservation plans developed	Plan	2	7500	15000	-	7500	-	7500	-	15000
	1.1.2	5 species regularly monitored and ecological research conducted	Study	5	500	2500	500	500	500	500	500	2500
	1.1.3	100 ha of pastureland managed and maintained		10	500	5000	1000	1000	1000	1000	1000	5000
	1.1.4	20 water holes constructed	Site	21	300	6300	1260	1260	1260	1260	1260	6300
		sub-Total			8800	28800	2760	2760	2760	2760	2760	28800
Output	1.2	Address the challenges to protect species										
Activities	1.2.1	Capacity building of at least 300 individuals trained out of which at least one-third women and excluded group.	Event	7	250	1750	440	440	440	430	-	1750
	1.2.2	Rescue and rehabilitation of more than 200 wild animals	UCO	7	100	700	140	140	140	140	140	700
	1.2.3	To combat wildlife crime, at least one wildlife Rescue and Rehabilitation Center established		1	100000	100000	-	50000	50000	-	-	100000

	1.2.4	At least 150 staff from law enforcement agencies capacitated on wildlife parts identification.	Event	7	250	1750	-	440	440	440	430	1750
	1.2.5	At least 30 predator proof corrals constructed.	Number	2	500	1000	500	-	-	-	500	1000
		sub-Total			101100	105200	1080	51020	51020	1010	1070	105200
Output	1.3	Enhance Human-wildlife Co-existence										
Activities	1.3.1	At least 2 innovative initiatives with appropriate technological interventions initiated.	Event	2	500	1000	500	--	--	500	--	1000
	1.3.2	35% reduction in livestock depredation and crop damage due to wildlife		7	250	1750	350	350	350	350	350	1750
	1.3.3	More than 500 HH engaged in income generation	Event	7	250	1750	350	350	350	350	350	1750
	1.3.4	At least 3000 livestock insured	Event	7	3500	24500	4900	4900	4900	4900	4900	24500
	1.3.5	At least 50% of wildlife victims' families supported for livelihood	Event	7	2000	14000	2800	2800	2800	2800	2800	14000
	1.3.6	Sustainably balance and optimize the health of people, animals, and ecosystems (One Health)	Event	7	200	1400	280	280	280	280	280	1400
		sub-Total			6700	44400	9180	8680	8680	9180	8680	44400
		THEME TOTAL (1)			116600	178400	13020	62460	62460	12950	12510	178400

Theme	No.	Title	Unit	Target	Rate	Total	Year (Budget in Thousand)					Total
							1	2	3	4	5	
Theme	2	Protected Area and Ecosystem Management										
Outcome	2	Biodiversity is conserved, ecosystem services and processes enhanced, and natural resources are managed following conservation principles in ACA										
Output	2.1	Conservation plans prepared for the critical biodiversity habitats & ecosystems										
Activities	2.1.1	Conduct detail survey of the flora and fauna in areas not surveyed earlier and update biodiversity baseline data following zonation concept in each UCO	Survey	1	600	600	600	-	-	-	-	600
	2.1.2	Map key biodiversity areas, habitat and ecosystems as envisaged in NRM-based zonation	Map	7	300	2100	2,100	-	-	-	-	2100
	2.1.3	Develop & implement critical habitat management plan of one key wildlife habitat specific to NRM zone										
		Plan	Plan	4	1000	4000	800	3,200	-	-	-	4000
		Implementation of the plans	Plan	4	7500	30000	3,000	12,000	10,500	3,000	1,500	30000
	2.1.4	Maintain the biodiversity register of indigenous communities in each CCs										

		Review the register of 5 UCOs	Review	53	25	1325	530	663	66	66	-	1325
		Prepare register for Ghandruk & Lwang	Register	2	75	150	120	15	10	5	-	150
		Sub total				38,175	7,150	15,878	10,576	3,071	1,500	38175
Output	2.2	documentation of wetlands in place, recognized for the Ramsar enlistment and promoted for sustainable conservation and wise use										
Activities	2.2.1	Conduct scientific inventory of wetlands and prepare wetlands map ACA	Inventory	1	3500	3500	175	3,325	-	-	-	3500
	2.2.2	Explore wetlands that has potential for the Ramsar nomination, and assist government to contribute to meet the national target by one wetland from ACA in the Ramsar site	Event	1	2000	2000	-	2,000	-	-	-	2000
	2.2.3	Build capacity of CAMC for Integrated Wetlands Basin Management, preparation & implementation of integrated plan to promote 1 wetland for conservation & ecotourism	Lumpsum	1	17000	17000	-	8,500	5,100	1,700	1,700	17000
		Sub total				22,500	175	13,825	5,100	1,700	1,700	22500
Output	2.3	Two key sites for species are conserved										
Activities	2.3.1	Develop and implement Conservation Management Plan of 2 key wildlife species considering state of endemic plants concentrated at altitudinal range of 3600 to 3700m	Plan/implement	2	14500	29000	2,900	7,250	8,700	5,800	4,350	29000
	2.3.2	Publish and distribute 'Do' and 'Do Not' about flora and fauna at strategic places	Places	50	20	1000	200	200	200	200	200	1000
		Sub total				30,000	3,100	7,450	8,900	6,000	4,550	30000
Output	2.4	Community innovation of longer-term relief mechanism in practices to reduce human-wildlife conflict										
Activities	2.4.1	Continue support to the communities for reducing human-wildlife conflict through meeting and dialogue	Event	14	10	140	28	28	28	28	28	140
	2.4.2	Continue support to communities' scheme to construct/maintain predator proof corrals, animal barrier like mounds, trenches, and hedges around farmlands	Site	19	57	1083	541.5	541.5	-	-	-	1083
	2.4.3	Piloting for one Wildlife Health & Conservation Clinic (WHCC), wildlife orphanages and rescue services	Clinic	1	10000	10000	-	7,000	2,000	500	500	10000

	2.4.5	Review existing community patrolling to control illicit hunting/poaching of wildlife and support them to consolidate patrolling scheme with many Nepal's learning from other protected areas from the Terai	Review	1	700	700	700	-	-	-	-	700
	2.4.6	Provide the cost under cost sharing arrangements to control illegal collection, poaching and trafficking of forests products and wildlife (support for patrolling & forest guard)										
		Patrolling (Ghandruk, Sikles, Lwang, Bhujung & Jomsom)	Event	40	15	600	120	120	120	120	120	600
		Forest/rangeland/kharka patrolling (Lomanthang)	Event	20	15	300	60	60	60	60	60	300
		Forest guard (Ghandruk, Sikles, Lwang, Bhujung, Jomsom & Lomanthang)		360	5	1800	360	360	360	360	360	1800
	2.4.7	Mobilize youth for wildlife conservation										
		Mobilize youth in Ghandruk, Sikles, Lwang, Jomsom & Lomanthang	Event	116	20	2320	464	464	464	464	464	2320
		Support to youth club (Bhujung & Manang)	Club	9	25	225	45	45	45	45	45	225
	2.4.8	Extend the coverage of livestock insurance scheme that piloted earlier in ACA to provide relief against wildlife depredation	Piloting	1	7500	7500	1,125	2,250	2,250	1,500	375	7500
		Relief support in Ghandruk, Jomsom & Lo-Manthang	CAMCs	22	275	6050	1,210	1,210	1,210	1,210	1,210	6050
	2.4.9	Device the long term 'Community Operation of Relief Scheme for Wildlife Depredation' through community cooperative mechanism, and adopt the relief practices	CAMCs	35	300	10500	2,100	2,100	2,100	2,100	2,100	10500
		Sub total				41218	6754	14179	8637	6387	5262	41218
Output	2.5	Participatory mechanism to minimize impacts of AIS for restoring ecosystems/habitats in place										
Activities	2.5.1	Assess magnitude and threats from the alien plant species, and prepare distribution and key areas map for the management of alien plant species in ACA	Map	7	150	1050	210	210	210	210	210	1050

	2.5.2	Innovate mechanism to control impact of AIS in collaboration with local government and local stakeholders	Lumpsum	7	500	3500	3,500	-	-	-	-	3500
	2.5.3	Aware communities to safeguard agro and forests ecosystems from the impacts of alien plant species	Event	14	50	700	140	140	140	140	140	700
		Sub total				5,250	3,850	350	350	350	350	5250
Output	2.6	Community has xxx ha of forests in public, waste & barren land under the scientific management										
Activities	2.6.1	Review existing practice of forestry for the scientific management	Review	1	75	75	75	-	-	-	-	75
	2.6.2	Assist sub-committee to prepare & implement Operation Plan	OP	57	50	2850	570	570	570	570	570	2850
	2.6.3	Design, promote and implement at least one participatory forestry program in 2 UCOS in public, waste, and community owned barren land	Site	2	1500	3000	900	1,200	450	300	150	3000
	2.6.4	Continue providing materials support to sub-committee for the forest management										
		Barb wire fencing (Ghandruk & Jomsom)	Site	27	280	7560	1,512	1,512	1,512	1,512	1,512	7560
		Fencing wall (Bhujung)	Site	17	107	1819	365	365	365	362	362	1819
		Nursery management (Ghandruk, Bhujung & Manang)	Site	36	210	7560	1,512	1,512	1,512	1,512	1,512	7560
		Wall fencing in agricultural land (Jomsom)	Site	1	100	100	100	-	-	-	-	100
		Wall fencing Plantation area (Jomsom)	Site	2	200	400	200	200	-	-	-	400
	2.6.5	Support sub-committee to observe major wildlife and global environmental events	Event	175	20	3500	700	700	700	700	700	3500
		Sub total				26,864	5,934	6,059	5,109	4,956	4,806	26864
Output	2.7	xxx number of groups/communities are prepared for the management of forest fire										
Activities	2.7.1	Aware communities to encourage for the conventional management of forest fire	Event	285	5	1425	285	285	285	285	285	1425
	2.7.2	Provide material support to the committee/sub-committee for extinguishing forest fire	Lumpsum	7	50	350	70	70	70	70	70	350
		Sub total				1,775	355	355	355	355	355	1775
Output	2.8	Income of xxx numbers of groups and HHs increased by xxx% from the wise use of natural resources										
	Activities	Budget allocation of this output is under Theme Conservation Economy 3.1, 3.2										
		Sub total				-	-	-	-	-	-	-

Output	2.9	One assessment study conducted for the game/trophy hunting of selected species of wildlife											
Activities		Budget allocation of this output is under Theme Research, Education & Knowledge management 7.2											
		Sub total				-	-	-	-	-	-	-	-
Output	2.10	Capacity of xxx number of institution/communities built up for the scientific management of forests, habitats, and biodiversity in ACA											
Activities		Budget allocation of this output is under Governance (10.2, 10.12)											
		Sub total				-	-	-	-	-	-	-	-
		THEME Total (2)				165,782	27,318	58,096	39,027	22,819	18,523	165,782	

Theme	No.	Title	Unit	Target	Rate	Total	Year (Budget in Thousand)					Total
							1	2	3	4	5	
Theme	3	Conservation Economy										
Outcome	3	Opportunities for higher conservation benefits explored and local economy of people enhanced in ACA from ecotourism and green enterprises										
Output	3.1	Strategies & mechanism for enhanced local economy from the sustainable harvest of environmental resources is in place										
Activities	3.1.1	Develop consensus for the engagement of private sector in the wise use of NR, biodiversity, hydropower, and mining by integrating PES in all conservation businesses	Meeting	10	25	250	50	88	50	25	37	250
	3.1.2	Conduct assessment study to explore thresholds of the major harvestable NRs, minerals, and mine	Study	1	3000	3000	3,000	-	-	-	-	3000
	3.1.3	Assist CAMCs for the preparation of the Sustainable Harvest Business Plan (SHBP) of NRs, minerals, and mine and to obtain approval of the plan, and implementation of the SHBP	Plan	4	1000	4000	2,000	2,000	-	-	-	4000

	3.1.4	Support for the protection of gravel and stone mining in Ghandruk	Site	1	200	200	100	100	-	-	-	200
	3.1.5	Safeguard Uranium site for future use	Lumpsum	5	500	2500	500	500	500	500	500	2500
	3.1.6	Review status of salt mine and explore opportunities for the commercial extraction	Study	1	1000	1000	-	1,000	-	-	-	1000
		Sub total				10,950	5,650	3,688	550	525	537	10,950
Output	3.2	Income of entrepreneurs is enhanced from promotion of green enterprises										
Activities	3.2.1	Devise mechanism for the sustainable production and marketing of cash crops (apple, cardamom, tea and coffee) from the joint investment of private sector and integration of PES	Meeting	20	20	400	120	120	80	40	40	400
	3.2.2	Prepare Commercial Plan of one cash crop in UCO, obtain approval, and implement plan	Plan	4	2000	8000	8,000	-	-	-	-	8,000
	3.2.3	Facilitate the process of leasing government land to extend coverage of commercial cash crops	Site	4	100	400	160	160	40	20	20	400
	3.2.4	Provide support to farmers (technical & financial) for the value addition, production & marketing of cash crop products	Lumpsum	4	7000	28000	-	14,000	11,200	1,400	1,400	28,000
	3.2.5	Support communities to implement NTFP Sustainable Harvest Plan of ACA (2017) with at least 1 medium scale community operated NTFP enterprise	NTFP Plant	1	8000	8000	800	4,800	1,600	800	-	8,000
		Essential oil processing plant in Lwang	Unit	1	600	600	60	480	30	15	15	600
		Establishment of tea nursery in Ghandruk	Nursery	15	100	1500	600	600	300	-	-	1,500
		Provide support for cold storage in Ghandruk		1	200	200	200	-	-	-	-	200
		Establishment of lokta refinery in Bhujung		1	1000	1000	20	700	100	90	90	1,000
		Sub total				48,100	9,960	20,860	13,350	2,365	1,565	48,100
Output	3.3	Economy of small conservation farmers is improved from the conservation of farmland										

Activities	3.3.1	Provide materials support to small farmers for the protection of farmland	Lumpsum	7	400	2800	840	1,120	280	280	280	2,800
		Wall construction in Lomanthang & Manang	Site	6	1350	8100	2,430	3,240	810	810	810	8,100
		Compound wall in Bhujung, Ghandruk, Lwang, Manang and sikles	Site	14	200	2800	840	1,120	280	280	280	2,800
	3.3.2	Provide support to the small farmers for technology inputs in vegetable farming and materials and equipment for farmland productivity	Lumpsum	7	1000	7000	1,400	1,400	1,400	1,400	1,400	7,000
		Green house support in Ghandruk	Event	1	20	20	20	-	-	-	-	20
		Silpolin distribution in Bhujung, Ghandruk, Lomanthang, Lwang & Manang	HH	4330	0.5	2165	1,083	866	108	108	-	2,165
		Tunnel farming in Ghandruk	Event	17	92	1564	315	315	312	312	310	1,564
		Conservation famer support in Bhujung	Group	12	51	612	184	245	61	61	61	612
		Seed distribution (cerel crops) in Lwang	HH	30	5.5	165	33	33	33	33	33	165
		Vegetable seed distribution in Ghandruk & Lwang	HH	2161	0.11	238	50	48	48	46	46	238
		Vegetable nursery support in Ghandruk	Site	33	19	627	125	125	125	126	126	627
		Crop seed distribution in Lwang & Manang	HH	133	72	9576	1,915	1,915	1,915	1,915	1,916	9,576
		Seed distribution (cerel crops) in Bhujung	HH	4331	0.5	2166	433	433	433	433	434	2,166
		Off seasonal vegetable farming and material support in Ghandruk & Lwang	HH	30	28	840	168	168	168	168	168	840
		IGA in Ghandruk & Jomsom	HH	100	30	3000	600	900	900	300	300	3,000
		Asperagus & Mushroom in Ghandruk & Lwang		5	30	150	75	75	-	-	-	150
		Orange in Ghandruk	Lumpsum	5	150	750	75	370	225	40	40	750
		Income Generation Activities including disadvantage groups/Dalits in Ghandruk and Jomsom	HH	986	1.7	1676	335	335	335	335	336	1,676
		Cash crop farming and extension in Bhujung	HH	11816	1.2	14179	2,836	2,836	2,836	2,836	2,835	14,179
		Conservation famer support in Ghandruk, Manang, Sikles	HH	157	15	2355	471	471	471	471	471	2,355

	3.3.3	Plantation of at least 10 fodder saplings by each beneficiary HHs of conservation farmers	HH	1500	0.2	300	60	60	60	60	60	300
		Sub total				61,083	14,288	16,075	10,800	10,014	9,906	61,083
Output	3.4	Economy of small conservation farmers is improved from plan-based livestock management and practices										
Activities	3.4.1	Strengthen capacities of farmers to prepare and implement the Rangeland Management Plan in Manang	Plan	1	500	500	500	-	-	-	-	500
		Implementation of plan	Site	3	900	2700	540	540	540	540	540	2,700
		Support for rangeland management in Ghandruk and Lwang	Site	2	500	1000	200	200	200	200	200	1,000
		Support conservation farmers for livestock productivity and others	Lumps um	7	1000	7000	1,400	1,400	1,400	1,400	1,400	7,000
		Bee keeping support in Bhujung, Ghandruk, Lwang	HH	20	109	2180	1,090	1,090	-	-	-	2,180
		Cattle farming support in Lwang	HH	40	2	80	40	40	-	-	-	80
		Goat farming support in Bhujung, Ghandruk, Sikles	HH	224	10	2240	448	560	560	672	-	2,240
	3.4.2	Continue support to farmers for gene improvement and for livestock health/ vaccination scheme to enhance livestock productivity	Lumps um	7	500	3500	700	700	700	700	700	3,500
		Improved livestock and breeding bull support in Ghandruk and Manang	Site	15	77	1155	460	575	60	60	-	1,155
		Gene improvement program support Ghandruk and Lwang	HH	426	0.8	341	135	170	18	18	-	341
		Livestock medication program in Bhujung	Event	8	50	400	80	80	80	80	80	400
		Livestock nutrition program in Bhujung	Event	8	25	200	40	40	40	40	40	200
		Health camp in Ghandruk	Event	24	43	1032	205	205	206	208	208	1,032
		Health post support in Ghandruk	Event	1	200	200	40	40	40	40	40	200
		Livestock health and vaccination in Sikles	Event	6	35	210	42	42	42	42	42	210
		Medicine for livestock in Lo-Manthang	Event	35	14	490	98	98	98	98	98	490
		Mobile health camp in Ghandruk,	Event	28	75	2100	420	420	420	420	420	2,100

		Lomanthang, Manang										
		Veterinary technician support in Bhujung, Sikles	Event	42	27	1134	225	225	228	228	228	1,134
	3.4.3	Support small and resource poor farmers for improvement of livestock sheds	Lumps um	7	300	2100	420	420	420	420	420	2,100
		Goat shed (Jomsom)	Shed	10	50	500	250	250	-	-	-	500
		Livestock shed (Ghandruk, Lwang & Bhujung)}	Shed	47	50	2350	1,175	1,175	-	-	-	2,350
		Yak shed (Manang)	Shed	2	50	100	50	50	-	-	-	100
	3.4.4	Plantation of 20 fodder sapling to each beneficiary HHs to plant and nurture these to maturity	HH	700	0.4	280	56	56	56	56	56	280
		Sub total				31,792	8,614	8,376	5,108	5,222	4,472	31,792
Output	3.5	Livelihoods of landless/socially deprived communities is improved from their increased participation in conservation actions										
Activities	3.5.1	Explore ways and means to consolidate interests of landless and deprived communities and mainstream their actions in conservation actions	Meetin g	5	10	50	50	-	-	-	-	50
	3.5.2	Strengthen capacities of landless & deprived communities to constitute their groups (2) in each UCO and to prepare their plans based on Micro-Enterprise-Creation (MEC) activities	Event	10	30	300	300	-	-	-	-	300
	3.5.3	Provide support to groups to implement MEC plan (14 plans) with effective monitoring scheme	Plan	1	700	700	700	-	-	-	-	700
		Implementation of Plan	Groups	14	900	12600	2,520	2,520	2,520	2,520	2,520	12,600
		Monitor the progress regularly	Times	10	20	200	40	40	40	40	40	200
		Sub total				13,850	3,610	2,560	2,560	2,560	2,560	13,850
Output	3.6	Community managed plan-based modern bakery production on unit is in operation for quality products consumable to the foreign visitors										
Activities	3.6.1	Assist tourism committee for the assessment of existing bakery enterprises in view of upgrading the quality of bakery items and extension of market for these products	Lumps um	5	10	50	10	10	10	10	10	50

	3.6.2	Assist committee to prepare business plan for the bakery production/marketing based on the assessment study and implementation of plan	Plan	1	50	50	50	-	-	-	-	50
		Support committee with materials and technology for bakery factory	Unit	2	2500	5000	2,000	2,000	500	250	250	5,000
		Sub total				5,100	2,060	2,010	510	260	260	5,100
Output	3.7	xxx number of HHs/committees are supported to implement LAPA to overcome stresses due to climate change										
Activities	3.7.1	Budget allocation is under Climate Actions 6.1-6.3										
		Sub total				-	-	-	-	-	-	-
Output	3.8	Capacity of communities is built up for different green & ecotourism businesses for the socio-ecological prosperity in ACA										
Activities	3.8.1	Budget allocation is under Capacity Building 10.7.1-10.7.9										
		Sub total				-	-	-	-	-	-	-
		Total (3)				170,874	44,182	53,569	32,878	20,946	19,300	170,874
Outcome	4	Infrastructure for community development & promotion of ecotourism is supported for enhanced ecotourism to contribute to socio-ecological prosperity										
Output	4.1	Plan based intervention for ecotourism with linkage to PES										
Activities	4.1.1	Explore and identify sector wise and periodical priority areas of ecotourism based on strength and opportunities of UCOs	Event	2	75	150	150	-	-	-	-	150
	4.1.2	Support tourism committee in UCO to prepare Integrated Ecotourism Plan and implement plan-based intervention based on strength and opportunities of UCO	Lump sum	7	25000	175000	35000	52500	35000	35000	17500	175000
	4.1.3	Encourage tourism operators to use local products and services in their service menu	Event	5	70	350	70	70	70	70	70	350
		Sub total				175500	35220	52570	35070	35070	17570	175500
Output	4.2	Alternative opportunities are explored to increase number of stay periods of native/non-native visitors in ACA										
Activities	4.2.1	Development of functional linkage among government, private sector, and corporate stakeholders like Nepal Tourism Board, TAAN, HAN, NATTA etc.	Event	20	40	800	160	160	160	160	160	800
	4.2.2	Prepare joint market plan in coherence with	Event	2	50	100	80	-	-	20	-	100

		Integrated Tourism Plan for the new tourism product/services with stakeholders										
	4.2.3	Conduct promotional activities including diverse ecotourism package for foreign tourists	Package	5	150	750	750	-	-	-	-	750
	4.2.4	Conduct research to open new alternative trekking routes like Pairothapla-Muktinath Route, Sikles-Timang Route, Tangting Bhujung-Besishahar Route, Bhujung-Dudhpokhari Route etc.to equate the declining stay length of visitors due to road networks Budget allocation of this activity is under Theme Research, Education & Knowledge management (7.3)	Research	1	2500	2500	2500	-	-	-	-	2500
		Tourism awareness camp in Bhunung and Jomsom	Event	29	50	1450	290	290	290	290	290	1450
		Alternative route from Lwang to Jomsom	Site	17	300	5100	-	4080	510	255	255	5100
	4.2.5	Diversify at least One Product One Service (OPOS) item in each UCO. Refer key activities of this action under TTheme Research, Education & Knowledge management (7.3)	Lumps um	7	1500	10500	2100	2100	2100	2100	2100	10500
	4.2.6	Develop and implement package for the domestic & Indian pilgrimage to Mukthinath & Damodar Kunda	Lumps um	1	8000	8000	1600	1600	1600	1600	1600	8000
		Sub total				29200	7480	8230	4660	4425	4405	29200
Output	4.3	Infrastructure in new alternative trekking trail is developed for promotion ecotourism										
Activities	4.3.1	Coordinate government, private and corporate sectors for the synergy in developing development infrastructures in new alternative trekking trails	Meetin g	10	30	300	90	90	30	60	30	300
	4.3.2	Facilitate tourism committee to bring new alternative trekking route in full operation (Sikles ecotrek, Mardi trek, Khayar Baraha trek, Tilicho Tal trek, Upper Mustang trek, Nar Phu trek, Ghanduk	Lumps um	7	7000	49000	-	34300	12250	1225	1225	49000

		Ghorepani circuit trek, ABC/Century trek) with quality facilities and services including the placement of signage, drinking water, campsites, disposal site, security post, bridges, rescue facilities etc										
		Camp site repair, construction and camping building maintenance in Bhujung, Jomsom, Manang & Sikles	Site	5	150	750	225	375	75	40	35	750
		Community campsite/Tower construction in Sikles	Site	2	65	130	26	26	26	26	26	130
		Ecopark establishment and maintenance in Jomsom and Lwang	Site	2	6000	12000	2400	2400	2400	2400	2400	12000
		Incinerator installation and management in Bhujung, Ghandruk, Jomsom, Lwang and Manang	Site	62	55	3410	682	682	682	682	682	3410
		View point and ecopark in Jomsom	Site	1	500	500	100	100	100	100	100	500
		View tower construction in Bhujung, Ghandruk and Jomsom	Site	6	500	3000	600	600	600	600	600	3000
		Museum construction and maintenance in Ghandruk and Jomsom	Site	4	700	2800	560	560	560	560	560	2800
		Recreational Park establish and maintain in Lwang	Site	1	500	500	100	100	100	100	100	500
		Patti construction and maintenance in Jomsom	Site	1	300	300	60	60	60	60	60	300
	4.3.3	Introduce codes for the operation of teashops, rest places and hotels/lodges for standard services in the new trekking routes	Code	1	300	300	300	-	-	-	-	300
	4.3.4	Improve trail for horse-ride	Lumpsum	16	105	1680	336	336	336	336	336	1680
	4.3.5	Promote trekking trail with some ethnic brands like the Gurung heritage trail at the Ghalegaun-Bhujung-Pasgaun route with focus to Kohla So Thar (1st settlement of Gurung)	Lumps um	2	7000	14000	1400	9800	1400	700	700	14000
		Sub total				88670	6879	49429	18619	6889	6854	88670
Output	4.4	Maintenance of old infrastructure enhanced marketing of local niche products										
Activities	4.4.1	Provide direct support to the communities to	Lumps	7	1000	7000	1400	1400	1400	1400	1400	7000

		renovate/maintain old infrastructure for community and ecotourism development	um									
	4.4.2	Build skilled human resource for the repair/maintenance of structures and utilities Budget allocation in 10.5										
		Sub total				7000	1400	1400	1400	1400	1400	7000
Output	4.5	Structures & facilities for ecotourism information, interpretation and dissemination are improved										
Activities	4.5.1	Upgrade visitor information center in UCOS with auditorium facilities, and continue audiovisual show to the visitors	Hall	7	5000	35000	12950	12950	7000	1050	1050	35000
		Information center construction, update and maintenance (Ghandruk, Manang & Sikles)	Site	7	200	1400	518	518	280	42	42	1400
		Building construction and maintenance (Bhujung & Manang)	Site	7	400	2800	1036	1036	560	84	84	2800
	4.5.2	Support tourism committee for adequate signage and location board with information about unique features & services about specific destination at different places	Board	50	22	1100	407	407	220	33	33	1100
		Sign posting/painting/repainting (Lomanthang, Lwang, Manang and Sikles)	Sign	58	22	1276	470	470	255	41	40	1276
	4.5.3	Explore ways and means to increase the flow of more visitors from the global communities										
		Tourism promotion officer		65	60	3900	780	780	780	780	780	3900
		Prepare annual plan for global dissemination	Plan	1	10	10	10	-	-	-	-	10
		Website for global audience	Web/yr	5	50	250	50	50	50	50	50	250
		Dissemination clip in international media	Time	5	200	1000	200	200	200	200	200	1000
		Publicity of tourism product at local level in Lo-Manthang	Site	7	200	1400	280	280	280	280	280	1400
		Promotional events (Mahotsab) organization in Bhujung	Site	7	70	490	98	98	98	98	98	490
		Brochure & booklets preparation, publication, and dissemination (Bhujung, Jomsom & Sikles)		3	75	225	90	135	-	-	-	225
		Website operation in Sikles	Web/yr	5	30	150	30	30	30	30	30	150
		Tourism promotion documentary in Manang and Sikles	Docim ent	2	600	1200	1200	-	-	-	-	1200

		Sub total				50201	18119	16954	9753	2688	2687	50201
Output	4.6	Number of hotel/lodges/rest houses is increased with set facilities & services										
Activities	4.6.1	Facilitate tourism committee to let hotel/lodges operators increasing accommodation facilities in view of increasing number of visitors	Meetin g	10	50	500	100	100	100	100	100	500
	4.6.2	Strengthen capacities of tourism committee to review codes for hotel/lodge building with the strict use of monitoring practices	Code	1	300	300	300	-	-	-	-	300
	4.6.3	Facilitate tourism committee for leasing government land to increase the numbers of hotels/lodges at the places where private land is difficult to access such as Thorang La, Deurali, Bambo, Annapurna Base Camp with special consideration to breach monopoly and carteling on price & services	Meetin g + leasing	5	100	500	250	100	100	50	-	500
	4.6.4	Provide support to the communities with equipment & materials to organize accommodation facilities/services in promoting homestay services at Yanja kot, Taprang, Tagting (Sikles) and Saimarang of Sikles, Kavre, Kharpani, Mishra of Lwang and Bhujung, Pach Gaun, Ghan Pokhara, Khudi, Simpani of Bhujung etc	HH	50	300	15000	1500	6000	6000	750	750	15000
		Home stay support in Ghandruk & Lo-Manthang	HH	11	150	1650	165	660	660	85	80	1650
		Sub total				17950	2315	6860	6860	985	930	17950
Output	4.7	Rescue and health safety measures are in place for trekkers in ACA										
Activities	4.7.1	Establishment of strong coordinate mechanism with local government & tourism entities to devise effective mechanism for travellers' safety & rescue measures	Meetin g	10	60	600	120	120	120	120	120	600
	4.7.2	Update signage about precaution and safety measures at strategic places	Signag e	75	30	2250	1125	1125	-	-	-	2250

	4.7.3	Establish rescue center at Thorang La/Phedi with manpower, equipment and medicines	Lumpsum	1	17000	17000	10200	1700	1700	1700	1700	17000
		Sub total				19850	11445	2945	1820	1820	1820	19850
Output	4.8	Capacities of hotels/lodges/tea shop operators is enhanced for quality ecotourism services										
Activities	4.8.1	Budget allocation of this activity under Theme Capacity Building (10.4.1-10.4.8)										
		Sub total				-	-	-	-	-	-	-
Output	4.9	Energy plan of ACA is developed										
Activities	4.9.1	Coordinate with government, AEPC & others agencies in energy sectors for the development of Integrated Energy Plan of ACA	Meeting	20	30	600	180	180	60	90	90	600
	4.9.2	Prepare Integrated Energy Plan of ACA	Plan	1	2500	2500	50	2450	-	-	-	2500
		Sub total				3100	230	2630	60	90	90	3100
Output	4.1	Access of communities/HHs for energy efficient devices increased which reduced the use of fuelwood										
Activities	4.10.1	Provide support to Energy Committee to continue services from the kerosene and LP gas depots	Depo	20	60	1200	240	240	240	240	240	1200
	4.10.2	Provide support to the Energy Committee for the wider use of energy efficient devices and utilities to reduce the use of fuel woods for the cooking and space heating (back boiler, solar & smoke water heater, biogas, improved cooking stoves, low wattage cooker, solar light in livestock shed)	Lumpsum	7	500	3500	700	700	700	700	700	3500
		Back boiler, Solar and smoke water heater in Ghandruk & Manang	Event	67	5	335	100	100	100	18	17	335
		Bio gas construction in Ghandruk & Lwang	Site	29	150	4350	870	1300	1740	220	220	4350
		Low wattage cooker in Ghandruk	Site	2	25	50	25	25	-	-	-	50
		Smoke water heater in Jomsom	Site	25	93	2325	581	698	698	233	115	2325
		Solar & smoke water heater in Lwang	HH	30	19	570	570	-	-	-	-	570
		Solar lighting in the livestock shed in Lomanthang	Site	13	75	975	488	487	-	-	-	975
		Solar water heater in Jomsom	HH	31	60	1860	558	558	558	93	93	1860

		Sub total				15165	4132	4108	4036	1504	1385	15165
Output	4.11	Access of communities/HHs enhanced for the use of non-convention sources of energy										
Activities	4.11.1	Support communities for the development of micro hydro and hydropower development by integrating payment for ecosystem service as mechanism of equity distribution (Note: microhydro in Bhujung, Ghandruk, Manang and Sikles)	Site	7	2000	14000	4200	7000	1400	700	700	14000
	4.11.2	Support for the hydropower development in Manang with provision of PES	Lumps um	1	7500	7500	-	3000	2250	1125	1125	7500
		Solar power installation in Ghandruk	Event	12	300	3600	1440	2160	-	-	-	3600
		Sub total				25100	5640	12160	3650	1825	1825	25100
Output	4.12	Poor/disadvantage communities have technology support to mainstream them in conservation										
Activities	4.12.1	Continue support to communities for intermediate technology like grinding and water mill	Lumps um	7	500	3500	700	700	700	700	700	3500
		Improved grinding mill in Lwang, Sikles and Jomsom & Sikles) and water mill	Site	5	150	750	150	375	75	75	75	750
		Water mill in Ghandruk, Jomsom & Manang	Site	3	150	450	90	225	45	45	45	450
	4.12.2	Provide support to communities for the construction/maintenance of Solarium bathroom	HH	483	1.75	845.25	255	255	255	40	40	845.25
	4.12.3	Support for the intensive electrification with a focus to ensure the coverage of HHs of disadvantage communities under this practice	HH	500	3	1500	450	450	450	75	75	1500
		Electrification in Ghandruk,Sikles, Bhujung and Manang	HH	5033	3	15099	4530	4530	4530	755	754	15099
		Sub total				22144.25	6175	6535	6055	1690	1689	22144.2
Output	4.13	Research report on the application of wind energy in ACA is in place										
Activities	4.13.1	Budget allocation under Theme Research, Education & Knowledge management (7.4.1)										
		Sub total				-	-	-	-	-	-	-
Output	4.14	Human resources for the repair/maintenance or energy devices/technology is in place										
Activities	4.14.1	Budget allocation under Capacity Building										

		(10.6.1)										
		Sub total				-	-	-	-	-	-	-
Output	4.15	Communities and schools are supported for improved instructors, and bridges are constructed in view of ecotourism										
Activities	4.15.1	Provide support to the CAMCs for construction and maintenance of the community buildings to enhance their capacities towards organization development on community buildings	Lumps um	2	20000	40000	16000	16000	4000	2000	2000	40000
		CAMCs building in Ghandruk, Sikles, Lwang, Bhujung, Jomsom and Manang)	Buildin g	87	2200	191400	76560	76560	19140	9570	9570	191400
		Maintenance work	Lumps um	10	200	2000	400	400	400	400	400	2000
	4.15.2	Provide material and construction materials for the community and schools building	Lumps um	10	3000	30000	6000	6000	6000	6000	6000	30000
		Furniture to Sikles, Lowang, Jomsom and Lo-Manthang		11	240	2640	792	792	792	132	132	2640
		Compound wall in Lo-Manthang & Manang	Site	5	1320	6600	1980	2640	660	660	660	6600
		Compound wall in Ghandruk, Sikles, Lwang and Bhujung	Site	6	150	900	180	180	180	180	180	900
	4.15.3	Develop and rehabilitate the wooden & suspension bridges and culverts at different sites with focus on to improve such structures in the trekking trails	Lumps um	10	500	5000	1000	1000	1000	1000	1000	5000
		Wooden bridges in Ghandruk, Sikles, Lwang, Jomsom, Lomanthang and Manang and maintenance work	Bridge	44	2500	110000	44000	44000	11000	5500	5500	110000
		Suspension bridge in Ghandruk, Sikles, Lwang, Bhujung and Jomsom	Bridge	16	2200	35200	14080	14080	3520	1760	1760	35200
		Culvert in Sikles & Bhujung) and drainage in Ghandruk, Sikles, Lwang, Bhujung, Jomsom & Manang	Site	6	110	660	660	-	-	-	-	660
		Sub total				424400	161652	161652	46692	27202	27202	424400
Output	4.16	Farmer managed irrigation schemes are improved for enhanced agriculture productivity										
Activities	4.16.1	Develop and rehabilitate farmer managed irrigation structure and facilities	Lumps um	10	400	4000	800	800	800	800	800	4000

		Irrigation structure and facilities in Ghandruk, Sikles, Lwang, Bhujung, Jomsom and Lomanthang	Site	73	350	25550	10220	10220	2555	1280	1275	25550
		Sub total				29550	11020	11020	3355	2080	2075	29550
Output	4.17	Development support to improve existing trail and road										
Activities	4.17.1	Coordinate government and line agencies for enforcing the conservation codes and environmental standard in the Korala Jomsom highway	Code	1	500	500	200	75	75	75	75	500
	4.17.2	Provide Support for the construction/maintenance of roads/trails, and other structures	Lumps um	7	300	2100	420	420	420	420	420	2100
		Infrastructure development in trekking route (Manang, Sikles)	Site	12	80	960	384	384	96	48	48	960
		Trekking route promotion in Ghandruk and tourist trac in Ghara	Site	3	50	150	150	-	-	-	-	150
		Trekking route survey and refinement in Sikles	Site	4	50	200	80	80	20	10	10	200
		Expansion of trekking tourism destination in Ghandruk	Site	5	100	500	100	100	100	100	100	500
		Trail construction & sign in Sikles	Site	10	150	1500	600	600	150	75	75	1500
		Trail construction and maintenance	Site	121	150	18150	7260	7260	1815	910	905	18150
		Road construction and maintenance in Ghandruk, Lwang and Jomsom	Site	35	150	5250	1050	2100	1050	525	525	5250
		Improvement of slab structure in Ghandruk	Site	1	50	50	50	-	-	-	-	50
		Trail-reeling and maintenance in Ghandruk and Bhujung	Site	7	180	1260	252	504	252	126	126	1260
		Welcome gate as entrance in Manang	Site	1	30620	30620	30620	-	-	-	-	30620
		Sub total				61240	41166	11523	3978	2289	2284	61240
Output	4.18	RM level developmental activities										
	4.18.1	Construction of Roads (Rural)	Site		13612977	Through consultation with all 15 RM of ACA, these activities are directed through respective RM, this						
	4.18.2	Irrigation	Site		702495							

	4.18.3	Drinking Water	Site		633250	management plan will endorse these activities through proper EIA/IEE/BES reports. The detailed consultation of these activities is attached in the Annex 20.							
	4.18.4	Bridge Construction	Site		852500								
	4.18.5	Electrification	Site		983100								
	4.18.6	New Trekking Trail Construction	Site		1535500								
	4.18.7	Hotel Construction	Site		1422120								
	4.18.8	River bed Materials	Site		253580								
	4.18.9	Others (If any)	Site		558100								
		Subtotal (Amount not Included in Budget)			20553622								
		Total (4)				969070.3	312873	348016	146008	89957	72216	969070.3	
Outcome	5	Key cultural heritage and practices are restored, conserved and linked to promote cultural tourism in ACA											
Output	5.1	The cultural mapping of ACA and research report on conservation of the Saligram are in place											
Activities		Budget allocation is under Research, Education & Knowledge management 7.6											
		Sub total											
Output	5.2	Culture codes are adopted and xxx cultural and religious sites are renovated in view of culture conservation and ecotourism											
Activities	5.2.1	Prepare Culture Conservation Plan of key site and support communities to implement the plan	Plan	1	600	600	600	-	-	-	-	600	
		Implementation of Plan	Site	5	7500	37500	-	30000	3750	1875	1875	37500	
	5.2.2	Develop culture conservation codes for building and enforce these that retain the values of the traditional architecture and archeological structures	Code	1	300	300	300	-	-	-	-	300	
	5.2.3	Provide support to the communities to continue conserving traditional values of cultural structures such as Dharmasala, Pauwa, temple & Tower, and construction/maintenance of temple, Dewal, Pauwa, Gumba , Mane, Chhyorten, Thanti, and conservation of caves	Lumps um	7	2000	14000	2800	2800	2800	2800	2800	14000	
		Construction/maintenance of temple & Tower (Sikles & Jomsom)	Site	2	300	600	120	120	120	120	120	600	
		Construction/maintenance of temple, Dewal, Pauwa, Gumba (Ghandruk, Sikles,	Site	38	160	6080	608	3648	1216	304	304	6080	

		Lwang,Bhujung & Jomsom)										
		Construction/maintenance of Gumba (Jomsom, Lwang, Manang)	Site	29	200	5800	580	3480	1160	290	290	5800
		Reconstruction Mane, Chhyorten and cave (Jomsom, Lwang, Manang & Lo-Manthang)	Events	40	70	2800	560	560	560	560	560	2800
		Construction of a room in a cave (Jomsom)	Site	1	300	300	300	-	-	-	-	300
		Maintenance of Thanti in Lwang	Site	1	100	100	100	-	-	-	-	100
		Gumba & religious site (Bhujung)	Site	1	20	20	20	-	-	-	-	20
		Temples & worship site (Manang)	Site	2	75	150	75	75	-	-	-	150
		Siddhisthan construction (Jomsom)	Site	1	60	60	60	-	-	-	-	60
		Conservation of religious sites (Bhunung)	Site	2	75	150	150	-	-	-	-	150
		Dhachyang conservation in Manang	Events	7	25	175	35	35	35	35	35	175
		Sub total				68635	6308	40718	9641	5984	5984	68635
Output	5.3	Community managed cultural museum are upgraded and Live Saligram Museum' established to enhance flow of religious pilgrimage										
Activities	5.3.1	Support communities to upgrade space, utilities, and services in existing eco-museum with cultural items	Site	5	5000	25000	7500	7500	5000	5000	-	25000
	5.3.2	Provide support to eco-museum of Jomsom to establish and operate a satellite 'Live Saligram Museum' for the pilgrimage tourism	Site	1	20000	20000	400	14000	4000	800	800	20000
	5.3.3	Building the capacity of communities for the traditional wall art in religious sites and others	Lumps um	4	300	1200	420	600	60	60	60	1200
		Support for the traditional wall art in religious sites (3)	Paint	3	50	150	75	30	15	15	15	150
		Reeling support for Charchan's Gumba (Jomsom)	Reelin g	1	75	75	60	15	-	-	-	75
		Sub total				46425	8455	22145	9075	5875	875	46425
Output	5.4	Youth's initiative of conservation of cultural traditions, festivals & life styles are supported										
Activities	5.4.1	Provide incentives to the cultural groups & clubs for the folk/local song, theatre, dances, music, dress, custom, events etc	Lumps um	7	1000	7000	1400	1400	1400	1400	1400	7000
		Folk song/instrument support to club	Event	5	300	1500	300	300	300	300	300	1500

		(Jomsom), local music/songs (Manang), theatre/local song/ traditional music Naumati & Panche Baja (Lwang) etc										
		Local dance & culture (Manang), traditional dress (Bhujung, Manang and Jomsom), Balan Conservation (Bhujung), Chhyabrum and Dhachyang conservation (Manang)	Event	6	200	1200	240	240	240	240	240	1200
		Traditional custum, events, dance, and culture (Ghatu, Serka/Chhyatu, Sorathi, Dudhpokhari song, Krishna Charitra, Kusunde Ghatu...) in Sikles, Lwangand Manang,	Event	78	65	5070	1014	1014	1014	1014	1014	5070
	5.4.2	Provide incentives to the communities for conservation of traditional worship practices like Chyongo Mane Puja, Nyune Puja, traditional festivals like Yartung festival	Event	30	25	750	150	150	150	150	150	750
		Yartung festival (Manang & Lo-Manthang)	Event	41	35	1435	287	287	287	287	287	1435
		Traditional culture conservation in Lwang	Time	5	30	150	30	30	30	30	30	150
		Lohsar conservation in Ghandruk and Lwang	Site	7	70	490	98	98	98	98	98	490
		Traditional festive conservation in Manang and Bhujung	Event	19	50	950	190	190	190	190	190	950
		Dharjyo in Manang	HHs	577	3	1731	345	345	345	348	348	1731
		Lhosar Conservation	Event	35	20	700	140	140	140	140	140	700
	5.4.3	Conservation of traditional technology associated with culture such as Dhiki & Janto	Time	5	20	100	20	20	20	20	20	100
	5.4.4	Provide support for the conservation of honey hunting culture in Ghandruk and Lwang	Site	2	400	800	240	240	240	40	40	800
	5.4.5	Provide support for the conservation of Shradhasthal	site	1	200	200	200	-	-	-	-	200
		Sub total				22076	4654	4454	4454	4257	4257	22076
Output	5.5	Promotional materials for cultural/religious visitors prepared & disseminated										
Activities	5.5.1	Update and develop documentary on nature and culture associated with landscape & heritage value of ACA, and broadcast it	Audivisual	2	1000	2000	1000	-	1000	-	-	2000

	5.5.2	Publish and disseminate brochure on cultural values specific to UCO	Lumpsum	7	80	560	112	112	112	112	112	560
	5.5.3	Support to awareness cleaning/sanitation campaign around religious sites	Lumpsum	14	20	280	56	56	56	56	56	280
		Cleanup campaign around religious sites in Jomsom	Event	10	20	200	40	40	40	40	40	200
		Sub total				3040	1208	208	1208	208	208	3040
Output	5.6	Human resources/skills for value addition and cultural practices are in place in ACA										
Activities	5.6.1	Budget allocation in Governance 10.8										
		Sub total				-	-	-	-	-	-	-
		Total (5)				140176	20625	67525	24378	16324	11324	140176
		THEME TOTAL (3+4+5)				1280120	377680	469110	203264	127227	102840	1280120

Theme	No.	Title	Unit	Target	Rate	Total	Year (Budget in Thousand)					Total
							1	2	3	4	5	
Theme	4	Climate Actions										
Outcome	6	Resilience of socio ecological complexes to climate change and disaster risk is enhanced										
Output	6.1	Ecological vulnerabilities and adaptive capabilities of the communities to overcome stresses of climate change are assessed										
Activities	6.1.1	Assist communities to assess the environmental vulnerabilities and adaptive capacity in respect of ecological zones in UCOs	Study	1	2000	2000	2,000	-	-	-	-	2,000
	6.1.2	Assist communities and groups to preparation/implementation of adaptation plan of UCO	UCOs	7	1500	10500	2,100	2,100	2,100	2,100	2,100	10,500
	6.1.3	Assist local government and line agencies for the enforcement of environmental guidelines in infrastructure development such as roads, hydropower development, transmission line and so on	Lumpsum	7	700	4900	980	980	980	980	980	4,900
		Sub total				17,400	5,080	3,080	3,080	3,080	3,080	17,400
Output	6.2	LAPA documents are jointly implemented with local government										
Activities	6.2.1	Assist local government to prepare LAPA in areas	LAPA	17	500	8500	8,500	-	-	-	-	8,500

		within ACA which do not have LAPA										
	6.2.2	Provide matching support to the local government to implement LAPA in ACA	LAPA	57	2000	114000	22,800	22,800	22,800	22,800	22,800	114,000
		Sub total				122,500	31,300	22,800	22,800	22,800	22,800	122,500
Output	6.3	Public land and habitats exposed to landslides/soil erosion are protected from increased risk of climate disasters										
Activities	6.3.1	Assist committee/sub-committee to map priority areas of land degradation that require active management	Map	7	150	1050	1,050	-	-	-	-	1,050
	6.3.2	Provide support to committee/sub-committee for the plantation of bamboo and rattans in gullies and open areas of all UCOs	Site	132	300	39600	7,920	7,920	7,920	7,920	7,920	39,600
	6.3.3	Provide support to the communities for the river bank stabilization in collaboration with government	Lumpsu m	10	1000	10000	2,000	2,000	2,000	2,000	2,000	10,000
		Explore potential sites for river bank stabilization, cost estimate and design intervention	Study	1	200	200	200	-	-	-	-	200
		Provide support for bank stabilization at 50 places	Site	50	400	20000	4,000	4,000	4,000	4,000	4,000	20,000
		River training in Ghadrak & Jomsom	Site	15	400	6000	1,200	1,200	1,200	1,200	1,200	6,000
	6.3.4	Provide support to the communities for the bio-engineering of landslide, and soil and watershed management	Lumpsu m	10	1000	10000	2,000	2,000	2,000	2,000	2,000	10,000
		Landslide in Ghanduk & Lo-Manthang,	Site	36	300	10800	2,160	2,160	2,160	2,160	2,160	10,800
		Gabion & plantation (Ghandruk, Sikles, Lwang, Bhujung & Manang)	Site	206	200	41200	8,240	8,240	8,240	8,240	8,240	41,200
		Soil and watershed conservation in Manang	Site	2	500	1000	300	600	100	-	-	1,000
		Sub total				139,850	29,070	28,120	27,620	27,520	27,520	139,850
Output	6.4	Capacities of communities for climate adaptation is enhanced										
Activities	6.4.1	Budget allocation is under Governance (10.10)										
		Sub total				-	-	-	-	-	-	-
		Total (6)				279,750	65,450	54,000	53,500	53,400	53,400	279,750

Theme	No.	Title	Unit	Target	Rate	Total	Year (Budget in Thousand)					Total
							1	2	3	4	5	
Theme	5	Research, Education & Knowledge Management										
Outcome	7	Researches in diverse socio-ecological issues are convened, documented, and disseminated										
Output	7.1	A research mechanism is devised and practiced to explore information on socioeconomics and biodiversity of ACA										

Activities	7.1.1	Create a high-level research committee/board in partnership with other research institutions to provide overall guidance on research Themes	Board	1	1000	1000	200	200	200	200	200	1,000
	7.1.2	Diversify research Themes including unexplored topics and area	Lumpsum	1	100	100	100	-	-	-	-	100
	7.1.3	Support scholars to conduct long term research on different components of socio-ecological system	Study	10	600	6000	1,200	1,200	1,200	1,200	1,200	6,000
	7.1.4	Continue support for graduate students to conduct short-term study on natural resources and biodiversity	Study	100	75	7500	1,500	1,500	1,500	1,500	1,500	7,500
	7.1.5	Update biodiversity and socio-economic data base in view of new federal structure	Study	1	6000	6000	120	5,520	120	120	120	6,000
	7.1.6	Conduct wetlands inventory of ACA and generate a wetlands map	Inventorymap	1	4000	4000	80	3,920	-	-	-	4,000
	7.1.7	Document traditional and indigenous knowledge on conservation and uses of natural resources and biodiversity	Register	1	2000	2000	40	1,960	-	-	-	2,000
	7.1.8	Develop/apply software for the proper documentation and access to the information	Software	1	3000	3000	3,000	-	-	-	-	3,000
		Sub total				29,600	6,240	14,300	3,020	3,020	3,020	29,600
Output	7.2	Status of threatened, endangered & government protected sps and assessment of game/trophy of selected wildlife species in ACA are researched, documented & disseminated										
Activities	7.2.1	Conduct wildlife census with a focus on threatened, endangered and government protected species	Lumpsum	1	5000	5000	500	4,500	-	-	-	5,000
	7.2.2	Conduct study on game & trophy hunting of selected wildlife species	Study	1	1500	1500	1,500	-	-	-	-	1,500
		Sub total				6,500	2,000	4,500	-	-	-	6,500
Output	7.3	Socio-economics, new opportunities and value addition to enhance ecotourism in ACA are explored for research and explored for interventions										
Activities	7.3.1	Conduct impact assessment of ecotourism on socio-ecology and its broader level contribution on the national economy	Study	1	3000	3000	3,000	-	-	-	-	3,000
	7.3.2	Conduct study to explore opportunities for diversifying ecotourism products and services	Study	1	700	700	700	-	-	-	-	700

	7.3.3	Conduct study to explore new tourism destinations such as adventure trekking, mountain biking, rock climbing, glacier walk, water sport tourism, sky diving etc.	Study	1	2500	2500	-	2,500	-	-	-	2,500
	7.3.4	Explore potential of tourist routes across south Annapurna to north to Bhujung, Ghale Gaun, Mustang to Tilicho	Study	1	1500	1500	-	1,500	-	-	-	1,500
	7.3.5	Conduct market research with focus on tourists' perception, demand and standard	Study	1	1000	1000	1,000	-	-	-	-	1,000
		Sub total				8,700	4,700	4,000	-	-	-	8,700
Output	7.4	Action plan for wind energy is in place and no of HHs involved in conservation benefitted										
Activities	7.4.1	Prepare action plan for the application of wind energy in Jomsom, Lomanthang & Manang	Plan	1	2000	2000	2,000	-	-	-	-	2,000
		Plan implementation	Lumpsum	1	50000	50000	-	24,000	24,000	1,000	1,000	50,000
		Sub total				52,000	2,000	24,000	24,000	1,000	1,000	52,000
Output	7.5	Environmental and socio-economic effectiveness of ACA and opportunities from NTFPs on the socio-ecological prosperity are assessed										
Activities	7.5.1	Conduct economic effectiveness of ACA	Study	1	3000	3000	3,000	-	-	-	-	3,000
	7.5.2	Conduct detail biological and ethno-botanical survey and value chain analysis of NTFPs including MAPs	Survey	1	3000	3000	3,000	-	-	-	-	3,000
		Site specific NTFP research (Manang)	Site	2	75	150	150	-	-	-	-	150
	7.5.3	Conduct feasibility study for Lokta and assessment of establishing a refinement center in Bhujung	Study	1	200	200	200	-	-	-	-	200
		Sub total				6,350	6,350	-	-	-	-	6,350
Output	7.6	The cultural mapping of ACA and research report on conservation of the Saligram are in place										
	7.6.1	Conduct cultural mapping of the ACA with key heritage sites and practices, and prioritize sites for interventions	Survey	1	2500	2500	-	2,500	-	-	-	2,500
	7.6.2	Conduct a study on the conservation of Saligram in Dhye (Mustang)	Study	1	1000	1000	-	1,000	-	-	-	1,000
		Sub total				3500	0	3500	0	0	0	3,500
		Total (7)				106,650	21,290	50,300	27,020	4,020	4,020	106,650
Outcome	8	Diverse groups of stakeholders are aware of conservation ethos and put them into practice										
Output	8.1	Conservation awareness packages for all tiers of audiences are prepared and in use										
Activities	8.1.1	Prepare conservation education package for government personnel, communities and	Package	3	225	675	540	135	-	-	-	675

		school students linked with contemporary issues of CA management										
	8.1.2	Impart information based on through events & workshop to assimilate the strength of government personnel, communities, and students in conservation practices	Event	12	200	2400	720	960	480	240	-	2400
	8.1.3	Establish biodiversity visitor center in all UCOs to make visitors and local people know and informed about the key biodiversity found in each unit office	Center	7	2000	14000	8400	1400	1400	1400	1400	14000
	8.1.4	Provide training to local persons on interpretation and management of the visitor's centers and ensure economic sustainability by charging entry fee	Person	7	50	350	350	-	-	-	-	350
		Sub total				17425	10010	2495	1880	1640	1400	17425
Output	8.2	Students/youth and their groups are prepared to deliver more tangible tasks of nature and culture conservation										
Activities	8.2.1	Assist youth for the formation new green clubs and provide materials supports to the clubs	Club	122	15	1830	549	1281	-	-	-	1830
	8.2.2	Assist sub-committee to form a network of green clubs, prepare annual plan of operation which consist of sets of action in and outside schools	Plan	7	20	140	140	-	-	-	-	140
	8.2.3	Assist network of green clubs to implement their plan, and develop Conservation Fund to sustain the functioning of green clubs		7	500	3500	1050	1050	1050	175	175	3500
	8.2.4	Support youth camp (Sikles)	Event	1	20	20	20	-	-	-	-	20
	8.2.5	Set mechanism to reward best performers of green clubs, and provide prizes & incentives	Lumpsum	7	500	3500	700	700	700	700	700	3500
		Mechanism	Mechanism	1	20	20	20	-	-	-	-	20
		Award distribution to best performer school	School	25	25	625	125	125	125	125	125	625
		Award to best performer students	Student	50	5	250	50	50	50	50	50	250
		Award to CE students (Ghandruk, Lwang & Manang) for their special contribution	Events	68	10	680	136	136	136	136	136	680
		Award to clubs	Club	25	40	1000	200	200	200	200	200	1000
		Sub total	-			11565	2990	3542	2261	1386	1386	11565
Output	8.3	Infrastructure support improved conservation education in schools to enhance youth participation in conservation of nature and culture										
Activities	8.3.1	Provide construction and materials supportto 7 schools for the science laboratory and	Lumpsum	7	600	4200	840	840	840	840	840	4200

		library to help schools grow as model schools										
		Support for laboratory	Lab	7	700	4900	1470	1470	980	490	490	4900
		Books/materials in Jomsom	School	2	60	120	60	60	-	-	-	120
		School support in Ghandrk & Manang	School	3	40	120	30	60	30	-	-	120
		Conservation education book distribution in Manang	School	15	7	105	26	53	26	-	-	105
		Education material support in Jomsom	School	2	50	100	50	50	-	-	-	100
		School support in Ghandruk	School	3	300	900	450	450	-	-	-	900
	8.3.2	Provide support to the schools to link conservation and biodiversity in sport and play	Lumpsum	7	600	4200	840	840	840	840	840	4200
		Ground & maintenance works (Ghandruk, Sikles, Jomsom & Lomanthang)	School	18	251	4518	2259	2259	-	-	-	4518
		Sport materials to youth in Manang	Event	1	10	10	10	-	-	-	-	10
	8.3.3	Continue conservation education in schools of all UCOs	School	92	58	5336	1067	1067	1067	1067	1068	5336
		Sub total				24509	7102	7149	3783	3237	3238	24509
Output	8.4	Capacity of students/youth is enhanced for new Apps and Apps based biodiversity monitoring in place										
Activities	8.4.1	Assist schools to upgrade computer laboratory in 7 schools with internet facilities	Lab	7	700	4900	2450	2450	-	-	-	4900
	8.4.2	Enhance the skills of teachers and students to apply Mobile Apps for biodiversity mapping and wildlife monitoring of their area, and to document the reports	School	21	100	2100	420	630	630	210	210	2100
	8.4.3	Continue support to schools and clubs to observe global environmental events like the Wetlands Day, Environment Day, Biodiversity Day etc	Event	687	10	6870	1374	1374	1374	1374	1374	6870
		Sub total				13870	4244	4454	2004	1584	1584	13870
Output	8.5	Conservation learning is documented & disseminated to the wider audience in & outside Nepal										
Activities	8.5.1	Conduct case studies to explore different success stories from ACA, and publish and disseminate success stories	Study	5	1000	5000	1000	1000	1000	1000	1000	5000
	8.5.2	Update conservation documentaries for the national audience and broadcast these	Document	3	2000	6000	2400	-	2100	1500	-	6000
	8.5.3	Establish a central library in ACA to document all archives, baseline information, publications, lessons, strategic documents and so on	Library	1	5000	5000	2000	2000	500	250	250	5000

		Sub total				16000	5400	3000	3600	2750	1250	16000
Output	8.6	Capacity of communities/groups is built up to undertake conservation & extension tasks in ACA										
Activities	8.6.1	Budget allocation in Governance (10.12)										
		Sub total				-	-	-	-	-	-	-
		Total (8)				83369	29746	20640	13528	10597	8858	83369
		THEME TOTAL (7+8)				190,019	51,036	70,940	40,548	14,617	12,878	190,019
Theme	No.	Title	Unit	Target	Rate	Total	Year (Budget in Thousand)					Total
							1	2	3	4	5	
Theme	6	Gender Equity & Social Inclusion										
Outcome	9	Mainstreaming of GESI at all levels and processes of conservation area management										
Output	9.1	Involvement of Women/marginalized & socially excluded people is ensured in decision making position of local institution										
Activities	9.1.1	Strengthening engagement and roles of women in CAMC	Lumpsum	15	30	450	90	90	90	90	90	450
	9.1.2	Strengthening meaningful participation of women and targeted groups in CCs	Lumpsum	10	20	200	40	40	40	40	40	200
	9.1.3	Facilitate the process of participation of women, marginalized and socially excluded people in leadership roles in ACA governance.	Lumpsum	10	20	200	40	40	40	40	40	200
		Sub total				850	170	170	170	170	170	850
Output	9.2	Women groups are empowered for organization management and their network is in operation										
Activities	9.2.1	Provide technical and financial support to women groups to consolidate & convene their conservation and other actions through workshop	Event	35	70	2450	490	490	490	490	490	2450
		Women awareness workshop in Jomsom	Event	5	30	150	30	30	30	30	30	150
		Coordination workshop of Ama Toli in Ghandruk, Jomsom, Lwang	Event	38	29	1102	220	220	222	220	220	1102
		Social mobilization training in Sikles	Event	1	20	20	20	-	-	-	-	20
		Training and workshop of Aama Toli in Manang	Event	5	20	100	20	20	20	20	20	100
		Financial management training for cooperatives in Sikles	Event	5	40	200	40	40	40	40	40	200
	9.2.2	Provide support to community building and materials support to the women groups as incentive to leverage their actions in conservation, health and sanitation, and promotion of ecotourism	Lumpsum	7	400	2800	560	560	560	560	560	2800

		Assist Ama Toli for furniture support in Ghandruk and Jomsom	Event	2	50	100	50	50	-	-	-	100
		Construction support for building for mother's group of Jomsom	Event	2	300	600	540	60	-	-	-	600
		Support mothers' group of Ghandruk and Lwang	Site	11	120	1320	1,188	132	-	-	-	1320
		Facilitate mother group of Manang to consolidate their issues in conservation and economic empowerment	Meeting	10	20	200	40	40	40	40	40	200
	9.2.3	Assist women groups to form their network horizontally and vertically to safeguard their interests at all levels of governance structure in ACA	Meeting	7	20	140	140	-	-	-	-	140
		Sub total				9,182	3,338	1,642	1,402	1,400	1,400	9182
Output	9.3	Women including socially excluded groups are empowered for their economic options from the operation of conservation related businesses										
Activities	9.3.1	Assist women group to create endowment fund to sustain their conservation actions towards economic sovereignty	Time	1	2000	2000	2,000	-	-	-	-	2000
	9.3.2	Provide material and other supports to strengthen organizational management of women's cooperatives in carrying out conservationfriendly economic activities	Lumpsum	7	900	6300	1,260	1,260	1,260	1,260	1,260	6300
		Cooperative formulation in Sikles	Event	1	30	30	30	-	-	-	-	30
		Auditing of cooperative in Bhujung	Event	12	20	240	48	48	48	48	48	240
		Cooperative management book & materials in Bhujung	Event	8	45	360	144	216	-	-	-	360
		Cooperative support in Sikles	Site	1	100	100	100	-	-	-	-	100
	9.3.3	Strengthen capacity of women groups to identify their entrepreneurial activities, prioritize activities and prepare and implement their business plan	Event	5	80	400	80	80	80	80	80	400
		Dhiki for Mother's Group in Ghandruk	Event	1	20	20	20	-	-	-	-	20
		Tan and Charkha distribution in Sikles	Group	1	50	50	50	-	-	-	-	50
		Sewing machine support in Ghandruk, Jomsom and Lwang	HH	57	12	684	342	342	-	-	-	684
		Mother's group support in Ghandruk & Lwang	Group	11	90	990	198	198	198	198	198	990

	9.3.4	Assist socially marginalized Dalitgroups to explore their economic activities, develop package program for economic activities and support groups to implement package programs	HH	13	50	650	650	-	-	-	-	650
		Income Generation Activities including disadvantage group and Dalits in Ghandruk & Jomsom	HH	986	1.5	1479	592	444	295	148	-	1479
		Women enterprise support for Dalit in Lwang	Time	1	90	90	90	-	-	-	-	90
		Dalit support in Manang	HH	13	50	650	650	-	-	-	-	650
		Sub total				14,043	6,254	2,588	1,881	1,734	1,586	14043
Output	9.4	Awareness of women /socially marginalized groups areenhanced for conservationofnature, culture and heritage in ACA										
Activities	9.4.1	Enhance capacity of women groups for the cooperative managementof natural resources through study and observation tours	Lumpsum	7	300	2100	420	420	420	420	420	2100
		Study tour for women ofSikles, Lwang, Bhujung, Manang & Jomsom)	Event	24	65	1560	468	780	312	-	-	1560
	9.4.2	Continue and upscale scholarship for the formal study of women withemphasis to the socio-economically marginalized groups	Person	500	3	1500	300	300	300	300	300	1500
	9.4.3	Assist women groups for upscale conservation awareness and celebrate events like women day, Teej and so on	Lumpsum	7	200	1400	280	280	280	280	280	1400
		Awareness camp for women in Jomsom) and celebration of women day	Event	35	10	350	70	70	70	70	70	350
		Support to celebrate festive of women such as Teej in Ghandruk	Event	9	65	585	117	117	117	117	117	585
		Sub total				7,495	1,655	1,967	1,499	1,187	1,187	7495
Output	9.5	Access of women groups to the health facilities/services is improved for the maternity/child care to reciprocate their participation in conservation of nature and culture										
Activities	9.5.1	Support women groups for awareness camp to safeguard mothers from the transmission of HIV/AIDs and other diseases	Event	14	25	350	87.5	87.5	87.5	87.5	-	350
	9.5.2	Provide support to women groups for materials/equipment for the safety delivery of babies	Lumpsum	10	200	2000	500	500	500	500	-	2000
		Provide delivery materials for the safety of mothers (Jomsom)	HH	155	2	310	77.5	77.5	77.5	77.5	-	310

	9.5.3	Strengthen women groups through general awareness and material distribution for the family planning and birth control	Lumpsum	7	500	3500	875	875	875	875	-	3500
		Provide family planning materials and other supports (Ghandruk)	Lumpsum	1	100	100	25	25	25	25	-	100
	9.5.4	Continue support to the women groups for the operation of the child care center to enable mother members to contribute to off farm and conservation activities	Lumpsum	7	500	3500	875	875	875	875	-	3500
		Support for child care center in Ghandruk, Sikles, Bhujung and Manang	Site	13	30	390	97.5	97.5	97.5	97.5	-	390
		Land purchase for child care center in Bhujung	Site	1	200	200	200	-	-	-	-	200
		Sub total				10,350	2,738	2,538	2,538	2,538	-	10350
Output	9.6	Capacities of women/socially marginalized groups are enhanced for their meaningful participation in the conservation of nature & culture in ACA										
Activities	9.6.1	Budget allocation in Governance (10.9.1-10.9.3, 10.12.4)										
		Sub total				-	-	-	-	-	-	-
		THEME Total (9)				41,920	14,155	8,905	7,490	7,029	4,343	41920

Theme	No.	Title	Unit	Target	Rate	Total	Year (Budget in Thousand)					Total
							1	2	3	4	5	
Theme	7	Governance										
Outcomes	10	Governing capacity of local institution & people is enhanced to leverage services on conservation of natural resources and biodiversity nature, conservation of local culture and heritage and promotion of tourism for the socio-ecological prosperity in ACA										
Output	10.1	Capacity of local institution is enhanced for the good conservation governance										
Activities	10.1.1	Provide materials and equipment support for the administrative, technical and capacities of communities' organizations such as CAMC, UCCs and CCs	Lumpsum	14	800	11200	2,240	2,240	2,240	2,240	2,240	11,200
		Construction of CAMC building in Manang	Building	3	600	1800	900	900	-	-	-	1,800
		Computer & accessories (Jomsom)	Set	5	50	250	125	125	-	-	-	250
		Operation plans of CAMC and UCOs based on Management Plan of ACA (2017-2021)	Plan	7	250	1750	1,050	175	175	175	175	1,750
		Office management training to CAMC (Ghandruk)	Event	1	70	70	70	-	-	-	-	70
		HR expert (consultant for proposal development)	mm	65	60	3900	780	780	780	780	780	3,900
		Office assistant in Manang	mm	130	5	650	130	130	130	130	130	650

		Social mobilizers to Sikles (4 mobilizer to existing CAMCs)	mm	260	7	1820	364	364	364	364	364	1,820
		Materials/equipment's	Lumpsum	2	80	160	96	16	16	16	16	160
	10.1.2	Establish effective inter-institutional coordination mechanism and methodologies to work in coherence among CAMCs, UCOs, CCs, and so on, and track the progresses and practices	Event	975	1.5	1462.5	292.5	292.5	292.5	292.5	292.5	1,463
		Among existing CAMC in Bhujung, Ghandruk, Jomsom, Lomanthang, Lwang, Sikles	Event	173	9	1557	311.4	311.4	311.4	311.4	311.4	1,557
	10.1.3	Consolidate coordination mechanism among government, line agencies, private and other stakeholders for synergy from shared opportunities and strengths	Event	15	25	375	75	75	75	75	75	375
	10.1.4	Build capacity of CAMC, UCOs and CCs, and sub-committee through training and workshop for good governance, plan-based operation, and organizational management from planning, designing, implementing, and monitoring actions	Event	7	150	1050	210	210	210	210	210	1,050
		Support for legal consultation & action	Event	65	50	3250	650	650	650	650	650	3,250
	10.1.6	Provide support to CAMCs, UCOs & CCs to implement community initiatives of conservation/development actions for socio-ecological prosperity, and build their capacity to leverage external funding from the proposition development	Lumpsum	7	500	3500	700	700	700	700	700	3,500
	10.1.7	Update facilities & practices for effective monitoring and reporting systems	Review	1	100	100	80	-	10	10	-	100
		Sub total				32,895	8,074	6,969	5,954	5,954	5,944	32,895
Output	10.2	Capacity of xxx number of institution/communities built up for the scientific management of forests, habitats and biodiversity in ACA										
Activities	10.2.1	Assist forest sub-committee to prepare operation plans with the focus on habitat restoration, livestock & rangeland management, ecotourism, and forests-based entrepreneurship, and implement interventions based on operation plan	Plan	57	20	1140	228	228	228	228	228	1,140
	10.2.2	Continue extension of awareness programs for the conservation of habitats and ecosystems in view of scientific management of forests, rangelands, and wetlands	Lumpsum	14	200	2800	560	560	560	560	560	2,800
		Awareness program (Ghandruk, Sikles, Lwang,	Event	31	71	2201	441	660	660	440	-	2,201

		Bhujung, Jomsom & Lomanthang)										
	10.2.3	Assists CAMCs and forest sub-committee to exchange conservation learning through study and observation tour within ACA	Lumpsum	7	700	4900	980	980	980	980	980	4,900
		Study tour fo Ghandruk,Lwang, Bhujung ,Manang & Jomsom	Tour	43	155	6665	1,332	2,000	2,000	1,333	-	6,665
	10.2.4	Organize training events to enhance leadership and decision-making capacities of the conservation leaders for natural resources and biodiversity management	Event	14	250	3500	700	700	700	700	700	3,500
		Training for leadership and decision-making process (Ghandruk & Lwang)	Event	2	263	526	263	263	-	-	-	526
	10.2.5	Enhance capacities of the local leaders and communities for the legal proficiency related to the management and wise uses of the natural resources and biodiversity	Event	4	50	200	40	40	40	40	40	200
	10.2.6	Enhance capacities of forest subcommittee through training for the silviculture and scientific management of forests	Event	35	100	3500	875	875	875	875	-	3,500
	10.2.7	Enhance administrative, financial, and auditing capacities of all CAMCs with focus on socio-ecological prosperity & contemporary issues of environment conservation	Lumpsum	35	50	1750	437.5	437.5	437.5	437.5	-	1,750
		Capacity enhancement training for admin/finance (Lwang)	Event	1	25	25	25	-	-	-	-	25
		Capacity enhancement training for admin/auditing (Bhujung)	Event	8	25	200	50	50	50	50	-	200
		Capacity enhancement training for admin/record keeping (Ghandruk & Lwang)	Event	8	155	1240	310	310	310	310	-	1,240
		Capacity enhancement training for auditing of existing all CAMCs	Event	272	6.5	1768	353.6	353.6	353.6	353.6	353.6	1,768
		Record keeping training (Lwang)	Event	4	16	64	32	32	-	-	-	64
		Capacity enhancement training for sikles	Event	1	30	30	30	-	-	-	-	30
	10.2.8	Enhance capacity of CAMCs to consolidate anti-poaching practices of wildlife management	Lumpsum	7	1200	8400	1,680	1,680	1,680	1,680	1,680	8,400
		Controlling wildlife poaching & hunting (Shikha, Ghandruk)	Event	10	50	500	100	100	100	100	100	500
		Sub total				39,409	8,437	9,269	8,974	8,087	4,642	39,409
Output	10.3	Capacities of groups/communities are enhanced for the management of forest fire										

Key Action	10.3.1	Sensitize & aware communities to avoid activities increasing the risks of forest fire, and to adopt local ways/means to control forest fire	Event	35	50	1750	525	525	350	175	175	1,750
		Fire control training in Bhujung	Event	7	20	140	70	70	-	-	-	140
		Forest fire awareness camp in Manang	Event	1	5	5	5	-	-	-	-	5
		Aware to avoid activities in forest sensitive to fire (all UCOs, priority camp in Manang)	Event	14	10	140	28	28	28	28	28	140
		Sub total				2035	628	623	378	203	203	2,035
Output	10.4	Capacities of hotels/lodges/tea shop operators is enhanced for quality ecotourism services										
Activities	10.4.1	Enhance capacities of local people through training to integrate & consolidate their past activities in promoting local culture & tradition as integral to the ecotourism	Event	7	90	630	126	126	126	126	126	630
	10.4.2	Mainstream youth force through training & workshop for cultural performances in conserving local tradition, folk songs/dances, costumes, cultural heritage & values	Event	7	90	630	126	126	126	126	126	630
	10.4.3	Assist the Tourism Management Committee (TMC) to review and update menu-based quality products & services with monitoring & reporting system	Event	10	25	250	50	50	50	50	50	250
		TMsC coordination workshop in Bhujung, Ghandruk, Jomsom, Lwang and Manang	Event	86	25	2150	430	430	430	430	430	2,150
		TMsC Reformation	Event	8	5	40	40	-	-	-	-	40
	10.4.4	Continue enhancing capacities of communities through training for housekeeping and hospitality to upgrade and maintain uniformity services and standards in the hotels/lodges with monitoring & reporting system	Person	500	10	5000	1,500	2,000	1,000	250	250	5,000
		Tourism management refresher training in Sikles	Event	4	35	140	70	-	70	-	-	140
		Tourism management training for TMsC (Ghandruk, Lomanthang, Lwang and Sikles)	Event	17	70	1190	357	-	833	-	-	1,190
		Tourism Management Workshop	Event	2	45	90	45	-	45	-	-	90
		Hotel management training in Sikles and Jomsom	Event	7	70	490	146	172	172	-	-	490
		Training for homestay management (Bhujung, Ghandruk, Lomanthang, Lwang)	Event	16	70	1120	336	392	392	-	-	1,120
		Waitress training (Ghandruk & Sikles)	Person	190	3.5	665	205	230	230	-	-	665

	10.4.5	Continue support to TMC to provide trekking cook training for hotels/lodges operators with a provision of geography & culture specific at least one standard food item in service menu with monitoring & reporting system	Hotel	300	10	3000	900	1,050	1,050	-	-	3,000
	10.4.6	Continue proficiency language training to hotel/lodges operators and nature guides linked with conservation & cultural values of ACA, availability of health, rescue and safety services in ACA, and about 'Do' & 'Do Not' codes	Event	7	200	1400	280	280	280	280	280	1,400
		Language training (Ghandruk, Jomsom, Manang, Sikles)	Person	502	1.5	753	300	302	76	75	-	753
		Fine art training in Ghandruk	Event	4	65	260	130	-	130	.	-	260
		Photography training for Ghandruk	Person	20	8	160	80	80	-	-	-	160
		Nature guide (Bhujung, Ghandruk, Jomsom, Lwang, Sikles)	Person	308	7	2156	862	1,078	216	-	-	2,156
	10.4.7	Assist Tourism Management Committee to device a mechanism, so that financial assistance like credit/grant is accessible to trained & resource poor entrepreneurs to initiate/upscale businesses with focus on monitoring & reporting system	HH	70	80	5600	2,240	2,800	560	-	-	5,600
	10.4.8	Organize exposure visit to the members TMC, CAMC, UCC and CC, hotel/lodges operators to have the broader prospective helpful to value add in ecotourism	Tour	2	600	1200	600	-	600	-	-	1,200
		Study tour to tourism committee members of Bhujung (10 members)	Tour	1	50	50	50	-	-	-	-	50
		Study tour to TMsC Lomanthang	Tour	7	300	2100	735	735	210	420	-	2,100
		Sub total				29,074	9,608	9,851	6,596	1,757	1,262	29,074
Output	10.5	Human resources/skill for the repair/maintenance of infrastructures are in place										
Activities	10.5.1	Assist committees/sub-committees for vocational skill of their members such as plumbing, masonry work, carpenter, house wiring and so on	Lumpsum	100	20	2000	1,000	1,000	-	-	-	2,000
		Plumbing (in all UCOs) and house wiring in Ghandruk	Person	60	50	3000	1,500	1,500	-	-	-	3,000
		Masonry (in all UCOs) and carpenter ship in Bhujung	Person	120	50	6000	3,000	3,000	-	-	-	6,000
		House wiring training for Ghandruk	Person	60	50	3000	1,500	1,500	-	-	-	3,000

		Carpenter training in Bhujung	Event	60	70	4200	2,100	2,100	-	-	-	4,200
		Sub total				18,200	9,100	9,100	-	-	-	18,200
Output	10.6	Human resources for the repair/maintenance or energy devices/technology is in place										
Activities	10.6.1	Provide support to sub-committee training to communities for preparing & marketing bio-briquette to reduce the use of fuel wood in cooking and space heating	Lumpsum	7	300	2100	1,050	630	420	-	-	2,100
		Preparation and marketing of bio-briquete (Jomsom & Lwang)	Person	80	2	160	160	-	-	-	-	160
		Maintenance of solar devices (Ghandruk, Sikeles, Lo-Manthang & Manang)	Event	36	45	1620	486	648	162	162	162	1,620
		Installation of improved cooking stove in Bhujung, Ghandruk, Jomsom, Lwang, Manang & Sikles	HH	4186	2	8372	1,675	1,675	1,674	1,674	1,674	8,372
	10.6.2	Assist sub-committee to train its members for the repair/maintenance of solar devices	Lumpsum	14	200	2800	560	560	560	560	560	2,800
		Sub total				15,052	3,931	3,513	2,816	2,396	2,396	15,052
Output	10.7	Capacity of communities is built up for different green & ecotourism businesses for the socio-ecological prosperity in ACA										
Activities	10.7.1	Assist sub-committee to device a mechanism with codes & principle to provide technical & financial support to the communities to run forest-based 7 enterprises, one each in UCO	Enterprises	7	4000	28000	2,800	13,440	11,200	280	280	28,000
	10.7.2	Enhance capacity of the conservation farmers to produce vegetables, crop, fruits and so on in kitchen gardens and farmland with application of Integrated Pest Management and bio-fertilizers with the mandatory provision of fodder plantation	Lumpsum	7	600	4200	840	840	840	840	840	4,200
		Mushroom and sparagus farming training in Ghandruk	Event	2	42	84	42	42	-	-	-	84
		Organic vegetable farming training in Ghandruk, Lomanthang and Lwang	Event	36	64	2304	461	461	461	461	460	2,304
		Cash crop farming training in Bhujung, Ghandruk, Lwang, Manang & Sikles	Event	95	150	14250	2,850	2,850	2,850	2,850	2,850	14,250
		Conservation farmer workshop in Lwang and Manang	Event	80	3	240	120	120	-	-	-	240
		Conservation farmer training in Ghandruk	Event	4	36	144	72	72	-	-	-	144
		Horticulture training in Lwang	Event	1	7	7	7	-	-	-	-	7
		Morden Agriculture Training in Ghandruk	Event	2	89	178	178	-	-	-	-	178

		Agriculture training in Manang	Event	4	30	120	60	60	-	-	-	120
		Kitchen garden training in Sikles	Event	10	10	100	20	20	20	20	20	100
	10.7.3	Continue providing materials and tools to resource poor small farmers such as management of agriculture nursery, agricultural tools, crop seed, fruit seedling etc with the mandatory provision of fodder plantation	Lumpsum	7	600	4200	840	840	840	840	840	4,200
		Agriculture nursery support in Ghandruk	Nursery	3	117	351	281	17.5	17.5	17.5	17.5	351
		Crop seed distribution in Lwang	HH	60	2	120	24	24	24	24	24	120
		Agricultural tools support in Ghandruk, Lomanthang, Lwang	Group	90	40	3600	720	720	720	720	720	3,600
		Fruit seedling distribution (Orange, Lemon, Guava...) in Lwang	Group	2	50	100	40	30	30	-	-	100
		Off seasonal vegetable farming and material support in Ghandruk	Site	6	130	780	234	312	234	-	-	780
	10.7.4	Continue enhancing capacities for the livestock & fishery development including their health with the mandatory provision of fodder plantation to reduce grazing pressure in rangeland	Lumpsum	7	700	4900	980	980	980	980	980	4,900
		Cattle farming training in Ghandruk and Lwang	Event	12	10	120	24	24	24	24	24	120
		Agriculture and livestock development training in Sikles	Event	9	4	36	18	18	-	-	-	36
		Goat farming training in Ghandruk	Event	1	20	20	20	-	-	-	-	20
		Livestock health workshop in Bhujung	Event	1	20	20	20	-	-	-	-	20
		Fish farming in Ghandruk	Event	1	200	200	200	-	-	-	-	200
		Bee keeping in Ghandruk	Event	10	65	650	130	130	130	130	130	650
	10.7.5	Enhance the capacity of small farmers for agro-based entrepreneurship development with the mandatory provision of fodder plantation	Lumpsum	7	800	5600	1,120	1,120	1,120	1,120	1,120	5,600
		NTFP s identification, survey, market management etc (Ghandruk & Lwang)	Event	5	155	775	387.5	387.5	-	-	-	775
		NTFP plantation (Bhujung & Manang)	Site	2	300	600	-	180	180	180	60	600
		NTFP and Seed distribution in Manang		1	20	20	20	-	-	-	-	20
		Nursery management support in Ghandruk, Bhujung and Manang	Site	18	205	3690	369	1,107	1,107	738	369	3,690
		Tea farming support in Ghandruk	Site	17	300	5100	1,530	2,040	1,020	255	255	5,100
		Tea nursery in Ghandruk	Site	15	800	12000	4,800	6,000	600	300	300	12,000
		Study tour for farmers in Ghandruk & Sikles	Event	13	70	910	455	455	-	-	-	910

		Entrepreneurship training in Manang	Event	65	70	4550	910	910	910	910	910	4,550
	10.7.6	Enhance capacity of the farmers for the conservation such as resource survey, stock taking, plantation, value addition and so on	Survey	1	1500	1500	300	300	300	300	300	1,500
	10.7.7	Enhance capacity of the farmers to discourage the use of synthetic fertilizers & pesticides and use of bio-fertilizer and bio-pesticides, and device mechanism to provide financial support to produce bio-fertilizers/bio-pesticides as an integral to IPM	Lumpsum	7	800	5600	1,120	1,120	1,120	1,120	1,120	5,600
		Capacity training for the preparation and use of bio-pesticide from NTFPs in Ghandruk	Event	1	40	40	40	-	-	-	-	40
		Capacity enhancement training for high energy input agriculture (modern) in Ghandruk	Event	5	70	350	70	70	70	70	70	350
		Compost fertilizer making training in Ghandruk & Lwang	Event	10	55	550	110	110	110	110	110	550
		Compost improvement program in Bhujung	Event	10	150	1500	300	300	300	300	300	1,500
	10.7.8	Enhance capacity of some farmers for the piloting intensive farming of agriculture with the application of IPM in Ghandruk	Lumpsum	1	2500	2500	500	500	500	500	500	2,500
	10.7.9	Provide Support to the socially marginalized Dalit with materials/equipment for agriculture	Lumpsum	7	700	4900	980	980	980	980	980	4,900
	10.7.10	Continue support for the veterinary technicians for taking care of livestock health										
		Veterinary technician support in Bhujung and Sikles	Time	10	25	250	50	50	50	50	50	250
		Sub total				115,159	24,043	36,630	26,738	14,120	13,630	115,159
Output	10.8	Human resources/skills for value addition and cultural practices are in place in ACA										
Activities	10.8.1	Assist sub-committee to build the capacity of its members masonry work, wood craft and color painting for the conservation of cultural heritage	Lumpsum	7	500	3500	1,050	1,400	350	350	350	3,500
	10.8.2	Assist sub-committee to upgrade its cultural museum and operate live museum of the Saligram	Lumpsum	1	5000	5000	1,500	2,000	500	500	500	5,000

	10.8.3	Continue providing support to repair/maintenance of traditional stay places, cemetery house and so on	Lumpsum	7	200	1400	420	560	140	140	140	1,400
		Repairing and maintenance of Pati padheri in Ghandruk	Time	5	50	250	50	50	50	50	50	250
		Support the communities of Manang for Cemetery House	Time	1	150	150	150	-	-	-	-	150
		Sub total				10,300	3,170	4,010	1,040	1,040	1,040	10,300
Output	10.9	Capacities of women/socially marginalized groups are enhanced for their meaningful participation in the conservation of nature & culture in ACA										
Activities	10.9.1	Assist to organize training for the group management & organizational growth of women and socially marginalized groups	Lumpsum	7	600	4200	840	1,260	1,260	840	-	4,200
		Group management training Ghandruk, Jomsom, Lomanthang and Lwang	Group	18	39	702	281	211	70	70	70	702
		Leadership training (Ghandruk, Sikles, Lwang, Jomsom & Manang)	Group	23	42	966	385	290	97	97	97	966
		Admin and finance training for Mother's group in Ghandruk	Group	3	42	126	63	63	-	-	-	126
		Cooperative management traing	Group	50	38	1900	760	570	190	190	190	1,900
		Mother's group workshop in Manang	Group	8	20	160	80	80	-	-	-	160
		Record keeping and management training in Lwang	Group	6	33	198	99	99	-	-	-	198
		Women empowerment training in Bhujung, Ghandruk, Lwang, Manang	Group	32	46	1472	589	442	147	147	147	1,472
		Gender enhancement training in Sikles and Lwang	Group	5	40	200	40	40	40	40	40	200
	10.9.2	Assist groups/communities to diversify their IGA including microenterprise development, and enhance their skills & capacity for apple and Tora refinery, value added cereal and cash crop products, poultry and so on	Lumpsum	7	700	4900	980	1,470	1,470	980	-	4,900
		Anchoring training in Jomsom	Person	40	5	200	80	80	40	-	-	200
		Beauty Parlor training in Jomsom	Event	3	50	150	150	-	-	-	-	150
		Computer training in Jomsom	Event	1	100	100	100	-	-	-	-	100
		Cookery and tailoring training for women	HHs	4	25	100	50	50	-	-	-	100
		Tailoring training in Ghandruk, Jomsom,	Event	16	80	1280	256	256	256	256	256	1,280

		Manang & Sikles										
		Sewing and weavng training in Ghandruk, Jomsom & Lwang	Event	8	60	480	96	96	96	96	96	480
		Quality thread and cloth making training (Puwa) in Bhujung, Lwang & Sikles	Event	122	11	1342	270	270	270	266	266	1,342
		Thread coloration and knitting & weaving training	Event	7	52	364	73	73	73	73	72	364
		Weaving training in Lwang	Event	2	48	96	48	48	-	-	-	96
		Handicraft training in Ghandruk & Lwang	Event	6	60	360	144	108	108	-	-	360
		Carpet weaving training in Lwang and Manang	Event	2	125	250	250	-	-	-	-	250
		IGA training for women (Candle making, Agarbatti making, sedwing, painting, weaving) in Ghandruk & Bhujung	Event	13	55	715	143	143	143	143	143	715
		Capacity enhancement training in Ghandruk & Manang	Event	12	95	1140	228	228	228	228	228	1,140
		Apple refinery training in Jomsom	Event	1	150	150	75	75	-	-	-	150
		Cash crop production training in Manang & Sikles	Event	4	22	88	44	44	-	-	-	88
		Micro enterprise training for Aama Toli in Jomsom, Lomanthang and Lwang	Event	10	52	520	104	104	104	104	104	520
		Poultry farming training and post training support for Aama Toli in Lwang	Event	2	15	30	15	15	-	-	-	30
		Tora refinement training in Jomsom	Event	2	50	100	50	50	-	-	-	100
		Skill development training in Ghandruk & Lwang	Event	5	60	300	60	60	60	60	60	300
		Sub total				22,589	6,353	6,225	4,652	3,590	1,769	22,589
Output	10.10	Capacities of communities for climate adaptation is enhanced										
Activites	10.10.1	Build the capacity of CAMCs, UCOs and CCs and sub-committee through training for integrating their operation plans/actions in view of LAPA implementation jointly with local government	Event	20	150	3000	1,200	300	1,200	300	-	3,000
	10.10.2	Train communities to link climate adaptation and mitigation actions in the planning framework/actions of the local government to implement LAPA	Event	10	80	800	160	320	240	80	-	800
	10.10.3	Assist communities, local institution and local government to devise a mechanism for the fund investment, and provide fund to implement	Mechanism	1	50	50	50	-	-	-	-	50

		climate adaptation and mitigation measures in accordance to the provision of LAPA										
	10.10.4	Sensitize schools and assist them to incorporate climate issues in the curriculum of schools and extra-curricular activities of the students and teachers	Lumpsum	7	250	1750	350	350	350	350	350	1,750
		Climate change awareness to school teachers (General)	Event	14	30	420	84	84	84	84	84	420
		Climate change awareness in Ghandruk & Lwang	School	25	30	750	75	300	300	75	-	750
		Sub total				6,770	1,919	1,354	2,174	889	434	6,770
Output	10.11	Human resources/skill for repair/maintenance of health/sanitation work are in place at local level										
Activites	10.11.1	Continue support the sub-communities for the First Aid training and services	Event	10	50	500	100	100	100	100	100	500
	10.11.2	Continue support to women groups for health/nutrition, family planning, maternity & child care and so on	Lumpsum	7	500	3500	700	700	700	700	700	3,500
		Family planning (Bhujung), maternity & child care (all UCOs), nutrition (Sikles & Bhujung)}	Lumpsum	7	700	4900	980	980	980	980	980	4,900
		Sewage management committee in Ghandruk	Event	1	36	36	36	-	-	-	-	36
		Waste management in Ghandruk	Site	10	115	1150	345	690	55	30	30	1,150
		Cleanup and waste management campaign in Ghandruk and Manang	Event	33	64	2112	425	425	420	420	422	2,112
	10.11.3	Assist communities to build human resource for health services through scholarship for nursing study (25 nurses from 7 UCOs with priority to socially marginalized one)	Student	25	3000	75000	18,750	18,750	18,750	18,750	-	75,000
		Sub total				87,198	21,336	21,645	21,005	20,980	2,232	87,198
Output	10.12	Capacity of communities/groups is built up to undertake conservation & extension task in ACA										
Activities	10.12.1	Assist schools for effective conservation actions through observation/learning tour										
		Study tour to teachers and students (Sikles & Manang)	Event	7	75	525	105	210	158	52	-	525
		Study tour to 30 youth (Sikles)	Event	1	30	30	30	-	-	-	-	30
		Study tour to students (Jomsom)	Event	1	120	120	120	-	-	-	-	120
		Nature observation tour (Lwang, 7 schools)	Event	1	306	306	306	-	-	-	-	306
	10.12.2	Build the capacity of teachers for plan-based conservation education/extension										
		Training to the teachers (Lwang, Bhujung & Jomsom)	Event	5	200	1000	200	200	200	200	200	1,000

		Conservation awareness in Ghandruk and Jomsom	Event	8	65	520	156	208	156	-	-	520
	10.12.3	Support sub-committee to provide scholarship to economically disadvantage students, socially excluded groups, and girls' students	Lumpsum	7	400	2800	0	1,120	840	840	-	2,800
		Scholarship for economically disadvantage students (Ghandruk, Lwang & Bhujung)	Persons	100	25	2500	500	500	500	500	500	2,500
		Scholarship for girl students (Lwang)	mm	20	25	500	100	100	100	100	100	500
		Scholarship for socially excluded group (Dalit) (Ghandruk, Lwang, Manang & Jomsom)	mm	200	25	5000	1,000	1,000	1,000	1,000	1,000	5,000
		Sub total				13,301	2,517	3,338	2,954	2,692	1,800	13,301
		Total (10)				391,982	99,116	112,527	83,281	61,708	35,351	391,982
Outcome	11	Empowered management committees, that reflect the success of past and in consonance with the new federal structure, are functioning										
Output	11	Policy and institutional structure are reformed at regional and unit level for the conservation management of ACA										
Activities	11.1	Coordinate with the government to setup collaborative mechanism among central, provincial, and local government and existing strategy of NTNC	Meeting	20	25	500	100	100	100	100	100	500
	11.2	Provide feedback to the government for policy change and institutional reforms as required by the changing context	Meeting	10	10	100	70	30	-	-	-	100
	11.3	Identify the people's need, perception and demands on policy and institutional reforms as required by the changing context, and share experiences for policy implications	Workshop	2	60	120	60	60	-	-	-	120
	11.4	NTNC to continue technical backstopping in the post hand-over management of ACA	Year	5	3000	15000	3000	3000	3000	3000	3000	15000
	11.5	Provide Support for the environment monitoring	Lumpsum	1	8410	8410	3364	3364	841	420.5	420.5	8410
		Sub-total				24130	6594	6554	3941	3520.5	3520.5	24130
Output	11.2	Local institutions are independently capable to administer conservation area										
Activities	11.2.1	Continue administrative support to the ACA HQ & UCOs										
		Admin support (10 persons*13mm*5 year) ACA	mm	650	30	19500	3900	3900	3900	3900	3900	19500
		Admin support (10 persons*13mm*5 year) UCOs	mm	4550	20	91000	18200	18200	18200	18200	18200	91000
	11.2.2	Strengthen organizational management of capacities of UCOS, CAMCs and CCs										
		Equipement/Materials for UCOs (7)		7	700	4900	980	980	980	980	980	4900
		Equipement/Materials for CAMCs (57)		57	200	11400	2280	2280	2280	2280	2280	11400
		Equipement/Materials for CCs	Times	10	200	2000	400	400	400	400	400	2000
		Building for CAMC	Ft2	8000	3.2	25600	5120	5120	5120	5120	5120	25600

		Office secretary of CAMC	mm	3420	5	17100	3420	3420	3420	3420	3420	17100
		Miscellaneous		1	50	50	10	10	10	10	10	50
	11.2.3	Strengthen technical capacities of ACA, UCOs, CAMCs and CCs for planning, designing and implementing need-based programs and actions										
		Technical Support to UCOs	Times	20	500	10000	2000	2000	2000	2000	2000	10000
		Technical Support to CAMCs & CCs	Times	150	200	30000	6000	6000	6000	6000	6000	30000
		Technical Support to ACA	Times	20	500	10000	2000	2000	2000	2000	2000	10000
		Planning UCOs	Plan	7	175	1225	245	245	245	245	245	1225
		Planning CAMCs	Plan	1	150	150	30	30	30	30	30	150
		Planning CCs	Plan	57	200	11400	2280	2280	2280	2280	2280	11400
	11.2.4	Provide support for the formation CAMC and its Sub-committee in some UCOs, and support for auditing to all CAMCs										
		CAMC and CAMsc formulation in Lwang	Event	7	56	392	392	-	-	-	-	392
		Auditing for 57 CAMCs	Times	2	200	400	80	80	80	80	80	400
		Sub total				235117	47337	46945	46945	46945	46945	235117
Output	11.3	Sustainable financial mechanism for ACA is developed and practiced										
	11.3.1	Develop system for regular revise the current conservation fees from tourist	Event	2	75	150	75	-	75	-	-	150
	11.3.2	Facilitate processes to integrate PES mechanism in all conservation related trades and business including mining and hydropower development	Event	10	70	700	175	350	140	35	-	700
	11.3.3	Coordinate with government to harmonize budget allocation for mutual planning & actions	Event	10	25	250	50	50	50	50	50	250
	11.3.4	Continuously explore potential for availing new financial opportunities like REDD +, GCF etc.	Event	20	80	1600	160	480	480	320	160	1600
	11.3.5	Establish Program Development Unit in ACA with human & other resources for proposal development and monitoring of all intervention in ACA										
		Human resource	mm	130	60	7800	1560	1560	1560	1560	1560	7800
		Equipment/materials	Lumpsum	1	500	500	100	100	100	100	100	500
		Monitoring	Times	10	30	300	60	60	60	60	60	300
		Proposal development	Proposal	20	50	1000	200	200	200	200	200	1000
	11.3.6	Promote private sector engagement in green enterprises development & conservation partnership		7	350	2450	245	980	980	170	75	2450
		Sub total				14750	2625	3780	3645	2495	2205	14750
Output	11.4	Capacity of local institution is enhanced for the good conservation governance										
		Budget allocation under under cross-cutting Theme Capacity Building (10.1-10.7)										
		Sub total				-	-	-	-	-	-	-
		Total (11)				273997	56556	57279	54531	52960.5	52670.5	273997
		THEME TOTAL				665,979	155,672	169,806	137,812	114,668	88,022	665,979

Theme	No.	Title	Unit	Target	Rate	Total	Year (Budget in Thousand)					Total
							1	2	3	4	5	
Theme	8	Health & Sanitation										
Outcome	12	Community access to the facilities for health & sanitation enhanced at all levels as incentive for nature conservation in ACA										
Output	12.1	Infrastructure & facilities for the basic sanitations/basic hygiene are improved										
Activities	12.1.1	Backstop the CAMCs for preparing and implementing strategies and mechanism for sanitation and basic hygiene including One House One Tap scheme to optimize the use of drinking water	Code	1	400	400	80	80	80	80	80	400
	12.1.2	Provide support to the communities for conservation and maintenance of water heads to retain contamination free discharge of water	Lumpsum	10	500	5000	1,000	1,000	1,000	1,000	1,000	5,000
		Ghandruk	Site	13	200	2600	390	1,820	260	65	65	2,600
		Sikles	site	1	35	35	35	-	-	-	-	35
	12.1.3	Provide support to the community groups for extending the coverage of drinking water from new supply system and maintenance of old structures	Lumpsum	10	400	4000	800	800	800	800	800	4,000
		New drinking water supply, and maintenance of old structures (Ghandruk, Sikles, Bhujung, Lwang, Manang, Jomsom & Lomanthang)	Site	146	450	65700	26,280	32,850	3,285	1,645	1,640	65,700
	12.1.4	Provide support to the communities for the sanitary toilets and management of common bathroom										
		Construction and maintenance of toilet (Ghandruk, Sikles, Lwang, Manang, Jomsom and Lo-Manthang)	Bathroom	65	300	19500	7,800	7,800	1,950	975	975	19,500
	12.1.5	Assist communities to consolidated solid waste management following '3 R' principles such as Refuse, Reuse and Recycle	Lumpsum	10	300	3000	600	600	600	600	600	3,000
		Dustbin distribution in Bhujung, & Manang	Dust bin	320	0.6	192	96	96	-	-	-	192
	12.1.4	Provide support to the communities for the sanitary toilets and management of common bathroom										
		Construction and maintenance of toilet (Ghandruk, Sikles, Lwang, Manang, Jomsom and Lo-Manthang)	Bathroom	65	300	19500	7,800	7,800	1,950	975	975	19,500

	12.1.5	Assist communities to consolidated solid waste management following '3 R' principles such as Refuse, Reuse and Recycle	Lumpsum	10	300	3000	600	600	600	600	600	3,000
		Dustbin distribution in Bhujung, & Manang	Dust bin	320	0.6	192	96	96	-	-	-	192
		Rubbish bin in Bhujung & Manang	Dust bin	168	1	168	84	84	-	-	-	168
		Sewage disposable pits in Lomanthang, Manang and sikles	Pit	30	10.5	315	160	155	-	-	-	315
		Sewage drum in Jomsom	Drum	20	1	20	10	10	-	-	-	20
		Drainage in Bhujung, Ghandruk, Jomsom, Lwang, Manang and Sikles	Site	16	200	3200	1,280	1,440	160	160	160	3,200
		Sub total				104,130	38,615	46,735	8,135	5,325	5,320	104,130
Output	12.2	General health care facilities/services for communities/visitors in geographically difficult areas of ACA is improved										
Activities	12.2.1	Support communities to conduct health awareness camps program and to access health post for general health care and medicines	Lumpsum	7	500	3500	700	700	700	700	700	3,500
		Awareness camp on HIV/AIDS in Ghandruk, Bhujung, Lwang, Manang & Lomanthang	Event	50	5	250	50	50	50	50	50	250
		Health awareness program through health camp & health post (Ghandruk), health service/medicine (Manang & Mustang)	Event	20	50	1000	200	200	200	200	200	1,000
	12.2.2	Continue support for the emergency health services for communities & visitors	Lumpsum	7	600	4200	840	840	840	840	840	4,200
		Health services for communities & visitors in Lo-Manthang	Event	20	50	1000	200	200	200	200	200	1,000
		Sub total				9,950	1,990	1,990	1,990	1,990	1,990	9,950
Output	12.3	Health insurance mechanism is adopted & practiced as long term motivation to the communities in conservation of nature & culture in ACA										
Activities	12.3.1	Sensitize to the communities to access government scheme of the basic health care through the health insurance mechanism	Lumpsum	7	200	1400	280	280	280	280	280	1,400
	12.3.2	Provide subsidy to the ultra-poor communities to pay premium for the health insurance	HH	700	4	2800	560	560	560	560	560	2,800
		Sub total				4,200	840	840	840	840	840	4,200
Output	12.4	Human resources/skill for repair/maintenance of health/sanitation work are in place at local level										
Activities	12.4.1	Budget allocation in Capacity Building (10.11)										
		Sub total		-	-	-	-	-	-	-	-	-
		THEME Total (12)				118,280	41,445	49,565	10,965	8,155	8,150	118,280

Annex 20: Details of RM consultation

A. Rural Small Irrigation

Rural Municipality	Irrigation project name	Ward no.	CAMC	Village	Length (m)	Width (cm)	Beneficiaries HHs	Irrigated area (Ropani)	Estimated cost: Rs (X,000)	Length in public forest land (m)	Estimated tree no.	Main species	River name
Madi	Chipli khola irrigation and cleanliness project	6	Sildhujure	Chipli	500	30	500	400	10000	100	55	Uttis, Rakchan, Katus, Chilaune	Chipli
	Paranswara kholkek	2	Namarjung	Paranswara	200	30	500	500	10000	200	100	Uttis, Mallato, Mauwa, Rakchan, Katus	
	Narbu-Palchey	1	Parche	Sikles	300	30	300	1000	10000	150	50	Uttis, Chilaune, Katus	
	Jyadu-Syarchowk	3	Narmajung	Jyamdu	250	30	100	500	15000	50	50	Uttis, Katus, Chilaune	
Marsyangdi	Rajib irrigation	9		Pamchowk	3 km	100		300					
	Seraphant	9		Pamchowk	2 km			200					
	Basnetphant	9		Basnet thok	1 km			250					
	Subedigaun	9		Subedigaun tar				200					
	Tarapu, Pallotari lifting irrigation	3	Tarapu	Pallotari	100		50	300					Khudi khola

	Kabhre irrigaton	2	Thagai		500		65	150					Majkhola, Chedkhola
	Hawango khola irrigation	3	Thakan		3 km		60	250					Siusangkhol
	Roplephant	2	Ghanpokhara		900		120	300	6000				
	Modi	2			900		150	300	10000				
	Paiyunkhola	2			600		100	200	8000				
	Ghoptey	2			700		60	120	6000				
	Bhachey	2			800		150	300	10000				
	Thalobesi	1		Nayu	2000		70	200	10000	5	5	Katus, Uttis, Chilaune	Sodhe khola
	Fakaaibesi	1		Ghanpokhara/ Nayu	3000	100	160	450	30000				Nepche khola
	Raba	1		Ghanpokhara/ Nayu	4000	100	140	300	25000				Raba khola
	Pukro	1		Ghanpokhara/ Nayu	2000	100	80	200	20000				Phukro khola
	Chisapani	1		Ghanpokhara/ Nayu	2000	100	80	200	20000				Chisapani khola
	Taprokhola	4	Tagring		3000	500	200	1000	5000	300			

	Dhungban	4	Tagring		2000	500	150	500	4000	100			
	Raidu khola	4	Tagring		2000	500	200	1000	5000				
Khwolasothar	Keble khet	5	Pasgaun	Singdhi	5000	100	142	1965.65	5000	1000	50	Chilaune, Maletto	
	Undili khet	5	Pasgaun	Singdhi	3000	100	55	786.26	3500	2000	70	Chilaune, Maletto, Jhingana	
	Pyauro irrigation	6	Pasgaun	Pasgaun	3000	100	150	500	10000	3000	50	Katus, Uttis, Chilaune	Chaura khola
	Raghu tanmro	6	Pasgaun	Pasgaun	5000	100	150	601	2000	5000	150	Katus, Maletto, Chilaune	Byaro khola
	Ghamrang small irrigation	8		Ghamrang	150		70	400	2000				
	Bhoje irrigation	7		Bhoje	1000		101		2500		40		
	Kumlung irrigation	7		Kumlung	2000		57		2000		25		
	Lower chapai irrigation	7		Lower chapai	1500		65		2200		35		
	Pijer	3		Sogun	2.5		30	200	1000		50		
	Laise kulo	4	Bhujung	Bhujung				300					
	Khalijey kulo	4	Bhujung	Bhujung				350					
	Mayela kulo	4	Bhujung	Bhujung				300					
Chame	Pari chame irrigation	5		Pari chame	2500								
	Thanchowk irrigation	2		Thanchowk	1500								
Lomanthang	Hui irrigation	5		Lomanthang									
	Dhurang irrigation	5		Lomanthang									
	Suru irrigation	5		Lomanthang									
	Sijalu irrigation	1		Chhoser									

	Aarka khet	2		Aarka								
	Nyanol	2		Nyanol								
	Varcha khet	2		Varcha								
	Thingar khet	3		Thingar								
	Fuwa khet	3		Fuwa								
	Namgyaal	3		Namgyaal								
	Kimling	4		Kimling								
	Thangathan ka	4		Kimling								
	Nyamdok khet	4		Nyamdok								
	Chungjung khet	4		Chungjung								
	Chepole irrigation	1		chhoser								
Vargung Muktichhetrea	Tiri irrigation	4		Tiri								
	Kagbeni irrigation	4		Kagbeni								
	Yangling irrigation	4		Yangling								
	Lungbuk khola	5		Phalyak								
Gharphajong	Jomsom-Thini	5		Thini	5000		350	500	100000	5000		Kaisad khola
	Marpha - Dhawad	2		Marpha	5000		200	180	50000	5000		Raj khola
Lo-Ghekar Damodarkunda	Surkhang irrigation	4		Surkhang			1500					
	Ghiling irrigation	3		Ghiling			75					
	Dhey syaubari	5		Dhey			25	400				
	Tangya	5		Tangya			47	300				

	irrigation											
	Marang irrigation	1		Marang		46	800					
	Charang irrigaton	1		Charang		100	1400					
Thasang	Kharpang irrigation	2	Kobang	Kobang	2000	60	300	10000	1400	100	Salla	
	Dhungyang -Chayo	5	Kunjo	Chayo	1500	30	350	20000	1000	25	Salla	
	Taglung uppalo phant	5	Kunjo	Kunjo	2000	15	100	10000	2000	800	Salla	
	Ghasa irrigation	4	Ghasa	Ghasa	1500	80	200	10000	200	50	Salla	
	Pahiro thapla irrigation	4	Ghasa	Ghasa	500	10	20	5000				
	Lete kalopani irrigation	3	Lete	Lete, kalopani	5000	100	500	25000				
	Dhampu irrigation	3	Lete	Dhampu	3000	50	200	10000				
	Sauru irrigation	2	Kobang	Sauru	2000	30	600	10000				
	Jhodo irrigation	1	Tukuche	Tukuche	3000	121	10000	30000				
Annapurna (Myagdi)	Swara phant irrigation	4		Lek gaun								
	Patar irrigation	4										
	Gadpaar irrigation	4										
	Thorey swara irrigation	4										
	Chemdi irrigation	4										

	Bagar-Garakhet irrigation	4											
	Kopchepani irrigation	4											
	Thaku irrigation	4											
	Orange Pocket	6		Birauta	1500	100	45	200	50	100	250		
	Thulokhet Dhan kheti	6		Ghara	1000	100	25	70	45	90	150		
	Barrey ulleri	6		Ulleri	25000	100	80	90	200	100	200		
	Upalloswara	5	Sikha	Sikha			120			2000			
Machhapuchhre	Imkakhola Amichey-Taruwa-Tanje	8	Lwanghal el	Taurwa, Tanje	5000	1	200	500	60000	2.5	50	Uttis, Malato	Imkakhola
	Kudikhola-Kabhrebesi	1,3	Ghachowk		7000	1	400	2673	90000	3	120	Uttis, Malato	Kudikhola
Annapurna (Kaski)	Thotney khola rujare	6	Lumle		1000	1	500	2500					
	Dhotikhola dhawa irrigation	6	Lumle		1500	1	300	1500					
	Dhotikhola haijung	6	Lumle		800	1	150	500					
	Tomijungbesi irrigation	7	Lumle	Tomijung	2500		500	500					
	Hile irrigation	9		Hile irr			200	200	5000				
	Mauja irrigation	9		Mauja			100	100	5000				
	Bajgara sudame irrigaion	9		Bajgara			100	100	5000				
	Nayagaun irrigation	9		Nayagaun			300	300	5000				

	Thikyaan irrigation	10	Annapurna	Thikyaan	1000	1	100	100	1000				Sandhikhola/ Jyamekhola
	Killyu irrigation	10	Annapurna	Killyu	1000	1	100	100	1000				Kilyukhola
	Hudu irrigation	10	Annapurna	Hudu	1000	1	52	100	1000				Bhurgyukhola
	Chommrong irrigation	11	Ghandruk	Chommrong	1000	0.6	65	150	9000				Chommrong Ghatteykhola
	Matkyu irrigation	11	Ghandruk	Matkyu	1000	0.6	20	120	6000				Matkyukhola

B. Community Drinking Water

Rural Municipality	Project name	Wards	CAMC	Village	Distance from source to village (m)	Beneficiaries HHs	Main structures	Source river	Estimated cost Rs in (X,000)	Public forest length used in project (m)	Estimated tree no.	Main species	Remarks
Madi	Kyaku Khola Drinking water	8	Mijuredanda	Rabaidanda, Pakhrikot, Naghidhar, Chautari danda	400	800	Water tank, Pipeline and tap	Kyaku	10000	100	25	Chilaune, Katus, Uttis	Multiyear
Marsyangdi	Basnet thok Drinking water	9				70	Water tank, Pipeline	Muha	10000				
	Mahathok	9				250			20000				
	Simpani	9				100			250				
	Tarikuna Drinking water	3			3.5 km	41		Sisneri khola	5000				
	Budhabazar thagaibesi	3			1.5 km	70		Badarey khola	3500				
	Bhimrad	2		Ghanapokh	900	60		Dharapani	10000		100	100	Chilaune,

				ara									Uttis
	Bharcha	2			1 km	150		Phupluy u	15000				
	Mirdi	2			1 km	120							
	Ghanpokhara- Nayu	1		Ghanpokha ra-Nayu	8000	200		Nakoch ey	10000	4000	200	Kalikath	
	Frejo	1		Frejo	7000	160		Makaik hola	1000	2000	40	Uttis	
	Seney	1		Seney	4000	140		Kareyk hola	2000	4000	25	Uttis	
	Kallau besi	1		Kallau besi	2000	25		Thonde y khola	1500	500	20	Uttis	
	Bhitejagat	4	Tangring		1000	30	Tank, One house one tap	Pita	2000	500	50	Chilaune, Uttis	
	Rambazar	4			2000	35	Tank, One house one tap	Kharkh arey	3000	100	50	Chilaune, Uttis	
Khwolasothar	Singdhi united Drinking	5	Pasgaun		Singdhi	8500	242	Dovan khola		5000	6000	80	Katus, Maleto
	Pasgaun drinking water	6	Pasgaun	Pasgaun	5000	150	Pipe, Tank, Tap	Lede khola	2500	5000	25	Gurans,P halant,Ch anp	
	Tamu drinking water	8		Tamu	300	60	Pipeline		2500		100		
	Kumlung besi	7		Kumlung besi	200	90	Pipeline		2500		300		
	Bagum	3		Bagum	2500	100	Pipeline,Tank		5000	whole			
	Ghalegaun	3		Ghalegaun	20000	135	Pipeline,Tank	Syo ghewa	200000				
	Kyamro	4	Bhujung	Bhujung	3000	6							
	kyasi	4	Bhujung	Bhujung	1000	3							
	Sudi	4	Bhujung	Bhujung	1000	3							
	Chame drinking water	4		Chame	2000								
	Koto	3		Koto	2500								
	Thanchowk	2		Thanchow	1500								

				k									
	Timang	1		Timang	3000								
	Pari chame	5		Pari chame	2500								
Lomanthang	Kimling	4		Kimling									
	Nyamdok	4		Nyamdok									
	Chungjung	4		Chungjung									
	Thingar singhsaba	3		Thingar singhsaba									
	Korolla border			Korolla border									
Vargung Muktichhetra	Tongbe drinking water and irrigation	3		Tongbe									
	Chaile gaun	3		Chaile		12							
	Kagbeni												
Lo-Ghekar Damodarkunda	Charang-Marang	1			Charang	3000	150	BPT,Intacte,RV T, Tap	Marang khola				
	Dhey-Tangya	5		Dhey, Tangya	6000	57	BPT,Intacte,RVT, Tap						
	Yaraghara Di	4		Yara, Ghara Di	11000	84	BPT,Intacte,RVT, Tap	Dhyumi					
	Ghami Dhakmar	2		Ghami Dhakmar	6600	120	BPT,Intacte,RVT, Tap	Gyamo					
	Ghiling	3		Ghiling	8000	90							
Thasang	Kobang drinking water and sewage	2	Kobang	Khani, Sauru, Kobang, Nakung, Nyauriko t, Kokheythanti	6000	187	Intake, Pipeline, Reservoir etc.	Gurusan gbo	40000	3000			
	Kunjo	5	Kunjo	Kunjo	6500	70	Intake, Pipeline,	Panguu	10000	5000			

							Reservoir etc.						
	Ghasa	4	Ghasa	Ghasa	3000	80	Intake, Pipeline, Reservoir etc.	Kaiku	10000	3000			
	Lete drinkingwater	3	Lete	Lete, Kalopani, Dhampu	5000	130	Intake, Pipeline, Reservoir etc.	Lete	30000	3000			
Annapurna (Myagdi)	Gadpar drinkingwater	4		Narchyang	5000	250		Kaaldap	30000				
	Baskot drinkingwater	4		Narchyang	3000	150		Kaaldap	20000				
	Gharap drinking water	4		Narchyang	4000	150		Kaaldap	10000				
	Pokharebagar, Halleykharkha, Kurmuni and Baisari	6		Ghara	3000	150			8000	2000	200		
	Laahareni drinking water	5	Sikha	Pauduwar	10000	150	Main tank/ Reservoir	Lahareni	1000	6000			
Machhapuchre	Naneykhola drinking water	1,3	Ghachowk, Machhapuchre	Tusey, Ghachowk	5000	1000	Reservoir, Pipeline, Chamber	Naneykhola	10000	3000	350	Uttis, Malato, Chandan	
	Brihat Lwaghalel drinkingwater	8,9	Lwaghalel	Ghalel Kalimati, Lumrey	6000	1500	Reservoir, Pipeline, Chamber	Mardikhola, Nagikhola	10000	2000	200	Uttis, Malato,	
	Rokakhola drinking water	4,5	Ribhan, Lahachowk	Ribhan, Lahachowk	10000	1200	Reservoir, Pipeline, Chamber	Rokakhola	30000	6000	700	Uttis, Malato, Chandan, Khasru	
	Saripakha drinking water	1	Machhapuchre	Saripakha	4000	40	Reservoir, Pipeline, Chamber	Huthutey, Jaljala	5000	3000	150	Uttis, Malato, Chandan	
	Rumja Mirsa drinking water	1	Machhapuchre	Rumja, Mirsa	5000	110	Reservoir, Pipeline, Chamber	Dontha, Khulmaksi	8000	2000	200	Uttis, Malato, Chandan	
	Simley, Deurali,	1,5	Machhapuchre,		8000	20	Reservoir, Pipeline,	Lubruchu	10000	8000	800	Uttis, Malato,	Hoteliers

	Chchimley drinking water		Ribhan				Chamber				Chandan		
	Tarahill top drinking water	2	Sardikhola	Tarahilltop	3000	8	Reservoir, Pipeline, Chamber		3000	3000	200	Uttis, Malato, Chandan	Hoteliers
Annapurna (Kaski)	Baghmarey drinking water	6	Lumle		1500	150		Bhagma rey	2000				
	Laamkhoriya drinking water	6	Lumle		1000	25		Syaukh ola	1500				
	Dhotikhola Salyan ghunti kaurbot	6	Lumle		2500	200		Dhotikh ola	5000				
	Bhichuk drinking water	7	Lumle			78							
	Tanchowk drinking water	7	Lumle			67							
	Khaune Bhalabang aangbang drinking water	8	Dangsing		2500	88	Tank, Pipeline, and others	Ghorelung , Simrik	2000	2000		Uttis, Chilaune, Katus	
	Khiu drinking water	8	Dangsing				Tank, Pipeline, and others	Not fixed				Uttis, Chilaune, Katus	
	Gauribang drinkingwater	8	Dangsing	Gauribang			Tank, Pipeline, and others	Not fixed				Uttis, Chilaune, Katus	
	Sotrey Simalbot drinkingwater	9		Sotrey Simalbot		40		Muhan	5000				
	Banjgara drinkingwater	9		Banjgara		25		Muhan	3500				
	Hile drinkingwater	9		Hile		15		Muhan	5000				
	Mauja Drinkingwater	9		Mauja		35		Muhan	5000				
	Nepaney drinking water	9		Nepaney		18		Muhan	4000				
	Sabet drinking water	9		Sabet		50		Muhan	5000				
	Ulleri banthanti	9		Ulleri		200		Muhan	10000				

	drinkingwater			banthanti									
	Nangey thanti drinkingwater	9		Nangey thanti		15		Muhan	5000				
	Nayagau drinking water and cleanliness	9		Nayagau		50		Muhan	10000				
	Ghau drinking water	10	Annapurna	Ghandruk	2000	25	Tank, Pipeline, Tap	Chaney khola	1500	1000	20	Uttis	
	Kamche drinking water	10	Annapurna	Ghandruk	1000	18	Tank, Pipeline, Tap	Krui mul	1000				
	Nayagau, Taulu, Salafu	11	Ghandruk	Chommmrong- Salafu	2000	70	Tank	Yumlag khola	10000	1000	150		
	Ghandruk drinkingwater	1	Ghandruk	Ghandruk	3000	80	New strucuture	Ghiurik hola	10000	2500	200		
	Bronje drinkingwater	11	Ghandruk	Bronje	1000	7	New strucuture	Ghiurik hola	2000	200	50		

C. Trekking Trail

Rural Municipality	Project name	Ward	CAMC	Village	Trail Type	Trail Length (km)	Trail width (m)	Annual tourist facilitated	Estimated cost RS (X,000)	Estimated length of forest area (m)	Estimated tree no.
Madi	Tangting Karpu Kholasothar Heritage Trail	2	Namarjung	Tangting	Main	40	2	10000	>5000	30	200
	Sikles-Ti kharkha Trail	1	Parche	Sikles	Main	15	3	15000	2000	15	200
	Ti karkha-Kapuche	1	Parche	Sikles	Main	30	3	1000	2500	30	250
	Lamtari -Krapu	2,11	Saimarang/ Namarjung		Main	>15	3	3000	1500	15	200
	Krapu-Kholasothar	1,2	Namarjung		Main	15	3	2000	>1500	15	170
	Nagidhar-Sabhapokhari	8	Mijuredanda	Nagidhar	Main	10	3	5000	>1000	10	100
	Thak hill-Lamkhet-Tarahill	6	Sildhujure	Thak, Lamakhet	Main	>15	3	10000	>2000	15	300
Marsyangdi	Khudi-Bhalamchaur Ghalegaun Trail	9		Bhalamchaur		10	1.5		50000		

	Lamagaun kotkalika Trail	9		Lamagaun		5	1.5		20000		
	Dudhpokhari Trail	3			Main	15	3	600	5500		
	Bhakti thapa park	3			Accessory	10		700	2200		
	Harsingh danda	3			Accessory	12		700	3500		
	Dovan Bagaincha	3			Accessory	1.5		1000	2800		
	Pemro tourism development	2							20000		
	Ghanpokhara-dudhpokhari	1,2				20			100000		
	Thamro mahabhir	1							4000		
	Ghalegaun siurung trail					30			40000		
	Ghanpokhara-dudhpokhari-Manang	1,2		Ghanpokhara	Main	60					
	Ghanpokhara-Kaski	1,2			Main	60					
	Ghanpokhara-Bhujung-Pasgaun				Main						
	Ghanpokhara- Siusung	1,2			Accessory						
	Rambazar-Dudhpokhari	4			Accessory	100	1.5	500	20000	80000	100
	Chapa-Sayangye	4			Accessory	500	1.5	2000	5000		
Khwolasothar	Singdhi internal trail	5	Pasgaun	Singdhi	Main	4	1.5	5000	5000	3000	
	Singdhi Karpudanda	5	Pasgaun	Singdhi	Accessory	17	1.2	3000	4000	11000	120
	Singdhi Pailelanda	5	Pasgaun	Singdhi	Accessory	8	1.2	3000	2000	6000	25
	Pasgaun Bhujung	6	Pasgaun	Pasgaun	Main	10	2	5000	500	1000	100
	Pasgaun Karpudanda	6	Pasgaun	Pasgaun	Main	12	2	12000	10000	1200	300
	Pasgaun Taprang	6	Pasgaun	Pasgaun	Main	15	2	15000	12000	1500	350
	Tamu- Yangje tourism	8		Tamu		300	3	200	2500		200
	Upper charagaun -Hildu	7			Main	1.5	2	200	2000		
	Ghalegau-kola	3,1,4		Ghalegaun/Tangting	Main	100	3	20000	250000		
	Dudhpokhari				Main	100		10000	250000		
	Bhujung Dudhpokhari		Bhujung	Bhujung	Main	20					
	Bhujung kholasothar		Bhujung	Bhujung	Main	20					
	Bhujung-Tangting		Bhujung	Bhujung	Main	15					
Chame	Kajinsara	4		Chame		10	3	1000	50000		

Lomanthang	Lomanthang-kimling-Tatopani-Lomanthang	all		Lomanthang	Main	80	1.5				
	Mijikire to dhalla	5		Lomanthang	Accessory	3	1				
	Varcha to Samjung	2		Varcha, samjung	Main	21	1.5				
	Garphu gumba- Releasing gumba	1									
	Namasung to chojung gumba										
Vargung Muktichhetra	Ranipauwa-Tilicho	1									
	Thorak phedi- Thorang la pass	2									
	Nagley-Ghyakar	3									
	Ghyabad-Chussang										
	Golden hill trail	4									
	Jomsom-Dhyaksung	5									
Gharphajong	Marpha-Chimad-Tilicho	1,2,5		Marpha, chimad	Main	50	1.5	2000	20000	50000	500
	Jomsom- viewtower	4		Jomsom	Main	4	1.5	1500	60000	4000	
	Jomsom-Tukuche	1,2,3,4		Jomsom-Tukuche	Main	15	1.5	3000	30000	15000	
	Syad gau-Rachyud karkha-Chadphui	3		Syad	Main	35	1.5	1200	80000	35000	
Lo-Ghekar Damodarkunda	Ghami Dolpa	2		Ghami		15					
	Tangya-Narphu	5		Tangya		16					
	Dhey, Damodarkunda	5		Dhey		80					
	Tangya-Chusang	5		Tangya		30					

Thasang	Ghasa-Tukuche Digital board	All		All				200000	5000		
Annapurna (Myagdi)	Annapurna Base Camp trail	4		Narchyang	Tourist trail						
	Lekgaun-Chotepaha	4		Narchyang	Tourist trail						
	Besi-Lekgaun rele-Khopra	4		Narchyang	Tourist trail						
	Lekgaun-Baskot	4		Narchyang	Tourist trail						
	Baskot-Gadpar-Thulosuwara	4		Narchyang	Tourist trail						
	Gadpar-Garukhani-Melkharka-Dharam dhunga	4		Narchyang	Tourist trail						
	Gadpar-Kimalchaur-Bharani than-Lekgaun	4		Narchyang	Tourist trail						
	Thareysuwara-Garupani	4		Narchyang	Tourist trail						
	Chitre Kholabang	6		Ghara	Tourist trail	2	2			2000	
	Huka to Dharmadanda	6		Chitre	Tourist trail	10	2			5000	
	Pokharebagar-Hallekharka	6		Pokharebagar	Tourist trail	10	2			3000	
	Khibang-Kutuka	6		Khibang	Tourist trail	10	2			2000	
Machhapuchre	Saripakha-Saitighatta	1,9	Lwanghalel, Machhapuchre	Hile-Mesaram	Main	30	1.5	10000	70000	29	Gurans, Khasru, Uttis, Malato, Phirphirey
	Kochran-Karuwa	1,	Lwanghalel, Machhapuchre	Kochran, Pipar, Bunga	Main	20	1.5	5000	50000	19	Gurans, Khasru, Uttis, Malato, Phirphirey
	Bunga-Tiinsir	1	Machhapuchre	Bunga, Tinsir	Accessory	10	1.5	5000	25000	10	Gurans, Khasru, Uttis, Malato, Phirphirey
	Ribhan-Odhaney-Chchimley	5	Ribhan	Ribhan, Lakka, Odhaney	Accessory	6	1.5	3000	15000	5	Gurans, Khasru, Uttis, Malato, Phirphirey
	Ghalekharka- Tarahilltop	2	Sardikhola	Ghalekharka, Tarahilltop	Main	12	1.5	5000	30000	11	Gurans, Khasru, Uttis, Malato, Phirphirey

	Chyanglung-Namsung	2	Sardikhola	Chyanglung , Namsung	Main	7	1.5	2000	16000	6	Gurans, Khasru, Uttis, Malato, Phirphirey
	Kholapari Thando-Lakka	3	Ghachowk	Ghachowk, Lalka	Accessory	7	1.5	2000	16000	6	Gurans, Khasru, Uttis, Malato, Phirphirey
	Deurali-Lakka	4	Lahachowk	Deurali, Lalka	Accessory	5	1.5	2000	11000	4.5	Gurans, Khasru, Uttis, Malato, Phirphirey
	Mohora-Roka-Chichimley	5	Ribhan	Mohora, Chichimley	Accessory	4	1.5	1500	10000	3	Gurans, Khasru, Uttis, Malato, Phirphirey
	Pritamdeurali-Kokar-Lowcamp-Highcamp	7,8,9	Dhampus, Lwanghaiel	Kalimati, Highcamp	Main	20	1.5	50000	50000	20	Gurans, Khasru, Uttis, Malato, Phirphirey
	Kalimati-Kokar	8	Lwanghaiel	Kalimati, kokar	Accessory	3	1.5	3000	10000	2.5	Gurans, Khasru, Uttis, Malato, Phirphirey
	Lwang-Dudukharkha-Kokar	8	Lwanghaiel	Lwang, Tori, Kokar	Accessory	8	1.5	8000	20000	5	Gurans, Khasru, Uttis, Malato, Phirphirey
	Nagi-Kokar	8,9	Lwanghaiel	Nagi, Kokar	Accessory	3	1.5	3000	10000	2	Gurans, Khasru, Uttis, Malato, Phirphirey
	Bhimmjung-Lowcamp	9	Lwanghaiel	Bhimmjung, Lowcamp	Accessory	5	1.5	10000	12000	3.5	Gurans, Khasru, Uttis, Malato, Phirphirey
	Khanigau- Gopalkharka	7,8	Dhampus, Lwanghaiel	Khanigau, Gopalkharka	Accessory	5	1.5	1500	12000	4	Gurans, Khasru, Uttis, Malato, Phirphirey
	Tarahill top	2	Sardikhola								
	Kirku danda	2	Sardikhola								
	Tatopani kunda	2	Sardikhola								
	Namsung danda	2	Sardikhola								
	Kuibang-Chitreswara, Mohora	9	Lwanghaiel	Kuibang, Chitreswara	Accessory	2	1.5	1000	12000	1	Gurans, Khasru, Uttis, Malato,

											Phirphirey
Annapurna (Kaski)	Dhakey Sabjung trail	6	Lumle		Main	2	2	7000	6000		
	Kalikamai -Kanchi baraha	6	Lumle		Main	4	2	14000	10000		
	Kalikamai Homestay- Australian base camp	6	Lumle		Main	4	2	25000	15000		
	Birethanti-Chandrakot	6	Lumle		Main	4	2	30000	20000		
	Sorbange deurali thulakharka hiking and cycling	6	Lumle		Main	15	2	30000	10000		
	Pritam deurali forest camp Badal danda mardi himal basecamp trail	7	Lumle					10000			
	Landruk forestcamp	7	Lumle					7000			
	Tolka Gauda trail	7	Lumle					6000			
	Ghisrung to Besi patlakhet Majhgaun chandi alukhor pritam deurali trail	7	Lumle					7000			
	Sauney kuna hawadi bhachek trail	7	Lumle					4000			
	Thamdanda Tourism trail	8,9,10	Dangsing	Dangsing	Accessory						
	Thikheydung Ulleri Tourism trail	9		Tikheydhun ga ulleri	Main			20000			
	Nangeythanti narcho thamdanda trail	9		Nangeythant i narcho thamdanda	Accessory			10000			
	Ulleri Moharedanda tourism trail	9		Ulleri Moharedand a	Accessory			15000			
	Ulleri banthanti and nangeythanti toursim trail	9		Ulleri banthanti and nangeythant i	Main			30000			
	Banjgara hile tikheydhunga tourism trail	9		Banjgara hile tikheydhung a	Main			20000			

	Sabet thamdanda tourism trail	9		Sabet thamdanda	Accessory			5000			
	Syaulibazar ghandruk	10	Annapurna	Ghandruk	Main	3	1.5	100000	5000	1000	
	Kyume ghandruk	10	Annapurna	Ghandruk	Main	2	1.5	100000	3000	500	
	Thamdanda-Nadhey-Deurali-Ghandruk	8,10	Annapurna	Ghandruk	Accessory	8	1.5	1000	5000	8000	100
	Matkyu to Ghandruk	11	Ghandruk		Accessory	3	1.5	10000	2000		
	Niubridge to Komrong	11	Ghandruk		Accessory	5	1.5	10000	3000		
	Jhinudanda to taulu	11	Ghandruk		Main	2	1.5	10000	2500		
	Kimrongkhola to Durbin danda	11	Ghandruk		Main	2	1.5	10000	2500		
	Durbin danda to Taulu	11	Ghandruk		Main	1.5	1.5	10000	2000		
	Chommrong to Salafu to Ghurjung Siprong	11	Ghandruk		Main	5	1.5	10000	5000		
	Ghiurikhola to Komrong to Kimrong khola	11	Ghandruk		Main	5	1.5	10000	3000		
	Kaladanda to Ghandruk	11	Ghandruk		Main	1	1.5	10000	1000		
Nason	Tachai to Kuchumro Namgya Narpha bhumi	8	Nason		Alternative						
	North side Manaslu climbing	6									

D. Hotel in the public land

S.N.	Rural Municipality	Project name	Ward	CAMC	Village	Required hotel no.	Annual tourist facilitated	Estimated income Rs (X,000)	Remarks
	Madi	Sikles -Kapuche	1	Parche	Hagu, Kapuche, Nota	15	100000	20000	
		Sikles-Tasa-Kori	1	Parche	Tasa, kori	20	100000	30000	
		Ghaleykarkha-Tarahill-Ti-Sikles	1	Parche	Tarahill, Ti	20	30000	10000	
		Tangsing-Karpu-Tapre-Kholasothar-Kalitaal-Thulek	2	Namajung	Karpu, Tapre, Chomro,	20	10000000	700000	

					Kholasothar				
		Warchowk-Lamtari	11	Saimarang	Lamtari	5	2000000	10	
		Naghidhar-Sabupokhari	8	Mijuredanda	Sabupokhari	5	1500000	10	
	Marsyangdi	Khudi, simpani, Bhalamchaur , Ghalegaun trail	9		Bhalamchaur	10	1000	1000	
		Siusang Homestay	3			19	300		
		Harsingh campsite	3						
		Ghanpokhara-dudhpokhari-Manang	1,2						
		Ghanpokhara-Kaski							
		Rambazar-Dudhpokhari				15	500	1000	
	Khwolasothar	Singdhi Karpu danda	5	Pasgaun	Thalja	4	500	600	
		Singdhi pailedanda Tapro	5	Pasgaun	Paile, Rahu	8	800	1000	
		Pasgaun Iyamro danda	6	Pasgaun	Lyamro danda	3	2000	2000	
		Ghamrang trail	8		Ghamrang	30	1000	500	
		Kuprechohama							
		Ghalegaun-kola khola			Visa-kola khola	15	20000	50000	
		Bhujung Dudhpokhari	4	Bhujung	Uijo-chisa	15			
		Bhujung kholasothar	4	Bhujung	Haujo-kobara	10			
		Bhujung-Tangting	4	Bhujung	Sidhi	10			
	Chame	Kajinsara	4	Chame	Lamjung base camp	10	2000	20000	
	Gharphajong	Jomsom-Thini-Tilicho	4,5		Namu	2	2000	2000	
		Marpha-Dhawalagiri basecamp	2		Marpha	2	3000	3000	
		Jomsom-Yarujho viewtower	4,5		Yarujho	1	2500	1000	
	Lo-Ghekar Damodarkunda	Tangya-Chusang trail	5		Tangyako pa	1			
	Thasang	Sirkung-TT trail	2,5	Kobang,Kunjo	Sirkung, TT	2	1000	15000	
		Kalopani-Kalibaraha trail	3	Lete	Lete	2	300	10000	

	Annapurna (Myagdi)	Choteypaha	4						
		Humkhola	4						
		Sadhikharka	4						
		Bhuskot mela	4						
		Annapurna Base Camp	4						
		Reley kharkha	4						
		Bhalkhara	6		Kibang	2			
		Deurali	6		Ghara	1			
	Machhapuchre	Saripakha-Hile-Khumai-Kochran-Mesram-Saitighatta	1,9	Lwanghalel, Machhapuchre	Hile, Chichimley, Khumai, Kochran, Mesram	30	10000	90000	
		Kochran-Bunga-Pipar-Karuwa	1,9	Lwanghalel, Machhapuchre	Kochran, Pipar, Bunga	10	5000	30000	
		Bunga-Pipar-Karuwa	1	Machhapuchre	Bunga, Tinsir	5	5000	15000	
		Ribhan-Lalka-Odhaney-Chichimley	5	Ribhan	Ribhan, Lalka, Odhaney	3	3000	10000	
		Ghalekharka-Tarahilltop	2	Sardikhola	Ghalekharka, Tarahilltop	8	5000	25000	
		Chyanglung-Namsung	2	Sardikhola	Chyanglung, Namsung	3	2000	10000	
		Kholapari-Lalka	3	Ghachowk	Ghachowk, Lalka	2	2000	5000	
		Deurali-Lalka	4	Lahachowk	Deurali, Lalka	2	2000	5000	
		Mohora-Roka-Chichimley	5	Ribhan	Mohora, Chichimley	2	1500	5000	
		Pritamdeurali-Gopalkharka-Suire-Kokar-Lowcamp-Highcamp	7,8,9	Dhampus, Lwanghalel	Kalimati, Kokar, Lowcamp, Highcamp	120	100000	360000	

	Annapurna (Kaski)	Trail hotels Management	7	Lumle	Pothana, pritamdeurali, Mardi himal basecamp, Tolka					
		18 Public area hotels	9							
		Thamdanda-Nadhey-Deurali-Ghandruk	10	Annapurna	Thamdanda, Nadey, Deurali, Ghandruk	10	1000			
		Bhalachepark-Ghandruk	10	Annapurna	Ghandruk	2	100000			Tea shop
		Ghandruk Bhaishikharkha to Tadapani	11	Ghandruk		70	10000			
		Chaile, Tadapani, Banthanti to deurali	11	Ghandruk		25	10000			
		Tadapani to dobato and Ponde	11	Ghandruk		25	10000			
		Ponde-Chommrong	11	Ghandruk		30				
		Sinuwa to ABC	11	Ghandruk		34				
		Ghiurikhola to Bhaise kharkha	11	Ghandruk		10				
		Komrong danda to Tadapani	11	Ghandruk		13				

E. River Bed Materials

RM	Type of river materials	Point of collection	River name	Ward	CAMC	Village	Total river material (m ³)	Annual quarry possibility (m ³)	Estimated annual revenue Rs(X,000)	GPS Location (x) North	GPS Location (Y) East	Remarks
Madi	Stone, Sand, Gravel, Ballasts	Upwards from Jyamdu	Madi	1,2	Parche, Namarjung	Sodha, Setikhola, Chansu	8000		5000	28.2803	84.08838	Descimal
	Stone, Sand, Gravel, Ballasts	Matkyu, River banks of madi	Madi	1,2	Parche, Namarjung	Parche	20000	5000	1000	28.30628	84.08887	Descimal
	Stone, Sand, Gravel, Ballasts	Kalbandi area	Kalbandi	2	Namarjung	Tangting	5000	2000	700	28.333	84.115977	Descimal
	Stone	Podhukhola parche	Podhukhola	1	Parche	Parche	1500	1000	350	28.366009	84.124868	Descimal
	Stone, Gravel, Boulder		Phaharekhola	10, 8	Bhachok, Mijuredan dana	Bhachok, Nagidhar	1500	750	225	28.24979	84.167746	Descimal

Marsyangdi	Stone, Sand, Gravel	Khudi bank area	Khudi	9	Khudi, Simapani	Khudi, Simpani	1000	700	210	28.28233	84.353849	Descimal
	Stone, Sand, Gravel	Baigaincha area	Marsyangdi	9	Khudi	Khudi, Simpani	15000	12000	3000	28.279457	84.359725	Descimal
	Stone, Sand, Gravel	Andheri khola	Marsyangdi	3	Khudi	Tarikuna	3000	1000	20	28.288135	84.362895	Descimal
	Stone, Sand, Gravel	Jhairey khola	Marsyangdi	3	Khudi	Thakan, Arkhale	1000	500	10	28.288135	84.376189	Descimal
	Stone, Sand, Gravel	Khudi Bazar-Budhabazar	Marsyangdi	3	Khudi		35000	18000	3600	28.284605	84.361138	Descimal
	Stone, Sand, Gravel	Roplephant	Khudikhola	2	Ghanpokh ara	Ganpokhara, Ropleohant	5000	2500	500	28.301752	84.332321	Descimal
	Stone, Sand, Gravel	Rambazar	Marsyangdi	4	Taghring	Rambazar, Shrecha, Arkhalebenshi, Jagat	25000	20000	4000	28.371505	84.403474	Descimal
Khwolar	Stone Sand, Gravel	Rudikkhola	Rudikhola	5	Pasgaun	Singdhi, Pasgaun	12700	9000	1800	28.256197	84.212028	Descimal
	Stone, Sand, Gravel	Pagum	Midim	7, 8	Uttarkanya, Bhoje	Pagum, Khagun	12000	8000	1600	28.254924	84.280889	Descimal
	Stone, Sand, Gravel	Kumlung besi	Rodhikhola	7	Bhoje	Kumlung	7500	4000	800	28.256013	84.212159	Descimal
	Stone, Sand, Gravel	Sudidovan-Tarmati	Midim	4	Bhujung	Bhujung	15000	10000	2000	28.314621	84.258944	Descimal
Chame	Sand, Gravel, Ballasts	Salla ghati	Marsyangdi	2	Chame	Thanchowk	100000		350	235568	3160953	UTM 45
	Sand, Gravel, Ballasts	Koto	Marsyangdi	3	Chame	Koto	150000	50000	1000	235568	3160953	UTM 45
	Sand, Gravel, Ballasts	Purano chame	Marsyangdi	5	Chame	Purano chame	100000	100000	500	230483	3161439	UTM 45
	Stone	Ghattey khola	Thadokhola	4	Chame	Bich bazar	150000	50000	200	230147	3161330	UTM 45
	Stone	Timang	Timang khola	1	Chame	Timang	20000	5000	500	236797	3158276	UTM 45
Manang nisyang	Sand, Gravel, Ballasts	Talekhu	Marsyangdi	1				10000		228734	3161851	UTM 45
	Sand, Gravel, Ballasts	Sabjey khola	Sabjey khola	4,5						213172	3171364	UTM 45
	Sand, Gravel, Ballasts	Thorang khola bank	Thorang khola	6						207203	3175144	UTM 45
	Sand, Gravel, Ballasts	Marsyandi khola	Marsyandi khola	6						206908	3174922	UTM 45
	Sand	Tangtangyung sand quarry		5						212631	3172624	UTM 45
Gh	Stone, Sand, Gravel, Ballasts	Jomsom	Kaligandaki	4		Jomsom	5232000		80000	769237	3188250	UTM 45

	Stone, Sand, Gravel, Ballasts	Syang	Kaligandaki	3		Syang	800000	320000	37500	764600	3185469	UTM 45
	Stone, Sand, Gravel, Ballasts	Thini	Thini khola	5		Thini	100000	150000	5000	765775	3185609	UTM 45
	Stone, Sand, Gravel, Ballasts	Thini	Dhumba khola	5		Dhumba	20000	25000	2500	764658	3184511	UTM 45
	Stone, Sand, Gravel, Ballasts	Syang	Syang khola	3		Syang	25000	10000	3000	764608	3186730	UTM 45
	Stone, Sand, Gravel, Ballasts	Marpha	Marpha khola	2		Marpha	20000	15000	2500	763129	3183976	UTM 45
	Stone, Sand, Gravel, Ballasts	Chairro	Kaligandaki	1		Chairro	20000	20000	4304	762160	3182212	UTM 45
	Stone, Sand, Gravel, Ballasts	Marpha	Kaligandaki	2		Marpha	20000	5000	4304	762627	3183150	UTM 45
Waragung RM	Stone, Sand, Gravel, Ballasts	Eklebhatti	Kaligandaki	4		Eklebhatti				770436	3191603	UTM 45
	Stone, Sand, Gravel, Ballasts	Pandakhola	Pandakhola	5						770169	3189477	UTM 45
	Stone, Sand, Gravel, Ballasts	Kagbeni	Kaligandaki	3		Kagbeni				771332	3192740	UTM 45
	Stone, Sand, Gravel, Ballasts	Tiri	Kaligandaki	3		Tiri				771882	3195256	UTM 45
	Stone, Sand, Gravel, Ballasts	Thangbe	Kaligandaki	3		Thangbe				773218	3199330	UTM 45
Lo-Ghekar Damodarkunda	Stone, Sand, Gravel, Ballasts	Dhee	Dhi khola	5		Dhi		5000		789473	3222851	UTM 45
	Stone, Sand, Gravel, Ballasts	Charang	Charang khola	1		Charang				784245	3223406	UTM 45
	Stone, Sand, Gravel, Ballasts	Ghami	Ghami khola	2		Ghami				780014	3218187	UTM 45
	Stone, Sand, Gravel, Ballasts	Dhey	Dhey khola	5		Dhey				786750	3210600	UTM 45
	Stone, Sand, Gravel, Ballasts	Tangya	Tangya khola	5		Tangya				786094	3213171	UTM 45
Lomanthang	Stone, Sand, Gravel, Ballasts	Lomanthang	Lomanthang Khola			Lomanthang				787098	3232180	UTM 45
	Stone, Sand, Gravel, Ballasts	Chhoser	Lomanthang Khola			Chhoser				789072	3234960	UTM 45
	Stone, Sand, Gravel, Ballasts	Chhohup	Lomanthang Khola			Chhohup				786384	3232811	UTM 45
Thas an	Stone, Sand, Gravel, Ballasts	Dhampu	Kaligandaki	3	Lete	Dhampu	2000000		20000	753758	3172435	UTM 45

	Stone, Sand, Gravel, Ballasts	Thapakhola	Thapakhola	1	Tukuche	Tukuche	100000	200000	500	758068	7138801	UTM 45
	Stone, Sand, Gravel, Ballasts	Chokhopani khola	Chokhopani khola	1	Tukuche	Tukuche	200000	10000	500	760039	7178999	UTM 45
	Stone, Sand, Gravel, Ballasts	Boksikhola	Boksikhola	2	Kobang	Kobang	100000	10000	500	754455	3175476	UTM 45
	Stone, Sand, Gravel, Ballasts	Tama khola	Tamkhola	2	Kobang	Kobang	100000	10000	300	756769	3176338	UTM 45
	Stone, Sand, Gravel, Ballasts	Chhaktang Khola	Chatang khola	2	Kobang	Kobang	100000	5000	300	753145	3173523	UTM 45
	Stone, Sand, Gravel, Ballasts	Pangbukhola	Pangbukhola	5	Kunjo	Kunjo, Chayo	200000	5000	300	756507	3170098	UTM 45
	Stone, Sand, Gravel, Ballasts	Letekhola	Letekhola	3	Lete	Lete	200000	5000	300	755374	3169666	UTM 45
Anna purna (Myagdi)	Stone, Gravel, Ballasts	Machakhola Bagar	Kaligandaki	4	Narchyang	Gadpar	20000	10000	600	28°31'12.44"	83°39'37.34"	DMS
	Stone, Gravel, Ballasts	Cherka Bagar	Kaligandaki	4	Narchyang	Gadpar	20000	10000	600	28°32'04.45"	83°39'07.26"	DMS
	Stone, Gravel, Ballasts	Gharap Bagar	Kaligandaki		Narchyang	Gadpar	20000	10000	600	28°32'19.06"	83°39'09.05"	DMS
	Stone, Gravel, Ballasts	Mristi khola	Mristikhola	4	Narchyang	Narchyang	20000	10000	600	28°30'54.33"	83°39'38.75"	DMS
	Stone, Gravel, Ballasts	Kurila Bagar	Gharkhola	5	Sikha/Ghar	Gadpar	4000	2000	120	28°27'9.99"	83°39'51.75"	DMS
	Stone, Gravel, Ballasts	Mahabhir to Pokharebagar	Kaligandaki	6	Ghar	Ghara	20000	10000	600	28°28'48.458"	83°38'31.61"	DMS
	Stone, Gravel, Ballasts	Kurila Bagar Bethikhola	Gharakhola	6	Narchyang	Ghara	4000	500	120	28°31'12.44"	83°39'37.34"	DMS
Machhapuchhre	Stone, Gravel, Ballasts	Patikhola area	Patikhola	5	Ribhan	Ribhan, Kiley	6000	3000	954	28.315555°	83.911646°	DD
	Stone, Gravel, Ballasts	Paukhola, Lumrey	Paukhola	8,9	Lwaghale I	Lumrey, Koleli	9000	4500	1431	28.352198°	83.87979°	DD
	Stone, Gravel, Ballasts	Upper Idikhola bank	Idikhola	7,8	Dhampus	Idikhola	3500	1750	556	28.322093°	83.879813°	DD
	Stone, Gravel, Ballasts	Parthey area	Kharey khola	5	Ribhan	Parthe, Humdi	7000	3500	1113	28.329491°	83.893515°	DD
	Stone, Sand, Gravel, Ballasts	Nayapul-Lumre section	Mardikhola	5,8,9	Ribhan, Lwaghale I	Lumrey, Parthe	25114.2	12557.1	3104	28.333399°	83.889667°	DD
	Stone, Sand, Gravel, Ballasts	Mardikhola, Saitikhola dovan	Saitikhola	8,9	Lwaghale I	Saitighatta, Kuibang	2000	1000	318	28.363056°	83.881124°	DD
	Stone, Sand,	Ghachowk ghat	Seti	2	Ghachowk	Ghachowk	7395	3697.5	914	28.30776°	83.94823°	DD

	Gravel, Ballasts, Boulder											
	Stone, Sand, Gravel, Ballasts, Boulder	Chinteybagar Ghat	Seti	2	Sardikhola	Bhujrung khola	19716	12000	754	28.331724°	83.95635°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Dawadibagar ghat	Seti	3	Ghachowk	Ghachowk	10468	5234	1293	28.30910°	83.95245°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Ratopani ghat	Seti	2	Sardikhola	Bhujrung khola	11678	5839	1443	28.32283°	83.95778°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Machhapuchre ghat	Seti	1	Machhapuchre	Tusey, Dhiprang	26981.4	13490.7	3334	28.33133°	83.95902°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Sardikhola ghat	Sardikhola	2	Sardikhola	Khadarjung, Bhujrungkhola	12880	6440	1592	28.34320°	83.962452°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Chaurachipte ghat	Seti	2	Sardikhola	Chaura, Chipleti	16034	8017	1981	28.339281°	83.95705°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Mirsa chebang ghat	Seti	1	Machhapuchre	Dhiprang, Mirsa, Karuwa	8078	4039	998	28.36260°	83.96353°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Karuwa ghat	Seti	1	Machhapuchre	Karuwa, kapuche	7288.5	3644.25	900	28.36589°	83.96695°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Dobilla ghat	Seti	2	Sardikhola	Bhurjungkhola	1600	1000	246	28.30661°	83.94776°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Dhawa ghat lower to ratopani pul	Seti	2	Sardikhola	Bhurjungkhola	3940	2500	500	28.30871°	83.95131°	DD
	Stone, Sand, Gravel, Ballasts, Boulder	Sissaughari ghat	Seti	2	Sardikhola	Bhurjungkhola	6000	4500	900	28.32982°	83.95928°	DD
	Stone Gravel, Boulder	Dalam Meprang ghat	Sardikhola	2	Sardikhola	Khadarjung, Chyanglung	2000	1000	200	28.34777°	83.98717°	DD
	Stone Gravel, Boulder	Sardikhola chetradip machhapalan ghat	Sardikhola	2	Sardikhola	Khadarjung, Chyanglung	2500	1200	240	28.34598°	83.97765°	DD
	Stone Gravel, Boulder	Dhiprangkhola area	Dhiprangkhola	1	Machhapuchre	Dhiprang, Tusey	3300	1650	524	28.35429°	83.95773°	DD
Am	Sand	Chimrung ghat	Modikhola	8	Dangsing	Chimrung, Syaubilazar	600	300	150	28°19'30.31"	83°47'36.49"	DMS

	Stone, Sand, Gravel, Ballasts	Birethanti to Chimrongkhola	Modikhola	7,8	Lumle, Dangsing	Birethanti	1200	600	300	28°194.19"	83°47'6.97"	DMS
	Stone, Sand, Gravel, Ballasts	Sadikhola - Koltebhatti	Modikhola	10	Ghandruk	Syauli	1000	500	1000	28°2023.66"	83°48'10.01"	DMS
	Stone, Sand, Gravel, Ballasts	Kimrongkhola	Kimrong Khola	11	Ghandruk	Kimrongkhola	1000	500	250	28°2416.53"	83°49'32.68"	DMS
Nason		Tal to Danaque					100000					
							10309473.1	1254408.55	217408			

F. Village Roads

Rural Municipality	Project name	Ward	Village	Length (km)	Width (m)	Beneficiaries HH	Projected cost Rs in (X,000)	Length in public forest area (Km)	Projected tree number	Main species
Lo-Ghekar Damodarkunda	Ghami, Dhakmar, Gharghumba Marang Charang	1,2	Ghami, Dhakmar, Gharghumba Marang Charang	50	6	350				
	Charang D, Sukharang, Ghara, Yara, Ghara, Luri to Damodarkunda	1,4	Charang D, Sukharang, Ghara, Yara, Ghara	100	5	300				
Gharpajhong	Marpha-Dhamang Alubari to way to Dhawalagiri Basecamp	2	Marpha	15 km upgrade 35 km new	5	120	250000	50	500	Salla
	Jomsom-Thini-Namukh lek to Mesokanto	5	Thini	12 km upgrade	5	200	180000	35	200	Salla
	Chairo-Chimad Agricultural Road	1	Chimad	5	5	150	50000	5	50	Salla
Varagung Muktichhetra	Kagbeni-Jhong -Muktinath Road upgrade	1,2,4	Kagbeni Muktinath	14		255				
	Ghyakar Road construction	3	Gyakar/ Samar	2		202				
	Tetang Jhong Road construction	2,3	Tetang	9		151				
	Chambak Road construction	3	Chusang			215				
	Muktinath -Kagbeni Buspark	1,4	Ranipauwa kagbeni			393				

	extension									
Lomanthang	Nyanol-Varcha-Dhuk- Nechung customs Road upgrade	1,2	Chhoser	6.698	8	320				
	Namasung-Samjung Road upgrade	2	Samjung	21.5	7	100				
	Samjung to Setarekh lek Road upgrade	2	Samjung	11.86	7	30				
	Dhaktaarn-Namgyaal, Fuwa, Kimling Road upgrade	3,4	Namgyaal, Fuwa, Kimling	4.59	8	150				
	Lomanthang to Charang to Chhojung Ghumba	5	Lomanthang							
	Dhalla to Lomanthang Road upgrade	5	Lomanthang							
	Lomanthang to Ghyaga Road upgrade	5	Lomanthang							
	Ghyaga-k-Cap-Dolpa	5	Lomanthang							
	Thulung Army camp-Karak lek Road upgrade	5	Lomanthang							
	Lomanthang to Karak lek Road upgrade	5	Lomanthang							
	Lomanthang Dhokpo lo Bridge to Dhalla	5	Lomanthang							
	Ward office to Jhong cave Road upgarde	1	Chhoser							
	Sijalu Road construction	1	Chhoser							
	Chorrtan Kangtey to Jhong cave Road construction	1	Chhoser							
	Varcha to Kanchokeling Ghumba Road upgrade	2	Chhoser							
	Fuwa-Samdeling Cave Road construction	3	Fuwa							
	Namgayaal- Madaringma Road upgrade	3,5	Namgayaal- Madaringma							

	Thingar to Aamkarma Road construction	3	Thingar							
	Thingar Ghyaga Road upgrade	3	Thingar							
	Fuwa- Thingar-Terathang Road construction	3	Fuwa, Thingar							
	Thingar kahptey Dhorkey Duchorak Dhaknak Cave Road construction	3	Thingar							
	Kimling bridge to Kimling village Road upgrade	4	Kimling							
	Chungjung Dhamela Road upgrade	4	Chungjung							
	Chungjung to Jhiu lek Road construction	4	Chungjung							
	Chhoser Healthpost to Varcha Road construction	2	Varcha							
	Aarka to Varcha Road upgrade	2	Aarka , Varcha							
Chame	Prabhu bank chowk- Mada Road	4	Chame	1	6		5000			
	Old Malpot-Lok piya Ma. Bi.	4	Chame	0.7	6		4000			
	Gaireegau-Yanchowk Road	2	Thanchok	0.5	6		5000			
	Timang chowk road	1	Timang	3.5	6		30000			
	Koto chitap road		Koto	0.5	6		10000			
Manang Nisyang	Pisang Ghyaru Nagwall Mungji Road section			30	4	300	100000	20m	200	Salla
Khwola-sothar	Bhujung-Pasgaun Road upgrade	4	Bhujung	25		362				
	Dhangrebesi-Totusu Road construction	4	Bhujung	15		362				
	Bhujung-Chiyan Dada Komakho Road construction	4	Bhujung	10		362				
	Kadelu-Bagum	3	Bagum	3		100	50000		150	
	Kubheru-Phulamro-Khogum	3	Bagum	5		70	100000		200	
	Bagum-Sogum	3	Bagum	7		225	200000		150	

	Bhakre Goth-Hawane Road construction and upgrade	7	Upper Charagoth	45		350	10000	40	1005	
	Ghamrang to Tamu	8	Tamu	0.3	4	60	6000		200	Uttis
	Hawane-Khopro danda	6	Pasgaun	11	6.1	150	2500	11	600	Uttis
	Nhyapro danda to pale	6	Pasgaun	10	6.1	150	5000	10m	1000	Gurans
	Pasgaun, singdi Road upgrade	6	Pasgaun	7	8	350	3000	8m	600	Uttis,Chilaune,Katus
	Pasgaun, Bhujung Road upgrade	6	Pasgaun	16	8	540	5000	16	900	Uttis,Chilaune,Katus
	Pasgaun, Ghamrang Road upgrade	6	Pasgaun	8	8	400	3000	8	700	Uttis
	Singdhi to Karpu danda	5	Singdhi	16	6	242	1600	13	500	Uttis,Chilaune,Katus
Marsyangdi	Kaladhiring Sildudhunga	4	Kaladhiring Sildudhunga	10	7	200	20000	5	2000	Uttis, Salla, Okhar
	Chapa road	4	Chapa	4	7	200	8000	0.5	200	Uttis,Chilaune
	Chyamche- Old jagat road	4	Chyamche	2	7	100	5000			
	Upper pangring-kopro lek tourist road	4	50	7	564	50000	45	15		Salla, Gurnas
	Syange Road upgrade	4	30	7	68	3000				
	Ram bazar- sildudhunga- pangring	4	Rambazar	7	7	500	10000	3	50	Uttis,Chilaune,Katus
	Ghanpokhara-Nayu to Kallo besi	1	Ghanpokhar-Nayu	12	6	280	10000	3	70	Uttis,Chilaune,Katus
	Ghanpokhara-Nayu to Koto	1	Ghanpokhar-Nayu	19	6	280	20000	1	5	Uttis,Chilaune,Katus
	Nayu- Ghanpokhara	1	Ghanpokhar-Nayu	1.5	6	170	10000		30	Uttis
	Kafaldanda- Sete	1	Ghanpokhar-Nayu	3	6	170				Uttis,Chilaune,Katus
	Kafal danda to Begum	1	Ghanpokhar-Nayu	3	6	170				
	Dhimrau ghoptey road	2	5	6	200	10000	1 km	200		Uttis,Chilaune

	Paiyunkhola road	2	1.5	6	250	4000				
	Roleyphant road	2	6	6	250	10000				
	Probi road	2	4	6	150	5000	1 km			
	Roleyphant- Nasardanda road	2	5	6	400	20000				
	Top-puranogaun Jimdu road	3		25	6	50		20		
	Khudi-Siurung road	3		29	6	250				
	Dagai- Deurali road	3		20	6	70				
	Budha bajar- Bhakti Park	3		1.5	6	60				
	Lamagaun road	9	Lamagaun	50	5	200	2000			
	Mirche to Segley road	9		3			1500			
	Simpani Path	9		25	6	700	500000			
	Khudi Simpani Ghalegaun	9		16	6	300	350000			
	Khusi Pamchowk Bhalamchaur	9		12	6		240000			
	Khudi Lamagaun	9		10	6		200000			
	Ramji Basaha road	9		2	6		40000			
	Mahatyok Bhirmuni road	9		1	6		10000			
	Segley Bharmaram road	9		1			10000			
	Sera kalika temple road	9		3			60000			
	Yar subedi village road	9		1			10000			
Madi	Sodha- Khilang Agricultural Road	1	Khilang	5	7	500	25000	2.5	200	Uttis,Katus,Chilane, Rakchan
	Bhachowk- Lamtari road	10	Bhachowk	5	7	500	38000	5	450	Uttis,Katus,Chilane, Rakchan
	Thulodhunga- Lamtari road	10	Bhachowk	5.5	7	500	38000	5.5	500	Uttis,Katus,Chilane, Rakchan
	Ramche-Yangjakot road	12	Thumako danda	6.5	7	500	10000	4	300	Uttis,Katus,Chilane, Rakchan
	Ghaymarang-Setikhola rohi road	2	Namarjung	7.5	7	700	10000	5	100	Uttis, Rakchan
	Tangting-Kupru-Chumro-Kori	2	Tangting	25	7	300	30000	25	3500	Uttis,Katus,Chila

	Road									une, Rakchan
	Rudi-Simar Road	8,9	Rudi	10	7	500	50000	8	200	Uttis,Katus,Chilane, Rakchan
	Yangjakot-Kapu road	3	Yangjakot	16.5	7	300	50000	16.5	2000	Uttis,Katus,Chilane, Rakchan
	Thumsikot-Makaikhola-Bhachowk road	10	Bhachowk	10	7	500	50000	7	500	Uttis,Katus,Chilane, Rakchan
	Bhagwati-Lamtari road	10	Bhachowk	9	7	600	100000	9	400	Uttis,Katus,Chilane, Rakchan
	Bhagwati-Khimaji-Warchowk road	11	Warchowk	9	7	600	50000	5	300	Uttis,Katus,Chilane, Rakchan
	Sabi-Chansu-Bhedikarkha road	6	Sabi	7.4	7	600	50000	4	150	Uttis,Katus,Chilane, Rakchan
	Sondha-Sikles road	1	Sikles	7	9	1000	200000	3	60	Uttis,Katus,Chilane, Rakchan
	Nagidhar-Sabupokhari to Siddhathan road	8	Nagidhar	10	7	400	20000 +	7	200	Uttis,Katus,Chilane, Rakchan
	Sikles buspark to Mafu road	1	Sikles	1.2	7	316	30000	300	31	Uttis
	Markey-Mahabhir Road	3	Yangjakot	1.5	7	130	2000	50	90	Uttis
	Sodha-Nayagaun- Khilang road	1	Khilang, Nayagaun	4	7	200	50000	2	180	Uttis, Rakchan
	Parche ground road	1	Parche	2	7	110	10000	1.5	200	Uttis, Rakchan
	Buspark- Mul kboibho	1	Sikles	3	7	350	20000	500	18	Uttis, Rakchan
	Chansu-Bhedikarkha road	6	Chansu	6	7	200	40000	3	400	Uttis, Rakchan
	Jyamdu-Yangjakot road	3	Jyamdu & Yangjakot	5	7	150	50000	2	300	Uttis, Rakchan
	Bhagwat Lamtari	10,11	Bhachowk	9	7	200	60000	4.5	300	Uttis, Rakchan
	Saimarang- Tasi	11	Saimarang	4	7	200	30000	2	250	Uttis, Rakchan
	Thumsikot-Bhachowk	10	Bhachowk, Makaikhola	4	7	100	30000	1	130	Uttis
	Makaikhola- Chelang	10	Makaikhola, Chelang	4	7	150	30000	1	175	Uttis
	Mungribesi-Gorje	9	Mungribesi, Gorje	7	7	200	50000	2	400	Uttis
	Ghatey-Mijure road	9	Ghatey & Mijure	9	7	200	30000	1	300	Uttis

Thasang	Kokheythanti-Sauru road	2	Sirkud,Sauru	5	10	50	120000	5	200	Salla
	Kobang kharbad agricultural road	2	Kobang	3	5	80	2000	1.5	50	Salla
	Ghatteykhola, Naurikot,Larjung road upgrade	2	Kobang	4	10	187	40000	4	50	Salla
	Khanti, Nasarng road upgrade	2	Kobang	2	5	187	20000	2	50	Salla
	Ward office to Dheychu road upgrade	5	Kunjo	3	5	150	30000	2.	50	Salla
	Kunjho panggu kuna road	5	Kunjo	3	5	150	30000	2	300	Salla
	Chayo to jhipra deurali to chyachu	4,5	Kunjo	5	5	170	50000	4	200	Salla
	TT to leku road	5	TT	2	5	70	10000	2	200	Salla
	Larkayo danda-Nupsad karkha-chokhapani road	5,2,1	Dhampu-Chokhapani	25	7.5	130	20000	5	800	Salla
	Jhongo agricultural road	1	Tukuche	7	7.5	121	30000	5	50	Salla
	Tukuche kyupardhyang road upgrade	1	Tukuche	3	5	121	10000	2	100	Salla
	Upper Ghasa to lower ghasa	4	Ghasa	2	5	80	10000	0.5	50	Salla
	Dhumpu kokheythati road	3	Lete	4	7.5	70	20000	4	20	Salla
Annapurna (Myagdi)	Besi-Lek gaun motor	4	Narchyang							
	Patar-Gharap-Gadpar-Kopchepani	4	Narchyang							
	Baskot-Malarani-Humkhola	4	Narchyang							
	Gharkhola Nepane Pauduwar kindu swat	5	Pauduwar	9	6	200		6		Uttis
	Chitre Ghorepani	6	Chitre	15	2	57	100	15		Laligurans
	Pokharebagar Chitre	6	Ghara	2.5	2	150	150	2		Chilaune,Uttis
	Khibang mahabhir Kutuka Ghorepani	6	Khibang	5	8	105	50	2.5		Laligurnas
	Birauta to Korpakha	6	Ghara	2	6	100	30	2		Uttis, Salla
Machhapuchre	Lumre-Ghalel-Kalimati-Bhimjung-Sidhing-Saitighatta-Lumre	8,9	Ghalel, Kalimati, Bhimjung, Nagi, Sidhing, Saitighatta, Kuibang	14	7	1200	501899	5	300	Uttis,Mawa, Malato

	Lumre-Tanje-Taruwa-Koleli	8	Koleli Taruwa	7	6	350	250999	2	230	Uttis,Mawa, Malato
	Ghalel-Keshbang-Mardibang	8,9	Keshbang	2.5	6	100	89607	0.5	50	Uttis,Mawa, Malato
	Siu-Tori	8	Dhikla, Tori	3	6	50	107528	1	150	Uttis,Mawa, Malato
	Kalimati Upallo Marga	8	Kalimati	2	6	60	71685	0.3	30	Uttis,Mawa, Malato
	Lumre-Phalamkhani-Tanje	8	Phalamkhani	3	6	60	107528	1	50	Uttis, Mauwa, Malato
	Khoramukh-Thutungey-Lwang	8	Uppalo Khoramukh, Thutunge, Lwang	4.1	6	150	146955	1.5	200	Katus, Chilaune, Uttis
	Koleli-Ghalel	8,9	Koleli, Ghalel	4.5	6	140	161292	2.5	250	Uttis, Malato
	Kuibang-Mohora-Dandagaun rivan	5,9	Kuibang,Mohora,Dandagaun	8	6	200	286742	3	350	Chilaune, Uttis, Katus, Malato
	Patikhola-Annadathanti-Hydropower	5	Kiley, Annadathanti, Humdi, Parthey	11	8	350	394270	2	70	Chilaune, Uttis, Katus, Malato
	Lekkuna-Khurpekhola-Pothana	7	Lekkuna, Pothana	4	6	80	143371	2	150	Chandan, Gurnas, Uttis, Khasru
	Mulpani-Jhegreydanda	7	Deurali, Jhagrey	2	6	60	71685	1	100	Uttis, Malato, Chilaune
	Bhantthar-Deurali	4	Armala, Bhantthar, Lahachowk	4	6	120	143371	2.5	250	Katus, Chilaune, Uttis
	Haleychautara-Chanaute-Damdamey haleyswara	3	Tallo Ghachowk	8	6	500	286742	2	300	Chilaune, Uttis, Katus, Malato
	Tusey-Ghamtara-Saripakha-Tubu hilekharkha	1	Tusey, Saripakha, Ghamtara	12	6	200	430113	6	800	Phirphirey, Uttis, Malato, Chilaune
	Tatopani-Chibang-Karuwa kupuche-Sadal	1	Dhiprang, Mirsa, Karuwa, Kapuiche, Sadal	7	6	160	250899	2	100	Uttis, Malato, Chilaune
	Tatopani-Bharibhari-Kabhre-Chyanglung	2	Bharibhari, Kabhre, Chyanglung	10	6	130	358428	5	500	Uttis, Malato
	Chayam-Kaltha-Chamendra	9	Kaltha, Purumdhum	3	6	70	107528	1	100	Uttis, Malato

	Takro-Adhiprumba-Aalengey khola	9	Takro	8	6	50	286742	4	300	Uttis, Malato
	Lumre-Phalamkhani-Olchey-Thanti	8	Lumre, Phalamkhani, Olchey, Thanti	3	6	60	107528	0.5	50	Uttis, Malato
	Purano ribhan-Odhaney	5	Ribhan	5	6	30	179214	4	600	Chandan, Lauthsalla, Malato
	Chibang-Mirsa-Rumja	1	Mirsa, Rumja	5.052	6	110	249779	1	50	Uttis, Malato
	Bhujrungskhola-Ghalekharka-Khaimarang-Hydrodam-Meprang-Chyanglung-Chaura	2	Khadarjung, Ghalekharka, Khaimarang, Hydrodam, Meprang, Chyanglung	13.615	6	300	604780	3	120	Uttis, Malato
	Barbot-Khorapani Rural Road		\	0.975	6	50	40064	0.3	30	Katus, Chilaune, Uttis
	Bhandari chowk-Bhatthar-Pahele-Bhirbari-Ghachowk	3,4	Bhatthar, Paheley, Bhirbari, Ghachowk	2.586	6	150	144458	1	60	Katus, Chilaune, Uttis
	Kiley-Ribhan	5	Ribhan	4.161	6	100	263620	1.5	70	Katus, Chilaune, Uttis, Malato
	Humdi-Dadagaun-Mohora	5	Dadagaun, Mohara	3.894	6	120	397715	3	155	Katus, Chilaune, Uttis, Malato
	Dandagau-Nayagau-Pokharidanda	7	Dadagaun, Nayagaun, Pokharidanda	3.771	6	150	228532	1	60	Katus, Chilaune, Uttis, Malato
	Lwang-Koleli-Tilchi-Lumre	8	Lwang, Koleli, Tilchi, Lumrey	7.927	6		954915	3	130	Katus, Chilaune, Uttis, Malato
	Khoramukh-Idikhola-Satley-Dhampus	7,8	Khoramukh, Idikhola, Satley, Dhampus	7.927	6	350	466452	3.5	145	Katus, Chilaune, Uttis, Malato
	Ward office to khadarjung ghoptey danda	2								
	Chyanglung kabhre road	2								
	Saitikhola-Imu-Takru-Purundhu-Chayam	9	Saitighatta, Imu, Takru, Purundhu, Chayaam	6.65	6	130	277006	2km	80	Katus, Chilaune, Uttis, Malato
Annapurna (Kaski)	Thotneykhola dhakey sabjung	6		4	6	300	50000			
	Purano Ghaderi pasal dhakey	6		2	4	300	20000			
	Lumle ghumti Chandrakot	6		2	7	300	60000			
	Jaljala Ghayabjung rural road	6		1	5	200	15000			

	Dhawa haijung road	6		5	6	700	80000			
	Dhawa Lamkhoriya	6		3	6	200	30000			
	Salyan ghunti bhirmuni	6		2	5	200	30000			
	Lumley Tanchowk Bichuk Landruk	7		15		500				
	Mahabhir Kanchibaraha Pothana Tolka	7		22		390				
	Dhawa Tomijung Patlekheth road	7		10		160				
	Bireythanti Thukurna besi road	7		6		77				
	Kurudhu alukhor road	7		5		200				
	Ghaderi aahal midigara road	7		4		300				
	Napro chandi bhacheck road	7		7		203				
	Tirlung kilauda road	7		5		106				
	Majhgaun ward office road	7		5		210				
	Jalkeni khaune Dangsing sakryu road	8						10000		Upgrade
	Syaulibazar tamu mohoriya road	8						9100		Upgrade
	Birethanti tikheydhunga Ulleri ghadeypani muktimarga	9				500	50000			
	Sabet chandimarga	9	Sabet			50	10000			
	Mauja rural road	9	Mauja			35	10000			
	Nayagaun rural road	9	Nayagaun			50	10000			
	Sotrey simalbot rural road	9	Sotrey simalbot			40	10000			
	Kotgaun-Ghyurekhola chakrapath	10,11	Ghandruk	3	8	1200	100000	1km	500	Uttis
	Tikhyaan narthok	10	Ghandruk	2	8	500	20000	1 km	60	Uttis
	Dhamley-Fulibang	10	Ghandruk	2.5	8	600	20000	1 km	100	Uttis
	Simalbot-Sibai	10	Ghandruk	2	8	150	1000			
	Mauje-Sunkhani	10	Ghandruk	1	8	25	500			
	Ghandruk uri kimrongkhola dhurjung road	11	Ghandruk - Ghurjung	15	8	180	400000	5 km	200	Uttis

	Kotro Komrong Melachey, Chailu	11	Kotro- Siprong	6	8	70	140000	1 km	20	Uttis
	Kaladanda, Matkyu uri bhungri road	11	10	8	73	180000	1 km			Uttis
	Matkyu samrong road	11	4	8	40	90000	2 km			Uttis
	Melache to Siprong road	11	3	8	30	2000	0.2 km			Uttis
Nason	Nason chakrapath	1,3,4								

G. Rural Electrification

Rural Municipality	Project name	Ward	CAMC	Village	Length (m)	Benefited HH	Estimated cost Rs(X,000)	Length (m) inside forest	Estimated tree no.	Main species	Remarks
Marsyangdi	Kalleri village	3				5					
	Rawa village	3				5					
	Harsingh danda	3									
	Ghanpokhara maintainence	2	Ghanpokhara			500	20000				
	Ghanpokhara-Nayu	1			2000	150					Pole shift
Khwolasothar	Tago khola	5	Pasgaun	Singdhi	2000	242	2000	1500			
	Central grid	6	Pasgaun	Pasgaun	23000	150	50000	40	500	Uttis, katus	
	Pasgaun microhydro	6	Pasgaun	Pasgaun	1500	150	3000	1.4	10	Uttis, katus	
	Giche electrification	8		Giche		20	100				
	Pachgau										
	Bhujung	4	Bhujung	Bhujung		362					
Chame	Mada khola	4	Chame	Mada		5000	300000	400	500	Salla	
Vargung Muktichhetra	Solar street light upto Muktinath	1									
	Dhakhirjung underground	5				150					
Gharphajong	Thini Hydropower	5		Thini	3000	350	100000	3000			
Lo-Ghekar Damodarkunda	Every village underground	All									
Thasang	Every village underground	All	Tukuche, kobang,kunjo, ghasa	Tukuche, kobang,kunjo, ghasa	10000	615	50000	3000			

	Naurikot microhydro 500 kw	2	Kobang	Kobang	300	167	20000	500	50	Salla	
Annapurna (Myagdi)	Annapurna Base camp	4									
	Ulleri	6		Ghara	3000	5		3000	200		
	Bhalkhara	6		Khibang	5000	2		5000	300		
Machhapuchre	Kalimati, Kokar, Highcamp	8,9	Lwanghalel	Kalimati, Kokar, Lowcamp, Highcamp	31000	150	10000	30	1500		
	Saripakha-Hile- Khumai-Kochran- Maysaram	1,9	Lwaghalel, Machhapuchre	Hiley, Chichimley, Khumai, Kochran, Mesaram	25000	30	10000	24	1300	Gurans, Uttis, Pirphirey, khasru Malato	Extension line
	Dadagaun-Mohora	5	Ribhan	Mohara, Syafe	7000	60	3000	5	300	Gurans, Uttis, Pirphirey, khasru Malato	Extension line
	Kapuche-Pipartal- Kochran	1	Machhapuchre	Pipar, Kochran	15000	25	6000	14	1100	Gurans, Uttis, Pirphirey, khasru Malato	Extension line
	Ghalekharkha- Tarahilltop	2	Sardikhola	Tarahilltop	12000	8	5000	11	950	Gurans, Uttis, Pirphirey, khasru Malato	Extension line
	Kasingkhola Microhydro project	8,9	Lwanghalel	Kalimati, Sidhing, Saitikhola, Keshbang, Kuibang, Lumrey	1000	1500	200000	0.4	100	Uttis, Malato	999 kw
	Super Sardikhola Hydropower project	2	Sardikhola	Meprang, Khaimarang	2000	400	200000	2	400	Gurans, Uttis,	990 kw

										Pirphirey, Malato	
Annapurna (Kaski)	Road light	6	Lumle		500	4000					
	Sabet Mauja Hile Tikheydhunga Nepane Ulleri Banthanti and Nangeythanti Micro energy and central line extension	9		Sabet Mauja Hile Tikheydhunga Nepane Ulleri Banthanti and Nangeythanti	450						
	Central grid extension	11	Ghandruk	all 11 wards							
	Tolka Landruk Bhedikharka Gauda Badaldanda Mardihimal Basecamp Central line connection	7	Lumle	Tolka, Landruk, Gauda, Badaldanda	80						

H. Bridge in the local road

Rural Municipality	Project name	Ward	CAMC	Village	Length of bridge (m)	Width of bridge (m)	Beneficiary HHs	Estimated cost Rs (X,000)	Estimated tree in public land	Main species	Remarks
Madi	Chiplikhola bridge	6	Sildhujure	Chipli	75	5	1000	20000			New
	Tangting -Sikles	1,2	Parche & Namarjung	Tangting & Sikles	150	5	550	30000	12	Uttis, Rakchan	New
	Setikhola	2	Namarjung	Setikhola	30	5	50	20000			New
	Ghyamrang khola	2	Namarjung	Ghyamrang	30	5	100	20000			
	Maidu Ti	1	Parche	Maidu ti	75	5	100	20000			
	Sotharkhola	8	Mijure	Sotharbesi	50	5	100	20000			
Marsyangdi	Sanyasi khola	9			200	1.5	300	5000			Suspension bridge
	Dharekhola	9			150	1.5	240	5000			
	Rople khola ratmata	9			150	1.5		4000			
	Damai padhera khola	9			100	1.5		4000			
	Gaikhute khola	9			50	1.5		4000			

	Baguwa to Khudi khola	9			150	1.5		4000			
	Chahare Khola	3			50		500				Motorable
	Siusang khola	3			50		250				
	Phalyu khola	1		Ghanpokhara,Nayu,Phajau	50		120	5000			Suspension
	Nepche khola	1		Ghanpokhara,Nayu,Phajau	50		150	5000			Suspension
	Pukro khola	1		Ghanpokhara,Nayu,Phajau	50		150	5000			Suspension
	Sondhe khola	1		Ghanpokhara,Nayu,Phajau	50		140	5000			Suspension
	Taprokhola	4	Tangring		50	1.5	400	5000	20	Uttis	Suspension
	Raidukhola	4			50	1.5	150	5000			Suspension
Khwolasothar	Thamakheth	5	Pasgaun	Singdhi	72	1.5	232	6000			Suspension
	Bridge	6	Pasgaun	Pasgaun	40	1	150	3500			Suspension
	Phyauro khola	6	Pasgaun	Pasgaun	50	1	150	5500			Suspension
	Giche rural bridge	8		Giche	33	4	80	3500			
	Rega Syo	3		Khogum	50		70	5000			Suspension
	Midim khola	4	Bhujung	Bhujung	60						
	Sudikhola	4	Bhujung	Bhujung	40						
	Kijjgo khola	4	Bhujung	Bhujung	75						
	Nangsau	4	Bhujung	Bhujung	105						
	Kaiyo	4	Bhujung	Bhujung	60						
Manang nisyang	Marsyangdi	1		Dhukurpokhari							
	Thorang khola	1									
Lomanthang	Nyamdok khola	4		Nyamdok							
	Kimling khola	4		Kimling							
	Namgyaal	3		Namgyaal							
	Dhokpo-lo khola	5		Lomanthang							
	Dhokpo jhyang khola	5		Lomanthang							
	Chhoser healthpost dhuk	2		Dhuk							
	Chayotochuma dhong	1		Chhoser							
Vargung Muktichhetra	Lupra belly bridge	1		Lupra							
	Jhong khola motorable	2		Jhong							
	Chengur-tangkar	2		Chengur							
	Sapina khola	2									

	Gohar -samar	3		Samar							
	Dhokrjung-Lungbuk	5		Dhokrjung							
Gharphajong	Marpha-Chairo	1,2		Marpha-Chairo	42	5	260	50000			
	Namu	5		Thini	25	4	200	30000			
	Tachigyud	5		Thini	30	4	200	35000			
	Dhawalagiri Basecamp	2		Marpha	25	4	210	30000			
Lo-Ghekar Damodarkunda	Charang	1		Charang	360	0,9	100				
	Dhey	5		Dhey	300	0,9	45				
	Tangya	5		Tangya	450	0,9	45				
Thasang	Kokheythanti	2	Kobang	Kokheythanti	70	10	180	30000			Motorable
	Chokhopani	1	Tukuche	Chokhopani	70	10	180	30000			Motorable
	Chayo khola	4,5	Kunjo	Chayo, Jhipra deurali	25	10	120	15000			Motorable
	Ghasa-Chyachu	4	Ghasa	Ghasa	500		120	30000	50		Suspension
	Ghasa-Pahirothapla	4	Ghasa	Ghasa	60	7,5	120	30000	50		Motorable
Annapurna (Myagdi)	Shivalaya mandir JalthaleBridge	4		Narchyang	300	1,5	650				
	Futfutey bridge	4		Narchyang	110	1,5	300				
	Sadhikarkha bridge	4		Narchyang	100	1,5	300				
	Busket	4		Narchyang	100	1,5	300				
	Thareyswara	4		Narchyang	300	1,5	700				
	Kalimati to Bethikhola	6		Ghara	100	2	150	5000	200		
Machhapuchre	Kalimati- Sidhing	8,9	Lwanghalel	Sidhing, Kalimati	700	1	250	80000	20	Uttis, Malato	Suspension
	Siding-Kaltha	9	Lwanghalel	Siding, Kaltha, Takro, Purumdhum	500	1	300	60000	20	Uttis, Malato	Suspension
	Idikhola	7,8	Lwanghalel, Dhampus	Idikhola, Dhampus pokhari	300	1	100	40000	15	Uttis, Malato	Suspension
Annapurna (Kaski)	Haijung	6	Lumle	Bhichuk-Tolka	50	6	2000	20000			Motorable
	Ghattey khola	7	Lumle	Tolka-Landruk	80		500				Motorable
	Tiukhola	7	Lumle	Landruk-Ghandruk	150		300				Motorable
	Modikhola	7,10	Lumle		300						Motorable
	Bhichuk-Tolka	7	Lumle		222		300				Suspension
	Patleket Hawandi	7	Lumle		380		400				Suspension
	Tomijungbesi Manchekhola	7	Lumle		60		60				Suspension

	Thulokhola	7	Lumle	Majhgaun	60		200				Suspension
	Pukhola	7	Lumle	Landruk-Ghandruk	80		300				Suspension
	Aangbang kokledil-Gauribang	8	Dangsing	Aangbang Gauribang			500			Chilaune, Katus	Suspension
	Hile Jhilibarang	9					300	6000			
	Phulibang-Kimchey	10	Annapurna	Hile Jhilibaang	150	2	200	5000	7	Uttis	
	Ghau-Deuralidanda	10	Annapurna	Ghandruk	200	2	200	7000	20	Uttis	
	Matkyu Khola	11	Ghandruk	Ghandruk	30	8	150	30000			Motorable
	Ghiyurikhola	11	Ghandruk		30	8	200	30000			Motorable
	Kimrongkhola	11	Ghandruk		300	1.5	60	20000			Suspension
	Polo khola	11	Ghandruk		130	1.5	66	10000			Suspension
	Hinku khola	11	Ghandruk		300	1.5	Tourist	50000			Suspension

I. Others

Rural Municipality	Project name	Ward	CAMC	Village	Benefited HH	Estimated cost Rs (X,000)	Length (m) inside forest	Estimated tree no.	Main species	Remarks
Madi	Thak hill park	6,7	Sildhujure	Thak	100	1000	1500	200	Chilaune, Uttis, Jhigani	
	Tourism Development master plan of Lamtari	10,11	Saimarang & Bhachowk	Saimarang & Bhachowk	500	25000	4 km	1400	Chandan, Lampatey, Jhigani	
Marsyangdi	Bhalamchaur-Mirche ground	9				5000				
	Bhatrepakha ground	9				2000				
	Pamchok ground	9				2000				
	Dand ground	9				2000				
	Lamagaun ground	9				2000				
	Sagle ground	9				2000				
	Toragaun ground	9				2000				
	Subedigaun ground	9				2000				
	Rock climbing spot simpani	9				5000				
	Marsyangdi river and khudi cleanliness									
	Healthy and Entruprenurship Youth									
	Bhakti thapa park									
	Sukman guring park									

	Model children park								
	Sports ground								
	Local festivals								
	Historical, cultural, archaeological sites conservation and development								
Khwolasothar	Singdhi viewtower	5	Pasgaun	Singdhi	242	2000			
	Gurung museum	5	Pasgaun	Singdhi	242	2000			
	Singdhi community homestay	5	Pasgaun	Singdhi	242	2000			
	Stone house model village	6	Pasgaun	Pasgaun	150	30000			
	Pasgaun sports ground	6	Pasgaun	Pasgaun	150	6000			
	Livestock	6	Pasgaun	Pasgaun	150	10000			
	Agriculture	6	Pasgaun	Pasgaun	150	20000			
	Tourism and Agriculture	8			240	10000			
	Tije lake construction	3		Ghalegadhi	130	5000			
	Gorkha army park	3		Ghalegadhi	130	5000			
	CAMC building	3		Bagum	130	5000			
	Internal village road	3		Ghalegadhi	100	4000			
	Tourism Development Management, park, research and monitoring	4	Bhujung	Bhujung	362	6800			
	Training, welcome gate, view tower, community building	4	Bhujung	Bhujung	362	25400			
Lomanthang	Garphu gumba tethem apple fence	1		Garphu					
	Thingar buddha park	3		Thingar					
	Thingar white view tower	3		Thingar					
Lo-Ghekar Damodarkunda	Stone pavements in village	all			436				
Thasang	Tukuche-Ghasa trail and bridge	1,2,3,4	Tukuche,Kobang, Ghasa,Lete	Tukuche,Kobang, Ghasa,Lete	550	100000	15000	500	Salla
	Tukuche-Pahirothapla trail upgrade	all	Tukuche, Kobang, Kunjo, Ghasa	Tukuche, Kobang, Kunjo, Ghasa	615	20000	30000	1000 (no felling needed)	Salla
	Lete Dahabuki -Chimkhola	3	Lete	Lete	150	10000	45000	3000 (no	Salla

	trail							felling needed)		
	Lete khola landslide control	3	Lete	Lete	150	20000				
	Kalopani area kaligandaki embankment	3	Lete	Lete	150	20000				
	Lyangku khola embankment	2	Kobang	Larjung	200	20000				
	Thapakhola embankment	1	Tukuche	Tukuche	121	20000				
	Tamkhola embankment	2	Kobang	Sauru	30	10000				
	Gada khola embankment	4	Ghasa	Ghasa	75	10000				
	Pangkhola embankment	4,5	Kunjo	Kunjo, Chayo	120	40000				
	Ghattey khola embankment	2	Kobang	Ghatteykhola	30	10000				
	Kalopani khola control	3	Lete	Kalopani	100	5000				
	Mansingkhola control	1	Tukuche	Tukuche	121	10000				
	Chokhopani village protection	1	Tukuche	Chokhopani	7	5000				
	Beni-Jomso road welcome gate	1,4	Tukuche,Ghasa	Ghasa		2000				
Machhapuchre	Timli stone mine	9	Lwanghalel	Sidhing	500	2000	600	50	Uttis, Malato	
	Tosilung stone mine	8	Lwanghalel	Kalimati, ghalel	300	1400	460	45	Uttis, Malato	
	Bharabhari stone mine	2	Sardikhola	Bharabhari, Kabhre	150	1500	600	55	Uttis, Malato	
	Saitikhola stone mine	9	Lwanghalel	Saitighatta, Takru	250	1700	400	65	Uttis, Malato	
	Mirsa stone mine	1	Machhapuchre	Mirsa, Ramja	150	1000	450	40	Uttis, Malato	
	Masyaku Planjey stone mine	8	Lwanghalel	Lwang, Tori	200	1300	440	70	Uttis, Malato	
Annapurna (Kaski)	Rock climbing	6	Lumle	Lumle	500	50000	200			
	Bhalachepark	10	Ghandruk	Ghandruk		5000		100		
	Tourism Park	11	Ghandruk	Uri	60	3000				
	Tea garden	11	Ghandruk	Uri	60	1000				
	Himalaya agro and herbal medicine agro farm	11	Ghandruk	Uri	60	5000				
	Allo collection and Processing	7	Lumle	All of ward 7						
Nason	LAPA									

Annex 21. Prioritized NTFPs in ACA with sustainable harvest (Kg/ha)								
S.N.	Local Name	Scientific Name	Prioritization of NTFPs	Potential habitat area(ha)	Average Sustainable Amount to Harvest Amt. (Wet Wt. kg/ha)	Average total sustainable harvest amount (Wet Wt. kg)	Allowable harvest amount (Wet Wt. kg)	Approximate Dry Wt. harvesting amount (kg)
1	Allo	<i>Girardinia diversifolia</i>	Commercial	32,797	44	1,439,787	43,194	14,253.90
2	Amala	<i>Phyllanthus emblica</i>	Commercial	1,357	7	9,719	1,458	481.11
3	Amriso	<i>Thysanolaena latifolia</i>	Commercial	2,302	34	77,946	7,795	2,572.22
4	Ban Lasun	<i>Allium wallichii</i>	Commercial	19,419	1	13,205	13,205	4,357.57
5	Ban Lasun, Kakoli	<i>Fritillaria cirrhosa</i>	Commercial	28,412	3	88,020	30,807	10,166.31
6	Ban tarul	<i>Dioscorea hamiltonii</i>	Non-commercial	5,214	33	169,774	16,977	5,602.53
7	Rani bhaykur	<i>Dioscorea pentaphylla</i>	Non-commercial	79	34	2,676	535	176.60
8	Banko, Bir banko	<i>Arisaema tortuosum</i>	Non-commercial	1,679	77	129,336	12,934	4,268.09
9	Bayajaro	<i>Smilax aspera</i>	Non-commercial	353	2	695	348	114.74
10	Bhojpatra	<i>Betula utilis</i>	Non-commercial	405	12	4,822	482	159.12
11	Bhuin chuk	<i>Hippophae tibetana</i>	Commercial	18,338	3	48,266	9,653	3,185.55
12	Bhuletro, Bhujetro	<i>Butea minor</i>	Non-commercial	783	11	8,614	861	284.27
13	Bhutkesh	<i>Selinum wallichianum</i>	Commercial	1,200	3	3,144	943	311.21
14	Bikh	<i>Aconitum spicatum</i>	Commercial	11,856	2	27,244	5,449	1,798.13

15	Bish jharne	<i>Arisaema speciosum</i>	Non-commercial	20,625	53	1,097,648	43,906	14,488.96
16	Bojho	<i>Acorus calamus</i>	Non-commercial	940	2	1,810	271	89.59
17	Chillo batulpate	<i>Cissampelos pareira</i>	Non-commercial	183	20	3,676	368	121.31
18	Chiple	<i>Boehmeria sp</i>	Commercial	116	1	120	120	39.50
19	Chiraito	<i>Swertia chirayita</i>	Commercial	23,367	20	466,413	41,977	13,852.48
20	Chutro	<i>Berberis asiatica</i>	Non-commercial	2,689	23	61,986	6,199	2,045.54
21	Chutro	<i>Berberis aristata</i>	Non-commercial	16,685	11	188,712	7,548	2,490.99
22	Chyau	<i>Ganoderma sp.</i>	Commercial	2,470	7	17,095	855	282.07
23	Daaling dhup	<i>Dolomiaea macrocephala</i>	Non-commercial	1,127	3	3,595	359	118.62
24	Dale chuk	<i>Hippophae salicifolia</i>	Commercial	7,877	23	180,612	18,061	5,960.19
25	Dhakayo saag	<i>Arisaema griffithii</i>	Non-commercial	6,149	12	71,147	7,115	2,347.86
26	Dhatelo	<i>Prinsepia utilis</i>	Non-commercial	6,734	18	118,659	11,866	3,915.74
27	Dhupi	<i>Juniperus indica</i>	Commercial	19,980	33	665,130	16,628	5,487.32
28	Ganja	<i>Cannabis sativa</i>	Non-commercial	64	10	624	94	30.89
29	Ghodtapre	<i>Centella asiatica</i>	Non-commercial	64	8	490	98	32.31
30	Gittha	<i>Dioscorea sp.</i>	Non-commercial	783	19	14,487	1,449	478.08
31	Gujargano	<i>Stephania glandulifera</i>	Non-commercial	2,254	7	15,483	1,548	510.93
32	Gurjo	<i>Tinospora cordifolia</i>	Commercial	2,427	43	104,746	10,475	3,456.62
33	Guyeli	<i>Elaeagnus infundibularis</i>	Non-commercial	157	3	472	472	155.73
34	Guyeli	<i>Elaeagnus umbellata</i>	Non-commercial	1,050	20	20,595	2,059	679.62
35	Halhale	<i>Rumex nepalensis</i>	Non-commercial	10,473	40	415,766	4,158	1,372.03
36	Indreni	<i>Trichosanthes tricuspidata</i>	Non-commercial	2,510	5	11,698	2,340	772.09
37	Jatamansi	<i>Nardostachys</i>	Commercial	31,572	4	123,448	12,345	4,073.77

		<i>jatamansi*</i>						
38	Jhyau	<i>Lichen sp*</i>	Non-commercial	834	2	1,395	139	46.03
39	Jimbu	<i>Allium hypsistum</i>	Commercial	9,465	3	31,801	7,950	2,623.56
40	Kafal	<i>Myrica esculenta</i>	Commercial	9,874	11	112,756	11,276	3,720.95
41	Chiple Kaulo	<i>Machilus duthiei</i>	Commercial	2,376	7	15,603	1,560	514.89
42	Kaulo	<i>Machilus odoratissima</i>	Non-commercial	2,025	10	19,948	1,995	658.27
43	Khiramlo	<i>Polygonatum verticillatum</i>	Commercial	826	50	41,275	6,191	2,043.11
44	Khiraunla	<i>Polygonatum cirrrhifolium</i>	Commercial	19,245	5	93,529	14,029	4,629.71
45	Kurilo	<i>Asparagus racemosus</i>	Commercial	26,009	17	442,673	44,267	14,608.22
46	Kurilo	<i>Asparagus officinalis</i>	Commercial	2,618	30	79,387	4,763	1,571.86
47	Kutki	<i>Neopicrorhiza scrophulariiflora*</i>	Commercial	60,134	3	202,051	8,082	2,667.07
48	Lauth salla	<i>Taxus wallichiana*</i>	Commercial	27,195	28	774,798	19,370	,392.08
49	Lek satuwa	<i>Trillium govonianum</i>	Commercial	312	1	190	190	62.84
50	Lokta	<i>Daphne bholua</i>	Commercial	40,708	27	1,117,058	37,980	12,533.39
51	Maharangi	<i>Maharangi emodi</i>	Non-commercial	8,380	34	287,350	5,747	1,896.51
52	Majjitho	<i>Rubia manjith</i>	Commercial	5,287	31	162,519	16,252	5,363.12
53	Nagbeli	<i>Lycopodium clavatum</i>	Non-commercial	4,037	31	123,809	3,714	1,225.71
54	Nigalo/Ghode	<i>Drepanostachyum falcatum</i>	Commercial	25,867	22	569,270	102,469	33,814.63
55	Nigalo, Rato	<i>Thamnocalamus spathiflorus</i>	Commercial	52,323	98	5,153,243	103,065	34,011.40
56	Nirmasi	<i>Delphinium denudatum</i>	Commercial	57,094	3	144,447	10,834	3,575.06
57	Nyuro	<i>Diplazium maximum</i>	Commercial	11,411	32	362,188	18,109	5,976.11

58	Nyuro	<i>Dryopteris cochleata</i>	Commercial	20,451	1,061	21,701,692	21,702	7,161.56
59	Nyuro	<i>Matteuccia struthiopteris</i>	Commercial	987	8	7,500	1,500	495.03
60	Padamchal	<i>Rheum australe</i>	Commercial	39,013	7	263,336	13,167	4,345.04
61	Pahelo ainselu	<i>Rubus ellipticus</i>	Commercial	7,721	29	224,626	11,231	3,706.32
62	Pakhanbed	<i>Bergenia ciliata</i>	Commercial	5,516	13	71,160	3,558	1,174.14
63	Panchaule	<i>Dactylorhiza hatagirea*</i>	Commercial	3,298	1	4,189	419	138.24
64	Hill pepper	<i>Piper mullesua</i>	Commercial	2,952	10	29,699	1,188	392.02
65	Pipla, Gaj pipla	<i>Piper longum</i>	Commercial	270	3	675	473	155.93
66	Pongar	<i>Aconitum gammiei</i>	Commercial	1,566	1	2,176	435	143.65
67	Bethe sag	<i>Chenopodium album</i>	Non-commercial	54	16	885	106	35.03
68	Rato Chyau	<i>Lentinula sulphureus</i>	Commercial	2,593	11	28,830	1,153	380.56
69	Chyau	<i>Ganoderma lucidum</i>	Commercial	2,524	6	15,651	1,565	516.49
70	Rose	<i>Rosa sericea</i>	Non-commercial	2,913	2	4,370	437	144.21
71	Satuwa	<i>Paris polyphylla</i>	Commercial	46,977	19	900,551	18,011	5,943.64
72	Siltimur	<i>Litsea cubeba</i>	Commercial	632	4	2,331	233	76.93
73	Siltimur	<i>Lindera neesiana</i>	Commercial	5,446	22	121,944	6,097	2,012.07
74	Sisnu	<i>Urtica dioica</i>	Commercial	21,720	32	690,265	6,903	2,277.87
75	Somlata	<i>Ephedra gerardiana</i>	Non-commercial	4,990	3	12,625	1,136	374.98
76	Sughandawal	<i>Valeriana jatamansi</i>	Commercial	1,118	1	1,514	1,060	349.78
77	Sunpati	<i>Rhododendron anthopogon</i>	Commercial	63,558	Flower=0.18	11,440	2,288	755.06
					Leaf = 7.06	448,716	13,461	4,442.29
78	Talis patra	<i>Abies spectabilis*</i>	Non-commercial	875	6	4,979	2,489	821.51
79	Tejpat	<i>Cinnamomum tamala</i>	Commercial	5,814	Bark-8.844	51,416	2,571	848.36
					Leaves-41.99	244,113	17,088	5,639.02

80	Thulo okhati	<i>Astilbe rivularis</i>	Non-commercial	3,444	3	9,851	985	325.08
81	Timur	<i>Zanthoxylum armatum</i>	Commercial	10,651	20	208,751	8,350	2,755.51
82	Titepati	<i>Artemisia indica</i>	Non-commercial	22,695	113	2,557,244	102,290	33,755.63
83	Titepati	<i>Artemisia vestita</i>	Non-commercial	22,935	2	40,137	12,041	3,973.52
84	Yarshagumba	<i>Cordyceps sinensis</i>	Commercial	70,016	0	3,431	961	317.00
				1,021,238		43,007,047	1,005,832	331,924.60

Annex 22. Lists of NTFPs recorded in ACA

S.N.	Total NTFP species	Scientific Name
1	Aaru	<i>Prunus persica</i> (L.) Batsch
2	Ainselu	<i>Rubus ellipticus</i> Smith
3	Alainchi	<i>Amomum subulatum</i> Roxb.
4	Allo	<i>Girardinia diversifolia</i> (Link) Frus
5	Amala	<i>Phyllanthus emblica</i>
6	Amaro	<i>Spondias pinnata</i> (L.f.) Kurz
7	Amriso	<i>Thysanolaena maxima</i> (Roxb.) Kuntze
8	Ankhle Jhar, Kukure	<i>Equisetum diffusum</i>
9	Asuro	<i>Justicia adhatoda</i> L.
10	Balyyangra	<i>Mucuna macrocarpa</i>
11	Ban Aalu	<i>Eriobotrya japonica</i> (Thunb.) Lindl.
12	Ban Angur	<i>Torricellia tillifolia</i> DC.
13	Ban Kapas	<i>Thespesia lampas</i> (Cav.) Daiz. & Gibs.
14	Ban Karela	<i>Momordica dioica</i> Roxb. Ex Willd.
15	Ban Lasun	<i>Lilium nepalense</i> D.Don
16	Ban Unkhu	<i>Sachharum spontaneum</i>
17	Banmula	<i>Raphanus raphanistrum</i>
18	Ban-Pyaj	<i>Allium sp</i>
19	Barro	<i>Terminalia bellirica</i> (Gaertn.) Roxb.
20	Bayajaro	<i>Smilax aspera</i>
21	Bhojpatra	<i>Betula utilis</i> D.Don
22	Bojho	<i>Acorus calamus</i>
23	Nirmasi	<i>Delphinium denudatum</i>
24	Bhote Khayar	<i>Parthenocissus himalayana</i>
25	Bhuin Amala	<i>Phyllanthus urinaria</i> L.
26	Bhuinchampa	<i>Kaempferia rotunda</i> L.
27	Bhutkesh	<i>Selinum sp.</i>
28	Bhutro	<i>Butea minor</i> Buch.-Ham.
29	Bikh	<i>Aconitum spicatum</i> (Bruhl) Stapf
30	Boke Timur	<i>Zanthoxylum aconthopodium</i>
31	Brahamali, Ghodtapre	<i>Centella asiatica</i> (L.) Urb.
32	Ganja, Bhang	<i>Cannabis sativa</i> L.
33	Caragana sp.	<i>Caragana brevispina</i> Royle
34	Chherma	<i>Berberis aristata</i> DC.
35	Chi-Chi	<i>Hippophae salicifolia</i> D.Don
36	Chiraito	<i>Swertia chirayita</i>
37	Lek Batamle, Padamchal	<i>Rheum australe</i> D.Don
38	Chutro	<i>Berberis asiatica</i> Roxb. Ex DC.
39	Chyau	<i>Agaricus campestris</i>
40	Dalechuk, Tora	<i>Hippophae tibetana</i>
41	Dhakayo	<i>Arisaema speciosum</i> (Wall.) Mart. Ex Schott
42	Dhema	<i>Caragana versicolor</i> (Wall. Benth).
43	Dhupi (Kumkum)	<i>Didymocarpus abicalyx</i> C.B. Clarke
44	Eklevir	<i>Lobelia pyramidalis</i> Wall.
45	Ephedra	<i>Ephedra girardiana</i> Wall.
46	Gaikhure	<i>Tribulus terrestris</i> L.
47	Ghangaru	<i>Pyracantha crenulata</i> (D.Don) M. Roemer
48	Ghiukumari	<i>Aloe vera</i> (L.) Burm. F.
49	Githha, Bhyakur	<i>Dioscorea bulbifera</i> L.
50	Guchhichyaau	<i>Morchella esculenta</i>
51	Gudelo	<i>Elaeagnus parvifolia</i> L.
52	Gujargano	<i>Cissaampelos pareira</i> L.

53	Gulfa/Glpha	<i>Holboellia latifolia</i> Wall.
54	Gurjo	<i>Tinospora sinensis</i> (Lour.) Merr.
55	Guyeli	<i>Elaeagnus infundibularis</i>
56	Hadchur	<i>Viscum articulatum</i> Burm. F.
57	Hade Lasun	<i>Crinum amoenum</i> Roxb.
58	Halhale	<i>Rumex nepalensis</i> Spreng.
59	Hardjor, Panchaule	<i>Dactylorhiza hatagirea</i> (D. Don) Soo
60	Harro	<i>Terminalia chebula</i> Retz.
61	Honey bee	<i>Apis dorsatalaboriosa</i>
62	Indreni Lahara	<i>Citrullus colosynthis</i> Schred.
63	Jamanemandro	<i>Mahonia napaulensis</i> DC.
64	Jhulesalla	<i>Picea smithiana</i> (Wall.) Boiss.
65	Jibre sag	<i>Ophioglossum petiolatum</i>
66	Jimbu	<i>Allium hypsistum</i> Stearn.
67	Kafal	<i>Myrica esculenta</i> Buch.-Ham. Ex D. Don
68	Kanchirno	<i>Rhapidophora glauca</i>
69	Kantakari	<i>Solanum surratense</i> Burm. F.
70	Kaulo	<i>Machilus odoratissima</i>
71	Kaulo (Chiple)	<i>Machilus duthiei</i>
72	Kaulo (Lipe)	<i>Machilus eduis</i>
73	Khammari	<i>Gmelina arborea</i> Roxb.
74	Khiraunla	<i>Polygonatum verticillatum</i>
75	Khole Sag	<i>Rorippa nasturtium-aquaticum</i> (L.) Hayek
76	Kimmu	<i>Morus serrata</i> Roxb.
77	Kukur tarul	<i>Dioscorea alata</i> L.
78	Lakhuto	<i>Pteridium revolutum</i>
79	Laligurans	<i>Rhododendron arboreum</i> Smith
80	Lapsi	<i>Choerospondias axillaris</i> (Roxb.) B. L. Burtt & A. W. Hill
81	Lauth salla	<i>Taxus wallichiana</i>
82	Hade Unau	<i>Glechenia gigantean</i>
83	Lichen	<i>Usnea aciculifera</i>
84	Lokta	<i>Daphne bholua</i>
85	Maharangi	<i>Maharanga emodi</i> (Wall.) A. DC.
86	Maholo	<i>Viburnum mullaha</i> Buch.-Ham. ex D. Don
87	Majitho	<i>Rubia manjith</i>
88	Meconopsis	<i>Meconopsis sps</i>
89	Niguro	<i>Dryopteris cochleate</i>
90	Niuro	<i>Diplazium maximum</i>
91	Nundhiki	<i>Osyris Wightiana</i> Wall.
92	Okhar	<i>Juglans regia</i> L.
93	Pakhanbed	<i>Bergenia ciliata</i>
94	Palta	<i>Persea americana</i>
95	Pangay, Jatamansi	<i>Nardostachys jatamansi</i>
96	Pangra	<i>Entada phaseoloides</i>
97	Paniamala	<i>Nephrolepis auriculata</i>
98	Lekh sallo	<i>Pinus wallichiana</i> A.B. Jackson
99	Pipla	<i>Piper longum</i>
100	Pongar	<i>Aconitum gammiei</i>
101	Rhododendron Lepidotum	<i>Rhododendron Lepidotum</i> Wall.
102	Ral Tung (Bethe sag)	<i>Chenopodium album</i> L.
103	Rato chyau	<i>Lentinula sulphureus</i>
104	Rittha	<i>Sapindus mukorossi</i> Gaerth
105	Rosa Sp.	<i>Rosa sericea</i>
106	Rudhilo	<i>Pogostemon benghalensis</i> (Burm. F.) kuntze

107	Saldhup	<i>Shorea robusta</i> Gaertn.
108	Sanoabhijalo	<i>Drymaria cordata</i> (L.) Willd. ex Roem. & Schult
109	Satuwa	<i>Paris polyphylla</i>
110	Shikhari lahara	<i>Poranopsis paniculata</i>
111	Shilajit	<i>Asphaltum punjabianum</i>
112	Sigri Dhup, Dhupi	<i>Juniperus indica</i> Bertol.
113	Sil Timur	<i>Lindera neesiana</i>
114	Sil Timur	<i>Litsea cubeba</i>
115	Silinge	<i>Osmanthus fragrans</i>
116	Sinkauli	<i>Cinnamomum tamala</i> (Buch.-Ham.) Nees & Eberm.
117	Sisnu	<i>Urtica dioica</i> L.
118	Sugandhawal	<i>Valeriana jatamansi</i>
119	Sunakhari	Orchids
120	Sunpati	<i>Rhododendron anthopogon</i>
121	Titepati	<i>Artemisia indica</i>
122	Thakailo	<i>Cirsium falconeri</i> (Hook. F.) Petrak
123	Thosni	<i>Aconogum mobile</i> (D.Don) Hara
124	Thulokhati	<i>Astilbe rivularis</i>
125	Titepati	<i>Artemisia gmelinii</i>
126	Tite	<i>Thlapsi arvense</i> L.
127	Tusa	<i>Thamnocalamus spathiflorus</i>
128	Wild Strawberry	<i>Fragaria vesca</i> L.
129	Yarshagumba	<i>Cordyceps sinensis</i>
130	Kakoli	<i>Fritillaria cirrhosa</i>
131	Ban tarul	<i>Dioscorea hamiltonii</i>
132	Daaling dhup	<i>Dolomiaea macrocephala</i>
133	Dhakayo	<i>Arisaema griffithii</i>
134	Dhatelo	<i>Prinsepia utilis</i>
135	Gujargano	<i>Stephania gladulifera</i>
136	Khiraunla	<i>Polygonatum cirrhifolium</i>
137	Kurilo	<i>Asparagus officinalis</i>
138	Lek satuwa	<i>Trillium govanianum</i>
139	Nagbeli	<i>Lycopodium clavatum</i>
140	Nigalo	<i>Drepanostachyum falcatum</i>
141	Pipla	<i>Piper mullesua</i>
142	Talis patra	<i>Abies spectabilis</i>
143	Titepati	<i>Artemisia vestita</i>
144	Kurilo	<i>Asparagus racemosus</i>
145	Bhedekuro	<i>Barleria cristata</i> L.
146	Narka, Ganaune, Gharguri, Bakle Pat	<i>Viburnum cotinifolium</i> D.Don
147	Ghode Khari, Asara	<i>Viburnum cylindricum</i> Buch.-Ham. Ex D.Don
148	Bhakimlo	<i>Rhus javanica</i> (L.) Merr.
149	Rani bhalayoo	<i>Rhus succedanea</i> L.
150	Bucho Aushadhi	<i>Heracleum nepalense</i> D.Don
151	Aank	<i>Calotropis gigantea</i> (L.) W.T.Aiton
152	Kirro	<i>Holarrhena pubescens</i> (Buch.-Ham.) Wall. Ex G. Don
153	Dudhela	<i>Hedera nepalensis</i> K. Koch
154	Madar	<i>Panax pseudoginseng</i> Wall.
155	Chuletro	<i>Trevesia palmata</i> (Roxb. ex Lindl.) Vis.
156	Kalo banmara	<i>Ageratina adenophora</i> (Spreng.) R.M.King & H.Rob.
157	Gandhe Jhar	<i>Ageratum conyzoides</i> L.
158	Sahadeva	<i>Ainsliaea aptera</i> DC.
159	Buki Phool	<i>Anaphalis busua</i> (Buch.-Ham.) DC.
160	Buki Phool	<i>Anaphalis contorta</i> (D. Don) Hook.f.

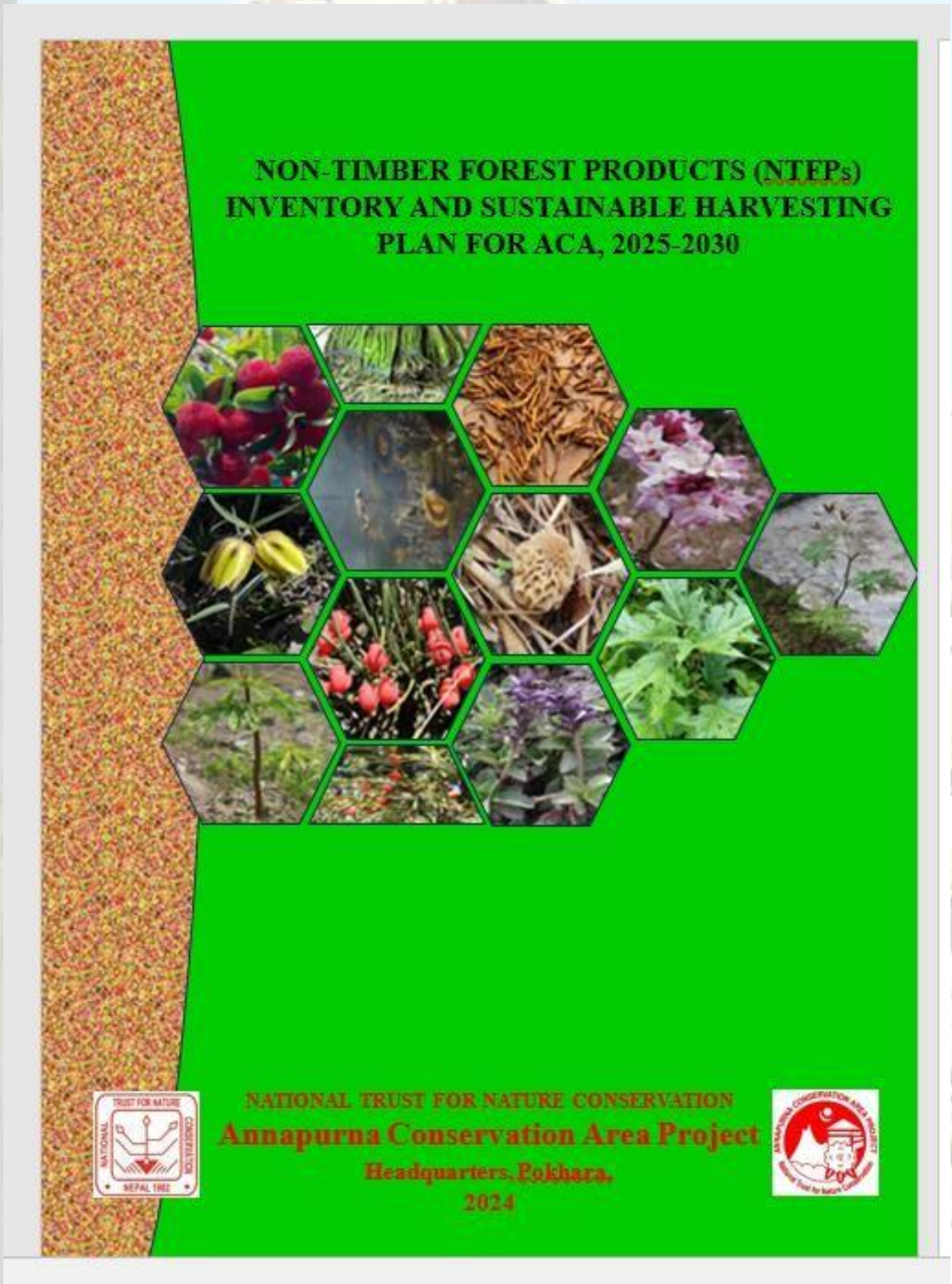
161	Tine	<i>Arctium lappa</i> L.
162	Lugmik	<i>Aster indamellus</i> Grierson
163	Kalo kuro	<i>Bidens pilosa</i> L.
164	Thuk Jhar	<i>Caesulia axillaris</i> Roxb.
165	Thakal Kanta	<i>Cirsium wallichii</i> DC.
166	Anikale Jhar	<i>Crassocephalum crepidioides</i> (Benth.) S.Moore
167	Gadhihare	<i>Duhaldea cappa</i> (Buch.-Ham. ex D.Don) Pruski & Anderb.
168	Bhringiraj	<i>Eclipta prostrata</i> (L.) L.
169	Sahasra Buti	<i>Elephantopus scaber</i> L.
170	Chalune Jhar	<i>Emilia sonchifolia</i> (L.) DC.
171	Chittlange jhar	<i>Galinsoga parviflora</i> Cav.
172	Juse Til, Philinge	<i>Guizotia abyssinica</i> (L.f.) Cass.
173	Sooryamukhee	<i>Helianthus annuus</i> L.
174	Kapase phool	<i>Saussurea gossypiphora</i> D. Don
175	Sayapatri	<i>Tagetes erecta</i> L.
176	Tuki Phool	<i>Taraxacum</i> sect. <i>Taraxacum</i> F.H.Wigg.
177	Tiuri Jhar	<i>Impatiens scabrida</i> DC.
178	Kyerpa	<i>Berberis ceratophylla</i> G. Don
179	Chutro	<i>Berberis chitria</i> Buch.-Ham. ex Lindl.
180	Bahremaase Chutro	<i>Berberis wallichiana</i> DC.
181	Uttis, Giunsin	<i>Alnus nepalensis</i> D. Don
182	Saur, Chiyober	<i>Betula alnoides</i> Buch.-Ham. ex D.Don
183	Totala	<i>Oroxylum indicum</i> (L.) Kurz
184	Shalgam	<i>Brassica rapa</i> L.
185	Darya Ken	<i>Lepidium apetalum</i> Willd.
186	Ramsinghe, Dabdabe	<i>Garuga pinnata</i> Roxb.
187	Naagaphani/Paate Siundi	<i>Opuntia monacantha</i> Haw.
188	Khari	<i>Celtis australis</i> L.
189	Ban Karyaal/Mula Pat	<i>Dipsacus inermis</i> Wall.
190	Ban Chitu	<i>Euonymus hamiltonianus</i> Wall.
191	Mamire	<i>Parnassia nubicola</i> Wall. ex Royle
192	Amarlata, Aakash beli	<i>Cuscuta reflexa</i> var. <i>reflexa</i> Roxb.
193	Lahare saag	<i>Ipomoea muricata</i> (L.) Jacq.
194	Machhyano	<i>Coriaria nepalensis</i> Wallich
195	Kundruk, Golkankri	<i>Coccinia grandis</i> (L.) Voigt.
196	Indreni	<i>Trichosanthes tricuspidata</i> Lour.
197	Rakchan Chandan	<i>Daphniphyllum himalense</i> (Benth.) Müll.Arg
198	Phallu	<i>Cassiope fastigiata</i> (Wall.) D. Don
199	Angeri, Anjir, Jagguchal	<i>Lyonia ovalifolia</i> (Wall.) Drude
200	Bristly Rhododendron	<i>Rhododendron setosum</i> D. Don
201	Dudhe, Rato Maslahare	<i>Euphorbia hirta</i> L.
202	Lalupate	<i>Euphorbia pulcherrima</i> Willd. ex Klotzsch
203	Siund	<i>Euphorbia royleana</i> Boiss.
204	Godasilo	<i>Excoecaria acerifolia</i> Didr.
205	Sajwan/ Ratando	<i>Jatropha curcas</i> L.
206	Maleto, Mallato	<i>Macaranga denticulata</i> (Blume) Müll.Arg.
207	Rohini, Sindure	<i>Mallotus philippensis</i> (Lam.) Mull. Arg.
208	Adil	<i>Ricinus communis</i> L.
209	Koiralo	<i>Bauhinia variegata</i> L.
210	Theki Kath	<i>Erythrina arborescens</i> Roxb.
211	Phaledo	<i>Erythrina stricta</i> Roxb.
212	Bhamase	<i>Flemingia strobilifera</i> (L.) W.T.Aiton
213	Bhattmas	<i>Glycine max</i> (L.) Merr.
214	Phusre Ghaans/ Miramre	<i>Indigofera cassioides</i> Rottler ex DC

215	Laijabati, Buhan	<i>Mimosa pudica</i> L.
216	Jangali Badame Jhar, Chemg Phool	<i>Parochetus communis</i> Buch.-Ham. ex D.Don
217	Bhoria, Boria	<i>Phanera vahlii</i> (Wight & Arn.) Benth.
218	Baralikunda Biralimendo	<i>Pueraria tuberosa</i> (Roxb. ex Willd.) DC.
219	Ashok	<i>Saraca asoca</i> (Roxb.) W.J.de Wilde
220	Dhale Katush	<i>Castanopsis indica</i> (Roxb. ex Lindl.) A.DC.
221	Masure Katush, Kasin	<i>Castanopsis tribuloides</i> (Sm.) A.DC.
222	Phalant, Ngasi	<i>Quercus lamellosa</i> Sm.
223	Karoo	<i>Gentiana Kurroo</i> Royle
224	Tikta	<i>Gentianopsis paludosa</i> (Hook.f.) Ma
225	Kalen	<i>Swertia ciliata</i> (D.Don) B.L.Burt
226	Chunitro Ghans	<i>Geranium nepalense</i> Sweet
227	Raklamula	<i>Geranium wallichianum</i> D.Don ex Sweet
228	Paakhaan Bhitaa	<i>Didymocarpus aromaticus</i> D.Don
229	Bansuli/ Bhaasak	<i>Hydrangea febrifuga</i> (Lour.) Y.De Smet & Granados
230	Undalu/ Urilo	<i>Hypericum uralum</i> Buch.-Ham. ex D.Don
231	Ghoke ghans	<i>Ajuga macrosperma</i> Wall. ex Benth.
232	Raato Chaarapaate	<i>Anisomeles indica</i> (L.) Kuntze
233	Mas Gede	<i>Callicarpa arborea</i> Roxb.
234	Guenlo	<i>Callicarpa macrophylla</i> Vahl
235	Dhursule	<i>Colebrookea oppositifolia</i> Sm.
236	Atunametok	<i>Dracocephalum heterophyllum</i> Benth.
237	Kansta/ Jangli tulsi	<i>Elsholtzia blanda</i> (Benth.) Benth.
238	Ban Baawaari	<i>Elsholtzia strobilifera</i> (Benth.) Benth.
239	Phusure, Bhusure, ghurmiso	<i>Leucosceptrum canum</i> Sm.
240	Pinaase Jhar	<i>Micromeria biflora</i> (Buch.-Ham. ex D.Don) Benth.
241	Ramtulasi	<i>Origanum vulgare</i> L.
242	Gwalpani	<i>Salvia hians</i> Royle ex Benth.
243	Nilobutte ghans	<i>Scutellaria discolor</i> Wall. ex Benth.
244	Akheno	<i>Thymus linearis</i> Benth.
245	Dalchini, Kukhi Taj	<i>Cinnamomum verum</i> J.Presl
246	Kutmiro, Ratmati	<i>Litsea monopetala</i> (Roxb.) Pers.
247	Pyauli, Kyobi, Basanta	<i>Reinwardtia indica</i> Dumort.
248	Dhairo	<i>Woodfordia fruticosa</i> (L.) Kurz
249	Ban Kapas	<i>Azanza lampas</i> (Cav.) Alef.
250	Jhilimilipapa	<i>Oxyspora paniculata</i> DC.
251	Badahar	<i>Artocarpus lacucha</i> Buch.-Ham.
252	Kyunkaphal	<i>Morus alba</i> L.
253	Jamuna, Kalojamuna	<i>Syzygium cumini</i> (L.) Skeels
254	Dhukure	<i>Fumaria indica</i> (Hausskn.) Pugsley
255	Jhingana, Junsi	<i>Eurya acuminata</i> DC.
256	Gayo	<i>Bridelia retusa</i> (L.) A.Juss.
257	Jarango Sag, Jarka	<i>Phytolacca acinosa</i> Roxb.
258	Hadohuro	<i>Peperomia tetraphylla</i> (G.Forst.) Hook. & Arn.
259	Isabgol	<i>Plantago major</i> L.
260	Chini Jhar	<i>Scoparia dulcis</i> L.
261	Luiche Phool,	<i>Polygala arillata</i> Buch.-Ham. ex D.Don
262	Ratnaulo	<i>Bistorta amplexicaulis</i> (D.Don) Greene
263	Bilaune, Ghonde	<i>Maesa chisia</i> D.Don
264	Banbhogate	<i>Myrsine africana</i> L.
265	Brisma, Atisingiya, Seto Bikh	<i>Aconitum ferox</i> Wall. ex Ser.
266	Atish	<i>Aconitum heterophyllum</i> Wall. ex Royle
267	Gobaree	<i>Aconitum lethale</i> Griff.
268	Junge Lahara	<i>Clematis montana</i> Buch.-Ham. ex DC.

269	Nak kore Jhar	<i>Ranunculus diffusus</i> DC.
270	Nak Kore	<i>Ranunculus sceleratus</i> L.
271	Dampate, Bansuli	<i>Thalictrum foliolosum</i> DC.
272	Bherakuro	<i>Agrimonia pilosa</i> Ledeb.
273	Kause Phool	<i>Cotoneaster affinis</i> Lindl.
274	Hatti Laharo	<i>Neillia thyrsoflora</i> D. Don
275	Khurpani	<i>Prunus armeniaca</i> L.
276	Painun, Chyakha	<i>Prunus cerasoides</i> Buch.-Ham. ex D. Don
277	Naspati	<i>Pyrus communis</i> L.
278	Mayal, Mel	<i>Pyrus pashia</i> Buch.-Ham. ex D. Don
279	Bhainse Kanda	<i>Rosa macrophylla</i> Lindl.
280	Kalo Ainselu	<i>Rubus niveus</i> Thunb.
281	Chyanguya	<i>Galium acutum</i> Edgew.
282	Dhobini	<i>Mussaenda roxburghii</i> Hook.f.
283	Ban Champa	<i>Spermadictyon suaveolens</i> Roxb.
284	Rato Kaginyo, Hyargo	<i>Wendlandia heynei</i> (Schult.) Santapau & Merchant
285	Bel	<i>Aegle marmelos</i> (L.) Corrêa
286	Dampate, Makhemaulo	<i>Boeninghausenia albiflora</i> (Hook.) Rchb. ex Meisn.
287	Nibuwa	<i>Citrus limon</i> (L.) Osbeck
288	Bimiro	<i>Citrus medica</i> L.
289	Bains	<i>Salix babylonica</i> L.
290	Pangre, Karu, Naru, Gyonprame	<i>Aesculus indica</i> (Wall. ex Cambess.) Hook.
291	Ondho, Tonsi	<i>Saurua napaulensis</i> DC.
292	Thulo Pashan Bhed	<i>Bergenia stracheyi</i> (Hook.f. & Thomson) Engl.
293	Narayan Pati, Naprosar	<i>Buddleja asiatica</i> Lour.
294	Dhatura	<i>Brugmansia suaveolens</i> (Humb. & Bonpl. ex Willd.) Bercht. & J. Presl
295	Khursani	<i>Capsicum annum</i> L.
296	Dhatura	<i>Datura stramonium</i> L.
297	Khursani Jwanu	<i>Hyoscyamus niger</i> L.
298	Surti, Kanchopat	<i>Nicotiana tabacum</i> L.
299	Jangali Mewa	<i>Physalis peruviana</i> L.
300	Kaligedi, Kalo Bihin	<i>Solanum americanum</i> Mill.
301	Kaligedi	<i>Solanum nigrum</i> L.
302	Kantakari	<i>Solanum virginianum</i> L.
303	Lodh	<i>Symplocos paniculata</i> (Thunb.) Miq.
304	Deuraali Phool	<i>Stellera chamaejasme</i> L.
305	Tusaare	<i>Debregeasia longifolia</i> (Burm.f.) Wedd.
306	Gagleto	<i>Elatostema sessile</i> J.R. Forst. & G. Forst.
307	Lipe/Seti Niche Saag	<i>Pouzolzia sanguinea</i> (Blume) Merr.
308	Simali	<i>Vitex negundo</i> L.
309	Baakhre Lahara	<i>Parthenocissus semicordata</i> (Wall.) Planch.
310	Reldonate	<i>Allium stracheyi</i> Baker
311	Banko	<i>Arisaema flavum</i> (Forssk.) Schott
312	Sarpako Makai	<i>Arisaema jacquemontii</i> Blume
313	Tribanka, Sarpako Makai	<i>Arisaema tortuosum</i> (Wall.) Schott
314	Ban Kurilo, Laudu	<i>Asparagus filicinus</i> Buch.-Ham. ex D. Don
315	Van Kasur	<i>Ophiopogon intermedius</i> D. Don
316	Kane Ghanse	<i>Commelina benghalensis</i> L.
317	Mothe, Chhaire	<i>Cyperus iria</i> L.
318	Kasur, Mothe	<i>Cyperus rotundus</i> L.
319	Sano Mothe	<i>Kyllinga brevifolia</i> Rottb.
320	Medicinal Yam/ Elephant's foot	<i>Dioscorea deltoidea</i> Wall. ex Griseb.
321	Cowan Yam/ Five leaf Yam	<i>Dioscorea pentaphylla</i> L.
322	Ghiu Pat	<i>Cardiocrinum giganteum</i> (Wall.) Makino

323	Dakle Khar	<i>Apluda mutica</i> L.
324	Igari, Irnu, Phurki, Kharroki	<i>Arundinella nepalensis</i> Trin.
325	Jai	<i>Avena sativa</i> L.
326	Kuro	<i>Chrysopogon aciculatus</i> (Retz.) Trin.
327	Bans	<i>Dendrocalamus strictus</i> (Roxb.) Nees
328	Kush	<i>Desmostachya bipinnata</i> (L.) Stapf
329	Kode jhar, Bankande	<i>Eleusine indica</i> (L.) Gaertn.
330	Babiyo	<i>Eulaliopsis binata</i> (Retz.) C.E.Hubb.
331	Arthunge	<i>Heteropogon contortus</i> (L.) P.Beauv. ex Roem. & Schult.
332	Siru	<i>Imperata cylindrica</i> (L.) Raeusch.
333	Ginger Grass	<i>Paspalum distichum</i> L.
334	Jak, Narkat	<i>Phragmites karka</i> (Retz.) Trin. ex Steud.
335	Kalo Haiedo, Haiedo, Barkhe	<i>Curcuma angustifolia</i> Roxb.
336	Doopi	<i>Juniperus communis</i> L.
337	Dhoopi	<i>Juniperus recurva</i> Buch.-Ham. ex D.Don
338	Somlata	<i>Ephedra intermedia</i> Schrenk & C.A.Mey.
339	Rani Sallo	<i>Pinus roxburghii</i> Sarg.
340	Kalee Niuro	<i>Cyrtomium caryotideum</i> (Wall. ex Hook. & Grev.) C. Presl
341	Thulo Nyuro	<i>Polystichum squarrosus</i> (D. Don) Fée
342	Aankhle Jhar	<i>Equisetum arvense</i> L.
343	Janai Lahara	<i>Lygodium japonicum</i> (Thunb.) Sw.
344	Kane Sinka Pakhale Unyu	<i>Adiantum capillus-veneris</i> L.
345	Tinkhutte Sottar	<i>Pteris wallichiana</i> J. Agardh

Annex 23: Non-Timber Forest Products (NTFPS) Inventory and Sustainable Harvesting Plan for ACA



Annex 24: Livestock depredation (2069-2080 BS)														
Year		Livestock											Total Year wise	
		Ox	Cow	Hen	Yak	Gauri	Goat	Buffalo	Mountain Goat	Jhopa	Sheep	Horse		Total
2069/70	Common leopard	0	1	0	0	0	25	1	0	0	0	0	27	27
	Snow leopard	0	0	0	0	0	0	0	0	0	0	0	0	
2070/71	Common leopard	1	3	0	0	0	31	3	0	0	3	0	41	41
	Snow leopard	0	0	0	0	0	0	0	0	0	0	0	0	
2071/72	Common leopard	2	3	0	0	0	41	3	0	0	0	0	49	57
	Snow leopard	0	0	0	0	0	1	0	0	0	0	7	8	
2072/73	Common leopard	4	3	0	2	0	107	6	0	0	12	0	134	354
	Snow leopard	0	0	0	36	0	152	0	0	1	14	17	220	
2073/74	Common leopard	8	3	0	0	0	63	5	0	0	1	0	80	129
	Snow leopard	1	0	0	0	0	11	0	20	0	1	1	34	
	Leopard Cat	0	0	15	0	0	0	0	0	0	0	0	15	
2074/75	Common leopard	4	3	0	2	0	63	10	41	0	5	0	128	164
	Snow leopard	0	0	0	4	0	13	0	0	0	3	1	21	
	Leopard Cat	0	0	15	0	0	0	0	0	0	0	0	15	
2075/76	Common leopard	5	9	0	3	0	65	7	3	0	11	0	103	186
	Snow leopard	51	0	0	0	0	7	0	22	0	0	1	81	
	Wolf	0	0	0	0	0	0	0	1	0	0	1	2	
2076/77	Common leopard	1	4	0	0	0	50	7	0	0	0	0	62	331
	Snow leopard	0	14	0	87	12	101	0	24	0	8	9	255	
	Wolf	0	0	0	0	0	0	0	0	0	2	12	14	
2077/78	Common leopard	0	5	0	0	0	47	8	0	0	6	0	66	431
	Snow leopard	15	9	0	39	89	198	0	0	1	0	14	365	
2078/79	Common leopard	1	1	0	0	0	23	6	0	0	7	0	38	139
	Snow leopard	4	2	0	34	20	39	0	0	1	0	1	101	
2079/80	Common leopard	0	2	103	21	0	25	17	0	0	12	0	180	252
	Snow leopard	4	6	0	15	4	31	0	12	0	0	0	72	
		101	68	133	243	125	1093	73	123	3	85	64	2111	2111

Snow Leopard captured in ACAP camera trap survey 2024, Manang



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