

Improving Climate Resilience of Vulnerable Communities and Ecosystems in the Gandaki River Basin, Nepal

Annex 10: Procurement Plan

Part I: Introduction

This part describes the general background of the project.

About the Project: The International Union for Conservation of Nature (IUCN), as an accredited entity, is submitting a proposal to the Green Climate Fund (GCF) to improve resilience to the negative impacts of climate change of ecosystems, ecosystem services and people in the Gandaki River Basin, Nepal. The idea for this project was selected by the National Designated Authority of Nepal (the Ministry of Finance) to proceed with the preparation of a full funding proposal. The preparation of the full proposal was supported by UNEP under its Readiness fund for Nepal.

Duration of the project: The project is for 7 Years starting from Jan 2020 to December 2026.

Project budget: The proposed budget is US\$ 32.715m, out of which US\$ 27.404m is a grant from GCF and US\$5.31m co-financing from the consortium members.

The proposal preparation process is led by the Ministry of Forests and Environment. There are three members in the consortium.

- Department of Forests and Soil Conservation (DOFSC) - government
- International Union for Conservation of Nature (IUCN) - GCF accredited agency
- National Trust for Nature Conservation (NTNC) - is fully autonomous government agency in the process of obtaining accreditation from GCF. It has been nominated by the NDA for accreditation.

About this Document

This document describes the project implementation and execution arrangements to effectively and efficiently deliver the expected results.

Project objective and component-wise outcome and outputs

Objective: To improve climate resilience of the vulnerable communities and ecosystem in the Gandaki River Basin, Nepal.

Results: The impact of the project will be "improved resilience to the negative impacts of climate change of ecosystems, ecosystem services and people in the Gandaki River Basin". This will be measured by "reduction of overall climate vulnerability and site-specific vulnerabilities, as measured by vulnerability indices, in the Gandaki River Basin".

The outcome and output results will be as presented in Table 1.

Table 1: Expected results by outcomes and outputs

Outcomes	Outputs	Activities
Outcome 1: Enhanced resilience of livelihoods of the vulnerable communities through adapting to	Output 1.1: Climate resilient agroforestry and livelihood improvement actions implemented for coping with extreme events	1.1.1: Establish climate resilient agroforestry practices
		1.1.2: Construct small nature-based structures (bamboo check dams, plantations of grass and trees)
		1.1.3: Promote drought and flood tolerant varieties (at least one drought tolerant variety (wheat) for hill districts and one flood tolerant (paddy) variety for Terai and plain areas in the Chure and Inner Terai.

	Output 1.2: Interventions for water availability and water use efficiency from irrigation systems and improved water sources implemented	1.2.1: Reconcile Water Model for Entire Gandaki River Basin
		1.2.2: Construct small scale irrigation systems through improved community participation
		1.2.3: Establish water harvesting systems (conservation ponds, water reservoirs) and promote water use efficiency through drip and sprinkle irrigation, and use of waste water
		1.2.4: Improve water availability through construction and maintenance of water holes in community grasslands
Outcome 2: Strengthened climate resilience of ecosystems	Output 2.1: Natural ecosystem restoration based actions implemented for reducing impacts of landslides and floods	2.1.1: Construct climate resilient green belts to protect forests, wetlands, grasslands and conservation ponds from landslides and floods
		2.1.2: Apply bio-engineering techniques to provide structural support for erosion prone rural forest roads.
		2.1.3: Restore the biodiversity of vulnerable forests and grassland ecosystems through the removal and (productive) reuse of invasive species
	Output 2.2: Technical capacity of GRB communities enhanced in maintaining and supporting climate resilient ecosystems	2.2.1: Create new SOP's that support future interventions on agroforestry, forestry, wetlands and grasslands management 2.2.2: Provide technical training to enhance capacity of CFUGs and NGOs in vulnerable communities in maintaining climate resilient ecosystems
Outcome 3: Strengthened climate governance and institutional framework to sustain climate	Output 3.1: Community-based mechanism for planning, restoration, monitoring, and maintenance of ecosystems established	3.1.1: Technical assistance for community based planning and development of site specific management structure and tools for conservation and restoration of ecosystem
		3.1.2: Develop community-based monitoring and maintenance programmes through the local and regional management structures to maintain restored ecosystems
		3.1.3: Training and supporting communities in clusters to track the restoration and conservation of the ecosystems in target areas
		3.1.4: Link upstream and downstream vulnerable communities through climate informed management of spring-shed and water source protection
	Output 3.2: Ecosystem-based climate change adaptation approaches incorporated into government policies and plans	3.2.1: Prepare River Basin Management framework with integrated sub-riverine watershed and water resource management plans for the GRB that includes forests, grasslands, fisheries, wetlands and agro-ecosystems.
		3.2.2: Develop a framework for assessment for economic valuation of ecosystem and ecosystems services to support planning
		3.2.3: Policy Development for local governments to incorporate climate change adaptation and EbA into their Integrated Development Plan
	Output 3.3: Knowledge management established for climate resilient River Basin Management	3.3.1: Establish National and GRB level system for collating data and information on global best practices, lessons learnt, evidence from the field and scientific knowledge on ecosystem- and community-based approaches to adaptation.
		3.3.2: Capacitating three Provincial governments in creating and operationalising an online platform and associated mobile phone application to facilitate access to information in the Decision-Support Tool for decision-makers, communities, NGOs/CBOs and other relevant stakeholders, as well as to allow them to upload data for tracking changes in ecological and socio-economic vulnerability to climate change in the GRB
		3.3.3: Generation of the baselines data and mapping of vulnerability, hazard sites, ecosystem services and facilities in communities based on risk profiles.
		3.3.4: Establish climate change adaptation knowledge sharing and learning structures within key clusters to facilitate climate resilient planning and management

Part II: Procurement Plan

This part describes the project procurement plan. It focuses on: a) cost components of the project activities as per Annex 4; b) ensuring value for money and compliance with IUCN's procurement policy (IUCN as the AE is the implementing agency); and c) the requirements of the government of Nepal (as the project executing agency is the Ministry of Forests and Environment).

Section A: Budget Background

Total Budget and GCF Grant Component

The total budget of the project is US\$ 32,714,530 for a period of seven years. There are three sources of the total budget: GCF grant component is 27,404,139; Country's cofinancing component is US\$ 4,745,362; and AE's contribution is US\$ 565,029 (Table 2).

Table 2: Total budget

Source	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Total
GCF	2,908,095	4,536,988	5,852,715	5,247,905	3,802,384	3,009,147	2,046,905	27,404,139
Country	565,965	611,828	642,983	676,084	711,272	748,700	788,531	4,745,362
AE	156,575	156,575	156,575	23,840	23,840	23,840	23,785	565,029
Total	3,630,635	5,305,391	6,652,273	5,947,828	4,537,496	3,781,686	2,859,221	32,714,530

Cost Components of the Project Budget

As given in the GCF budget template, there are eight types of costs as follows.

Staff cost: There are two types of costs - 1) Overall project management staff cost supported by the project. It covers the cost of major management staff such as coordinator/team leader, admin cum finance staff, support staff. 2) Co-financing cost which comes as a field staff cost of government and NTNC staff who will be deputed to the project. Government and NTNC have already given their commitment letter (see Annex 13). IUCN Nepal will provide a field staff and communication staff support from its ongoing project in GRB.

Local consultant costs: These costs relate to hiring short term experts on various aspects. The experts are to consult with the community, identify the site specific current situations, prepare design, supervise the implementation of those designs, etc. Hence, this cost depends upon the type of activity and expert required and a time frame that the expert is required.

Essential inputs and material costs: This includes cost of purchasing of various planting materials, demonstration of technology, construction materials, equipments and tools, equipment for biocharring and briquette making, establishing site specific management structure and tools for conservation and restoration of ecosystem, etc. Unit cost therefore varies with the type of materials to be purchased which will be determined by the community during annual planning with them.

Vehicle and related costs: This cost is to purchase two pick-ups (one for PMU) and one for field Office) for the transportation of construction and plantation materials to and from the field; one Jeep for inspection of field and monitoring of construction and plantation works; and five motorbikes for monitoring in rural area where four-wheel vehicles cannot ply. The cost will be as follows:

one Jeep = US\$60,000; two pick-ups = US\$ 120,000 (2*60,000); five motorbikes = US\$ 20,000 (5*4,000) in the first year.

From the second year onwards, the cost is for driver, fuel, and maintenance including insurance which comes to NRs 1,500,000 per annum. This also includes the cost of transportation for the implementation of field activities on the ground.

Construction costs: This cost refers to the construction of supporting structures, constructing small nature-based structures such as bamboo check dams, bonds, diversions, small water storages, small irrigation structures, etc. As the construction activities are of different nature, the exact design will depend on the characteristics of the site for construction of such structures. For this reason, unit costs also vary accordingly.

Training, Workshop and conference costs: This cost refers mainly to the capacity development training of various duration at various levels - local to federal and from farmers to extension workers and policy makers. In addition, this cost also refers to the cost of various workshops and conferences of various duration at various levels - national (local, provincial and federal (central)) and international.

Travel and DSA costs: The cost of travel and DSA is meant to cover the cost of field activity implementation by the consultant and the local government authorities. This includes also the cost on leader farmer in the community who will accompany the project team in supervising the field implementation of project activities.

Professional/Contractual services costs: This is an overall consulting cost of the project activity. This includes community consultation, identification of detail need, preparation of detail design, implementation of such plans, and handover to the project team. Depending upon the nature of work, the project budget varies for each consulting work.

GCF Grant Budget Breakdown

The yearwise breakdown of the GCF grant budget is presented in Table 3. There are five types of costs namely cost for field activity implementation, gender action plan implementation, ESMF implementation, project start-up, monitoring, evaluation and closing; and overall project management cost.

Table 3: GCF Budget Grant

Cost description		Yearwise budget breakdown							
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Total
For field activity	Staff Cost	-	-	-	-	-	-	-	-
	Local consultants	418,759	326,048	221,078	85,356	79,230	15,655	15,655	1,161,781
	Essential inputs and materials	785,730	1,785,275	1,807,366	1,343,457	148,639	131,093	125,639	6,127,198
	Equipment and related	45,527	55,836	42,727	33,182	33,182	5,000	1,818	217,273
	Vehicle and related	33,641	233,095	36,250	24,462	22,380	18,926	14,835	383,588
	Construction cost	512,727	976,364	1,962,195	2,054,568	1,811,386	1,644,114	1,047,373	10,008,727
	Training, workshops, and conference	78,748	232,243	423,668	350,119	268,588	173,699	65,117	1,592,181
	Travel and DSA	304,409	175,487	172,423	24,517	20,837	11,251	11,022	719,945
	Professional/ Contractual Services	400,886	456,108	887,663	1,015,873	1,146,198	724,983	454,727	5,086,438
	Sub-total	2,580,428	4,240,457	5,553,370	4,931,532	3,530,439	2,724,720	1,736,185	25,297,132
Gender action plan (GAP)	Gender action plan activity cost as in Annex 8	10,091	20,182	20,182	20,182	10,091	10,091	10,091	100,909
	Technical resource person	5,062	7,593	7,593	7,593	7,593	7,593	7,593	50,618
	Travel and DSA	1,477	1,818	1,818	1,818	1,818	1,818	1,818	12,386
	Sub total	16,630	29,593	29,593	29,593	19,502	19,502	19,502	163,914
Environment and social monitoring framework (ESMF)	ESMF action plan activity cost as in Annex 6b	15,000	30,000	30,000	30,000	15,000	15,000	15,000	150,000
	Technical resource person	11,389	15,185	15,185	15,185	15,185	15,185	15,185	102,502
	Travel and DSA	2,386	3,636	3,636	3,636	3,636	3,636	3,636	24,205
	Sub total	28,775	48,822	48,822	48,822	33,822	33,822	33,822	276,706
Start-up, monitoring, evaluation and closing	Start-up, monitoring, evaluation and closing activities	96,564	49,291	49,291	62,927	40,200	49,291	78,382	425,945
Project management cost (PMC)	Staff Cost	69,218	98,414	101,805	105,196	108,586	111,977	111,889	707,086
	Travel and DSA	25,885	25,885	25,307	25,307	25,307	25,307	25,930	178,928
	Equipment and furniture	60,609	4,545	4,545	4,545	4,545	4,545	4,545	87,882
	Office running costs	29,986	39,982	39,982	39,982	39,982	39,982	36,650	266,545
	Sub total	185,698	168,826	171,640	175,030	178,421	181,812	179,014	1,240,441
Total grant from GCF		2,908,095	4,536,988	5,852,715	5,247,905	3,802,384	3,009,147	2,046,905	27,404,139

Formulation of Procurement Plan

This procurement plan is prepared on the basis of the activity plans and descriptions stated in Section E.6 of the Funding Proposal, activity implementation time table presented in Annex 5, and the budget for each activity presented in Annex 4.

Limitation of the Plan

This procurement plan is prepared on the basis of the broader needs of the project to implement a particular activity on the ground. For example: for enrichment planting - we need saplings of various nature, tree, fodder, forage, agroforestry, etc; and we need various tools such as spades, shovels, secateurs, pruning saws, etc. The detail of each of such items will be determined by the community and the field technician at the time of carrying out plantation work. Hence, exact type of sapling or tool and the number could not be determined. For this reason, the costs are estimated on lumpsum basis.

Section B: Background to IUCN Procurement Procedure

Procurement Policy

IUCN as an Accredited Entity of the Green Climate Fund has its own procurement policy that shall be applied to IUCN managed projects. Accordingly, procurement for this project will be guided by the IUCN's Policy and Procedure on Procurement of Goods and Services available [here](#)¹.

The purpose of IUCN's Policy is to establish a standard professional procurement policy and elaborate standard procedures to ensure that IUCN obtains value for money in all its procurement activities and that procurement is conducted in an efficient and cost-effective manner that respects sustainability, the environment, and ethical principles. This policy forms part of the IUCN Operational Policy Framework and is related to other policies including: IUCN Delegation of Authority; IUCN Code of Conduct and Professional Ethics for the Secretariat; IUCN Anti-fraud policy; and Procedures for Requesting and Using Legal Advice and Support.

In addition, the project will comply with relevant guidelines and directions of the Government of Nepal.

Overview of IUCN Procurement Procedure

IUCN's procurement policy covers the purchase of goods and works² and services³, including the lease or rental of equipment, premises, facilities or vehicles. The policy applies to the procurement of services provided by implementing partners, unless the partner is providing services under the joint venture and the partner has been named in a donor agreement. The Policy applies to amendments or extensions of existing contracts where the total contract value is increased.

IUCN is committed to ensuring that procurement is conducted to a high standard and that best practices are adhered to at all times. The method and approval of procurement is dependent on the value of Goods or Services.

- For all contracts above CHF 25,000 and below CHF 100, 000, contractors are selected through a formal competitive process where a minimum of 3 proposals are considered from identified suitable suppliers, unless an exception from competition is justified and formally granted.

¹ <https://www.iucn.org/procurement>

² Good and works include materials, supplies and the construction of physical infrastructure

³ Services include those provided by consulting firms or individual consultants (including IUCN commission members), educational and research institutions, service companies, and government and non-government organizations

- For any competitive procurement with an estimated value of CHF 100,000 or higher, there is a need to issue a formal request for proposals to a broad selection of potential suppliers. The Request for Proposal must be advertised on the IUCN website and the Resulting award must also be published on the IUCN website.

The exact process for taking part and submitting a Proposal varies from case to case. The relevant information is included in each published Request for Proposals (RfP). The competitive process is rigorous and designed to determine the best combination of quality and costs.

IUCN ensures that all potential suppliers are subject to the same conditions and that information received is confidential. In addition, suppliers shall - 1) adhere to sound environmental practices; 2) maintain ethical business practices always; 3) not be involved in any form of corruption or any fraudulent activities; and 4) not engage in any collusive or coercive practices.

IUCN seeks to minimise environmental impacts in all its procurement decisions. Suppliers and Proposals are evaluated based on both environmental and commercial factors, determined as appropriate for each individual purchase, and including: capacity and expertise; whole-life-cost; quality; fit to requirements; environmental policy, impact and risk management approach; financial health of the Supplier; previous experience and reputation.

Purchases are evaluated using a variety of criteria clearly detailed in each RfP. Only the criteria and their relative importance as stated in the RfP will be used to evaluate Proposals.

Exclusion Criteria

Suppliers are excluded from taking part in a procurement procedure if they or persons having powers of representation, decision-making or control over them:

- have a conflict of interests, real or perceived, that may affect, or may be perceived to affect, them in the execution of their responsibilities under the proposed contract;
- are not registered on the professional or trade register of the State in which they are established;
- have been convicted of failing to comply with environmental regulatory requirements or other legal requirements relating to sustainability and environmental protection;
- are bankrupt or being wound up, are having their affairs administered by the courts, have entered into an arrangement with creditors, have suspended business activities, are the subject of proceedings concerning those matters, or are in any analogous situation arising from a similar procedure provided for in national legislation or regulations;
- have been convicted of an offence concerning their professional conduct by a judgment of a competent authority which has the force of res judicata;
- have been guilty of grave professional misconduct;
- are not in compliance with their obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which they are established or with those of Switzerland or those of the country where the contract is to be performed;
- Have been the subject of a judgment which has the force of res judicata for fraud, corruption, involvement in a criminal organisation, money laundering or any other illegal activity.

Complaints procedure

The contact details and processes for communicating as part of a tender are detailed in each respective RfP. These must be followed in the first instance.

Attempts at communicating with IUCN regarding an ongoing competitive process in any way other than as prescribed in the RfP may lead to the disqualification of the Proposal/Bidder. For any complaint or concern regarding the propriety of how a competitive process is being or has been executed, procurement@iucn.org may be contacted. Such complaints or concerns are treated as confidential and are not considered in breach of the above restrictions on communication.

Procurement procedures for the Project

Monitoring of Procurement: The project implementing agency (IUCN) will ensure that all procurement by the executing agency and partners is in line with IUCN's procurement policy.

Procurement Items:

The major procurement identified in the project design are (detail is provided in the budget).

- Office accommodation
- Staff
- Contract services including consultancies, publication, communication, repair and maintenance
- Vehicles and equipment
- Electronic goods and services
- Security services
- Furniture and fixtures
- Stationaries and educational materials

Procurement Plan:

- All procurement of goods, works and services will be made with complete impartiality based solely on the merits of supplier proposals, including such considerations as cost, quality, environmental impact, delivery, and payment terms.
- All purchase decision shall take into consideration the environmental policy of the supplier and the environmental impact of the goods or services to be procured, with a view to minimizing the environmental impact of the procurement. Environmental considerations include an assessment of the need for the procurement and the environmental impact of the eventual disposal of any goods procured.
- Goods shall only be accepted if they are received in good condition and meet the prescribed standard.
- Procurement contracts shall be entered only with responsible suppliers who are reputable, well established and are suppliers of the type of goods and services being purchased in the normal course of their business.

Parts of the project area are relatively remote and require transport on sealed and unsealed roads that are often in poor condition. The most suitable vehicles for project activity are dual cab four-wheel drive diesels and motorcycles. Vehicles will be procured at the commencement of the project to ensure the project activities are undertaken in a timely manner. Vehicles will be maintained in good order for the duration of the project; this will require procurement arrangements for insurance, vehicle servicing and repair and spare parts including tyres.

Office accommodation is likely to require rental of premises, some renovations, furnishing and equipping with computers, electrical surge protection and back up, security and telecommunications. Office accommodation(s) will be procured at the commencement of the project and maintained in good order for the duration of the project.

Given the large distances in the Project area and the poor state of roads, it will be necessary to arrange several small sub-offices or depots in at least some of the towns included in the project activities.

The project budget includes funds for; stationery and consumables, furniture, common equipment and renovation, field equipment for staff, biodiversity monitoring equipment, computer equipment, electronics, power generation and security, vehicle running costs, vehicle hire (for periods before vehicles can be purchased and for occasions when large numbers of people need transport e.g. training courses), tele-communications, project marketing and up-scaling materials, teaching materials, training materials, utilities and miscellaneous items.

The procurement in this project will be in two ranges of procurement policy: CHF 25,000 to 99,999 and less than CHF 25,000.

For the procurement of goods and services of value CHF 25,000 to 99,999, the procurement process will be as presented in presented in Figure 1.

For the procurement of Goods and Services for values under CHF 25,000, competitive bidding is not essential but should be considered where the benefits of competitive tendering in terms of price and quality will outweigh the costs.

In order to ensure that IUCN obtains value for money an understanding of the market value of the goods and services to be procured must be obtained. This could be acquired by obtaining quotations, checking price lists, or by comparison with similar purchases.

Inventory of Goods Procured

Purchased goods (other than consumables) will be registered in IUCN's standard inventory record. An updated record will be maintained about the status and whereabouts of the purchased goods. The inventory will be verified on a yearly basis and a report prepared.

An updated inventorying report will be made available to the GCF/IA (IUCN) at the end of each year.

Accounting and Reporting

Fund released by the GCF/AE will be accounted in the separate bank accounts and the bank account will be controlled by minimum two authorized signatories (as per the IUCN delegation of Authority) and account's transactions and balances will be reconciled minimum the monthly basis.

Each and every transaction occurred for the project will be posted in the Accounting software (currently Microsoft Dynamics NAV) with proper GL Codes in the respective budget line by the IUCN Finance-in-charge after the verification of the nodal head and authorized project manager or budget holder. Financial Report along with Inventory report will be produced on trimester basis together with the liquidity forecast for next trimester and will be submitted to the GCF/AE. Records of Financial transaction along with the supportive administrative documents and reports. Documents will be retained confidentially kept secured for maximum 10 years after the project ending date. Besides, the Annual Financial Audit will be carried out for the verification of the budget versus expenditures and Auditor's Report along with Notes will be made available to the GCF/AE.

Besides, financial instruments such as bank guarantee, bid bond, performance bond, insurances will be required from the vendors/suppliers of goods and services on need basis to minimize the risks.

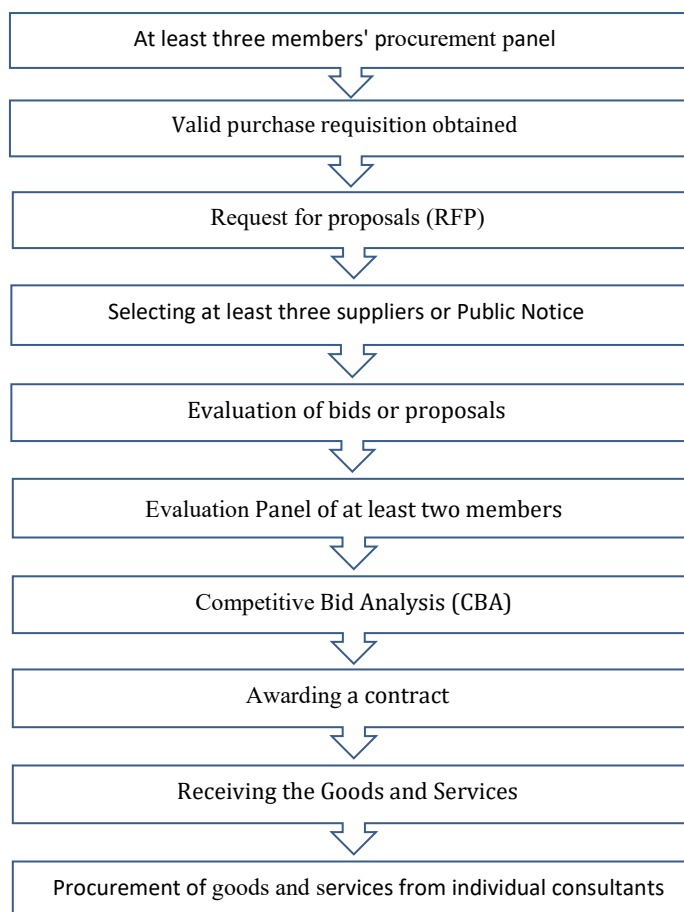


Figure 1: Procurement flow chart for more than CHF 25,000 to 99,999

Section C: Procurement Plan

I. General

1. **Project information:** Improving Climate Resilience of Vulnerable Communities and Ecosystems in the Gandaki River Basin, Nepal
2. **Version of the Plan:** Version 2.0 dated 09 May 2019
3. **Approval Date of the procurement Plan:** XXX
4. **Date of General Procurement Notice:** XXX
5. **Period covered by this procurement plan:** 01 Sept., 2020 to 28 Feb., 2021
6. **Other Arrangements: Example:** The project will provide grants to Government, Civil Society, Private sector and regional organizations. The Accredited Entity's approved Procurement and Consultant Guidelines reviewed and accepted by the Fund will apply under these grants. Procurement will be carried out by Grant Recipients themselves and procurement plan will be agreed between the AE and Grant Recipient

II. Goods, Works and non-consulting services.

1. **Prior Review Threshold:** Procurement Decisions subject to Prior Review by the AE/Fund

SN	Procurement Method	Threshold for use of method	Prior Review Threshold	Comments
1.	General Survey - Competitive Method	Vendor CHF ≥ 1 to $\leq 24,999$	No	As per IUCN Policy
2.	3 Proposal Competitive Method	Vendor CHF $\geq 25,000$ to $\leq 99,999$	Yes	
3.	Formal Request for Proposal	Vendor CHF $\geq 100,000$	Yes	

2. **Prequalification** (for complex Civil Works): N

Year 1 (12 Months)

1	2	3	4	5	6	7	8	9	10	11	12	13
Ref. No. (Budget Line)	Contract (Description)	Source of Funds	Planned vs Actual	Estimated Cost in US\$	Procurement Method	Pre qualification (yes/no)	Domestic Preference (yes/no)	Review by AE/Fund (Prior / Post)	Date of issuance of doc's	Bid-Opening Date	Date of contract /order signature	Comments
1.1.1	Vehicle Hire	GCF	Planned	20,184.34	General Survey Competitive Method	No	Yes	No	Q1toQ4-Y1	Q1toQ4-Y1	Q1toQ4-Y1	This cost refers to the cost of local transportation in the field including cost of vehicle hire for some hours and fuel cost of the vehicles locally available with the local government. The cost of activity implementation monitoring by the consultant and local government representative is also covered by this cost. This is 60% of the Vehicle Related Costs planned for Vehicle Hire and can be used during the first year for various level of activities.
1.1.2	Essential inputs and materials											
	· Bund protection dams by bamboo and local materials Total Sites. 12	GCF	Planned	13,818.18	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This includes cost of purchasing planting materials and other construction materials to stabilize the earth from landslides and other disasters. The fine detailing of cost will be done by the consultant prior to construction of check dams.
	· Construction of check-dams and plantation of grass and trees involving participation of communities. Total Locations 15	GCF	Planned	10,363.64	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This includes cost of purchasing planting materials and other construction materials to stabilize the earth from landslides and other disaster. The fine detailing of costs will be done by the consultant prior to construction of check dams.

1.1.2	Equipment and related											
	· Bund protection dams by bamboo and local materials Total Sites. 12	GCF	Planned	11,400.00	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	Field equipments and associated equipments for the construction of check dams
	· Construction of check-dams and plantation of grass and trees involving participation of communities. Total Locations 15	GCF	Planned	11,400.00	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	Field equipments and associated equipments for the construction of check dams
1.1.2	Construction cost											
	Construction of Bunds.- Total Sites.12	GCF	Planned	163,636.36	Formal Request for Proposal	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This involves the cost of constructing small nature-based structures such as bamboo check dams, plantations of grass and trees. The appropriate design and appropriate bioengineering technology will be selected or modified based on details given in Annex 2b. This includes the cost of 60 Bund protection dams, 7 Diversion channels, and 15 check-dams and plantation of grass and trees involving participation of communities.
	Construction of Diversion channel- Total Sites. 2	GCF	Planned	44,545.45	3 Proposal Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This involves the cost of constructing small nature-based structures such as bamboo check dams, plantations of grass and trees. The appropriate design and appropriate bioengineering technology will be selected or modified based on details given in

												Annex 2b. This includes the cost of 60 Bund protection dams, 7 Diversion channels, and 15 check-dams and plantation of grass and trees involving participation of communities.
	Construction of Checkdams-Total Locations 3	GCF	Planned	68,181.82	3 Proposal Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This involves the cost of constructing small nature-based structures such as bamboo check dams, plantations of grass and trees. The appropriate design and appropriate bioengineering technology will be selected or modified based on details given in Annex 2b. This includes the cost of 60 Bund protection dams, 7 Diversion channels, and 15 check-dams and plantation of grass and trees involving participation of communities.
1.1.2	Training, workshops, and conference											
	Training on · Bund protection dams by bamboo and local materials. Total Sites 12 X 1800 Participants Lump Sum Costs	GCF	Planned	3,927.27	General Survey Competitive Method	No	Yes	No	Q2-Y1	Q2-Y1	Q2-Y1	The community members will be provided with training on the selection of nature based structures such as bamboo check dams, plantations, etc. The project will specifically provide training on how to construct small nature-based structures and maintain them after the project.
	Training on · Diversion channels Total Sites 2 X 210 Participants Lumpsum Costs	GCF	Planned	458.18	General Survey Competitive Method	No	Yes	No	Q2-Y1	Q2-Y1	Q2-Y1	The community members will be provided with training on the selection of nature based structures such as bamboo check dams, plantations, etc. The project will specifically provide training on how to construct small nature-based structures and maintain them after

												the project.
	Training on · Construction of check-dams and plantation of grass and trees involving participation of communities. Total Locations 3X 450 Participants Lumpsum Costs	GCF	Planned	981.82	General Survey Competitive Method	No	Yes	No	Q2-Y1	Q2-Y1	Q2-Y1	The community members will be provided with training on the selection of nature based structures such as bamboo check dams, plantations, etc. The project will specifically provide training on how to construct small nature-based structures and maintain them after the project.
1.1.3	Essential inputs and materials											
1.1.3	· Conducting extension programme to reach-out to all potential farmers --for Qty 9	GCF	Planned	725,454.55	Formal Request for Proposal	No	Yes	No	Q1-Y1	Q1-Y1	Q1-Y1	This cost is for the purchase of materials and inputs for conducting extension programme to propagate identified flood and drought crop varieties. The detailed costs will be worked out when the project agronomist consultant is recruited. The cost mentioned here is based on the average cost for such works.
1.2.2	Essential inputs and materials	GCF	Planned	4,545.45	General Survey Competitive Method	No	Yes	No	Q2-Y1	Q2-Y1	Q2-Y1	For the purchase of local materials to construct field sheds for the demonstration of technology.
1.2.2	Construction cost											

	<ul style="list-style-type: none"> Construct the scheme and handover to the user's group -- for 20 Users' Group (Small Scale Irrigation Scheme) 	GCF	Planned	236,363.64	Formal Request for Proposal	No	Yes	No	Q4-Y1	Q4-Y1	Q4-Y1	<p>This is mainly for the construction of small scale irrigation systems through improved community participation. This community owned system will be developed, implemented and managed by the community themselves. There will be 300 (100 small, and 200 micro) such schemes constructed. Some micro schemes will be also constructed in some small isolated vulnerable pockets. This will involve the cost of designing, purchased inputs, transportation, skilled labour and technical resource person cost. The detailed cost of each scheme will be estimated when the consultant engineer will identify the exact type of scheme in specific sites in consultation with the beneficiaries. The cost estimated here is based on the average cost from other similar projects.</p>
1.2.2	Training, workshops, and conference											
	<p>Training for</p> <ul style="list-style-type: none"> Establish Irrigation Water Users' Group (IWUG) with group mobilisation by-laws for construction, operation, and maintenance of the scheme to be constructed --for Total 150 Nos. Estimating Approx 4500 Persons 	GCF	Planned	49,090.91	3 Proposal Competitive Method	No	Yes	No	Q4-Y1	Q4-Y1	Q4-Y1	<p>The community members will be provided with the awareness training on the importance of small and micro irrigation schemes based on gravity flow. Farmers will be trained on the selection of appropriate small or micro irrigation scheme based on specific site, source of water and gravity, the specific design amongst the ones presented in Annex 2b. This training also includes process to maintain the schemes after construction involving community participation.</p>

1.2.4	Essential inputs and materials											
	· Establish Waterhole Management Group (WMG) with group mobilisation by-laws for construction, operation, and maintenance of the holes to be constructed--for Total Nos 10	GCF	Planned	13,636.36	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This includes cost of materials and inputs to support the communities in making the waterholes. Cost support will be provided through users' committees for the market purchased inputs, skilled labour and designing cost.
1.2.4	Training, workshops, and conference											
	Training on · Establish Waterhole Management Group (WMG) with group mobilisation by-laws for construction, operation, and maintenance of the holes to be constructed -- for Total 10 Nos	GCF	Planned	3,272.40	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This training is meant for forming the Water hole Management Group of farmers for selection, construction, operation and maintenance of the waterholes. The trained farmers will be mostly livestock herder and thus will ensure livestock herding and continue livestock farming rather than migrating abroad leaving the farm.
	Training on · Workout with the livestock herders on the number of required and feasible number of waterholes -- for Total 10 Nos	GCF	Planned	3,272.40	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	
2.1.2	Training, workshops, and conference											

	Training on · Selection and designing/modification of appropriate bioengineering technology (see Annex 2b for detail) for providing structural support -- for 10 Nos. Approximately 600 Participants	GCF	Planned	3,000.00	General Survey Competitive Method	No	Yes	No	Q2-Y1	Q2-Y1	Q2-Y1	The community members will be provided with training on identification of the exact landslide prone rural road and location for construction of structural support in consultation with the communities, selection and designing/modification of appropriate bioengineering technology (see Annex 2b for detail) for providing structural support, identification of species for plantation and planting along 70 km landslide prone rural road. Apply bio-engineering techniques to provide structural support for erosion prone rural forest roads.
	Training on · Identification of species for plantation and planting along 70 km landslide prone rural road -- for 10 Nos. Approximately 600 Participants	GCF	Planned	2,727.27	General Survey Competitive Method	No	Yes	No	Q2-Y1	Q2-Y1	Q2-Y1	The community members will be provided with training on identification of the exact landslide prone rural road and location for construction of structural support in consultation with the communities, selection and designing/modification of appropriate bioengineering technology (see Annex 2b for detail) for providing structural support, identification of species for plantation and planting along 70 km landslide prone rural road. Apply bio-engineering techniques to provide structural support for erosion prone rural forest roads.
2.2.1	Training, workshops, and conference											
	Training on · Create SOPs and comply with the newly designed interventions -- for approximately 90 Participants	GCF	Planned	801.62	General Survey Competitive Method	No	Yes	No	Q2-Y1	Q2-Y1	Q2-Y1	This training will prepare farmers to be able to manage invasive species in 50 community forests (1000 ha) and 10 community grasslands (100 ha). The training is focused on the technique and timing of uprooting

												invasive species from the community forests and reusing process such as composting or biocharring.
	Training on · Capacitate the local government and other stakeholders on the SOPs -- for Approximately 570 Participants	GCF	Planned	5,076.94	General Survey Competitive Method	No	Yes	No	Q2-Y1	Q2-Y1	Q2-Y1	This training will prepare farmers to be able to manage invasive species in 50 community forests (1000 ha) and 10 community grasslands (100 ha). The training is focused on the technique and timing of uprooting invasive species from the community forests and reusing process such as composting or biocharring.
3.1.3	Equipment and related	GCF										
	· Operate the schools by involving local government	GCF	Planned	22,727.27	General Survey Competitive Method	No	Yes	No	Q4-Y1	Q4-Y1	Q4-Y1	This is a cost of equipment for biocharring and briquette making which the Community Forest and Community Grassland Users Committee members will be using to prepare biochar from the removed invasive species.
3.3.3	Training, workshops, and conference											
	· Generate baseline data and map of vulnerability, hazard sites, ecosystem services and facilities in communities based on risk profiles.	GCF	Planned	1,022.73	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper attention and designing of appropriate mitigating measures. This will also orient communities on baselines data and mapping of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles.

· Develop methodology for maintenance of such data	GCF	Planned	2,045.45	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper attention and designing of appropriate mitigating measures. This will also orient communities on baselines data and mapping of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles.
· Mainstream the methodology in the local government's plans	GCF	Planned	1,022.73	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper attention and designing of appropriate mitigating measures. This will also orient communities on baselines data and mapping of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles.
· Mapping of vulnerable ecosystems and hazardous sites	GCF	Planned	1,022.73	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper attention and designing of appropriate mitigating measures. This will also orient communities on baselines data and mapping of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles.
· Document baseline information on climate change adaptation knowledge	GCF	Planned	1,022.73	General Survey Competitive Method	No	Yes	No	Q3-Y1	Q3-Y1	Q3-Y1	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper attention and designing of appropriate mitigating

												measures. This will also orient communities on baselines data and mapping of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles.
Gender	GAP implementation total	GCF	Planned	16,630.00	General Survey Competitive Method	No	Yes	No	Q1-Y1	Q1-Y1	Q1-Y1	The detailed estimation of this cost is presented in Sheet named "Gender AP". This cost relates to implementation of gender plan activities stated in Annex 8
Gender	ESMF implementation total	GCF	Planned	28,775.45	3 Proposal Competitive Method	No	Yes	No	Q1-Y1	Q1-Y1	Q1-Y1	The detailed estimation of this cost is presented in Sheet named "ESMF AP". This cost relates to implementation of ESMF action plan activities stated in Annex 6
Mgmt	Project Start up and Periodic M&E Activities	GCF	Planned	96,563.64	3 Proposal Competitive Method	No	Yes	No	Q1 to Q4-Y1	Q1 to Q4-Y1	Q1 to Q4-Y1	Project Startup, and Other Regular Event Costs throughout the Year.
PMC	Equipment and furniture	GCF	Planned	60,609.09	3 Proposal Competitive Method	No	Yes	No	Q1-Y1	Q1-Y1	Q1-Y1	The detailed estimation of this cost is presented in Sheet named "Equipment and furniture" meant for the project management unit. It includes the cost of equipment and furniture required for the Project Management UNIT/Project Execution Unit and the Field Office.

Year 2 (6 Months)

1	2	3	4	5	6	7	8	9	10	11	12	13
Ref. No. (Budget-line)	Contract (Description)	Source of Funds	Planned vs Actual	Estimated Cost in US\$	Procurement Method	Pre qualification (yes/no)	Domestic Preference (yes/no)	Review by AE/ Fund (Prior / Post)	Date of issuance of doc's	Bid-Opening Date	Date of contract /order signature	Comments
1.1.1	Essential inputs and materials											
	· Demonstration of climate resilient agroforestry	GCF	Planned	45,454.55	3 Proposal Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This cost is for the purchase of agroforestry planting materials and inputs. The type of species to be planted will be recommended by the agroforestry expert for specific target area. The project will support only the market purchased materials and inputs while farmers will bear the cost of local materials and unskilled labour.
1.1.1	Vehicle Rental	GCF	Planned	19,857.10	General Survey Competitive Method	No	Yes	Post	Q1 to Q4-Y2	Q1 to Q4-Y2	Q1 to Q4-Y2	Seasonal Vehicle Rental Packages (Can be in Multiple Expenses as per the Need of the Activities during the first half of Year 2.)
1.1.2	Essential inputs and materials											
	· Bund protection dams by bamboo and local materials Total Sites. 12	GCF	Planned	13,818.18	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This includes cost of purchasing planting materials and other construction materials to stabilize the earth from landslides and other

												disasters. The fine detailing of costs will be done by the consultant prior to construction of check dams.
	· Construction of check-dams and plantation of grass and trees involving participation of communities Total Locations 15	GCF	Planned	10,363.64	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This includes cost of purchasing planting materials and other construction materials to stabilize the earth from landslides and other disasters. The fine detailing of costs will be done by the consultant prior to construction of check dams.
1.1.2	Equipment and related											
	· Bund protection dams by bamboo and local materials Total Sites. 12	GCF	Planned	5,872.73	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	Field equipments and associated equipment for the construction of check dams
	· Construction of check-dams and plantation of grass and trees involving participation of communities Total Locations 15	GCF	Planned	5,872.73	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	Field equipments and associated equipment for the construction of check dams
1.1.2	Construction cost											
	Construction of Bund- Total Sites.12	GCF	Planned	163,636.36	Formal Request for Proposal	No	Yes	Prior	Q2-Y2	Q2-Y2	Q2-Y2	This involves the cost of constructing small nature-based structures such as bamboo check dams, plantations of grass and trees. The appropriate design and appropriate bioengineering technology will be selected or modified based on details given in

												Annex 2b. This includes the cost of 60 Bund protection dams, 7 Diversion channels, and 15 check-dams and plantation of grass and trees involving participation of communities.
	Consutruction of Diversion channel- Total Sites. 2	GCF	Planned	44,545.45	3 Proposal Competitive Method	No	Yes	Prior	Q2-Y2	Q2-Y2	Q2-Y2	This involves the cost of constructing small nature-based structures such as bamboo check dams, plantations of grass and trees. The appropriate design and appropriate bioengineering technology will be selected or modified based on details given in Annex 2b. This includes the cost of 60 Bund protection dams, 7 Diversion channels, and 15 check-dams and plantation of grass and trees involving participation of communities.
	Construction of Checkdams-Total Locations 3	GCF	Planned	68,181.82	3 Proposal Competitive Method	No	Yes	Prior	Q2-Y2	Q2-Y2	Q2-Y2	This involves the cost of constructing small nature-based structures such as bamboo check dams, plantations of grass and trees. The appropriate design and appropriate bioengineering technology will be

												selected or modified based on details given in Annex 2b. This includes the cost of 60 Bund protection dams, 7 Diversion channels, and 15 check-dams and plantation of grass and trees involving participation of communities.
1.1.2	Training, workshops, and conference											
	Training on · Bund protection dams by bamboo and local materials Total Sites 12 X 1800 Participants Lump Sum Costs	GCF	Planned	3,927.27	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	The community members will be provided with training on the selection of nature based structures such as bamboo check dams, plantations, etc. The project will specifically provide training on how to construct small nature-based structures and maintain them after the project.
	Training on · Diversion channels Total Sites 2 X 210 Participants Lumpsum Costs	GCF	Planned	458.18	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	The cost of travel and DSA is meant to cover the cost of field activity implementation by the consultant and the local government authorities. This includes also the cost of lfamer leaders in the community who will accompany the project team in supervising the field implementation of project activities.

	<p>Training on</p> <ul style="list-style-type: none"> Construction of check-dams and plantation of grass and trees involving participation of communities Total Locations 3X 450 Participants Lumpsum Costs 	GCF	Planned	981.82	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	<p>This is a cost of consulting services of a soil and water conservation firm for fine detailing of nature-based checkdam construction. This will be for first four years of the project. The firm will facilitate construction of bund protection checkdams at 60 sites, diversion channels at seven sites, and plantation of grass and trees at 15 locations..</p>
1.1.3	Essential inputs and materials											
	<ul style="list-style-type: none"> Conducting of extension programme to reach-out to all potential farmers --for Qty 9 	GCF	Planned	362,727.27	Formal Request for Proposal	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	<p>This cost is for the purchase of materials and inputs for conducting extension programme to propagate identified flood and drought crop varieties. The detailed costs will be worked out when the project agronomist consultant is recruited. The cost mentioned here is based on the average cost for such works.</p>
1.2.2	Essential inputs and materials	GCF	Planned	6,818.18	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	<p>For the purchase of local materials to construct field sheds for the demonstration of technology.</p>
1.2.2	Construction cost											

	· Construct the scheme and handover to the user's group -- for 20 Users' Group (Small Scale Irrigation Scheme)	GCF	Planned	354,545.45	Formal Request for Proposal	No	Yes	Prior	Q2-Y2	Q2-Y2	Q2-Y2	This is mainly for the construction of small scale irrigation systems through improved community participation. This community owned system will be developed, implemented and managed by the community themselves. There will be 300 (100 small, and 200 micro) such schemes constructed. Some micro schemes will be also constructed in some small isolated vulnerable pockets. This will involve the cost of designing, purchasing inputs, transportation, skilled labour and technical resource person cost. The detailed cost of each scheme will be estimated when the consultant engineer will identify the exact type of scheme in the specific site with the beneficiaries. The cost estimated here is based on the average cost from other similar projects.
1.2.2	Training, workshops, and conference											

	<p>Training for</p> <ul style="list-style-type: none"> · Establish Irrigation Water Users' Group (IWUG) with group mobilisation by-laws for construction, operation, and maintenance of the scheme to be constructed --for Total 150 Nos. Estimating Approx 4500 Persons 	GCF	Planned	98,181.82	3 Proposal Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	<p>The community members will be provided with the awareness training on the importance of small and micro irrigation schemes based on gravity flow. Farmers will be trained on the selection of appropriate small or micro irrigation scheme based on specific site, source of water and gravity, the specific design amongst the ones presented in Annex 2b. This training also includes process to maintain the schemes after construction involving community participation.</p>
1.2.3	Essential inputs and materials											
	<ul style="list-style-type: none"> · Construct the scheme and handover to the user's group 	GCF	Planned	90,909.09	3 Proposal Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	<p>This is for the purchase of materials and inputs for promoting water use efficiency through drip and sprinkle irrigation, and use of waste water. The type of material inputs required will depend upon the type of recommended technology by the irrigation consultant engineer after identifying vulnerable site, forming water users group and carrying out environmental assessment.</p>

1.2.3	Construction cost											
	<ul style="list-style-type: none"> Carry-out environmental assessment as required as per environmental regulations 	GCF	Planned	163,636.36	Formal Request for Proposal	No	Yes	Prior	Q2-Y2	Q2-Y2	Q2-Y2	<p>This cost is for the construction of water harvesting systems (conservation ponds, water reservoirs) and promote water use efficiency through drip and sprinkle irrigation, and use of waste water. Construction of conservation ponds, water reservoir and collection of rain water during monsoon for supply in the post monsoon and winter has already been a proven possibility through small scale research undertaken in Nepal. In this project, this possibility will be scaled-out to various places with such feasibility. One of the feasible schemes presented in Annex 2b will be selected/modified to and tailored to the location specific condition of the identified vulnerable site.</p>
1.2.3	Training, workshops, and conference											
	<ul style="list-style-type: none"> Establish Water Users' Group with group mobilisation by-laws for construction, operation, and maintenance of the 	GCF	Planned	10,909.09	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	<p>This training includes capacitating farmers to be able to participate in the selection/modification of water harvesting systems</p>

	scheme to be constructed 300 Trainings											suitable in their area. They will be trained on how to use water more efficiently. It also includes capacitating the water users' group on the maintenance of the irrigation system developed after the project.
	· Build capacity of Water Users' Group on operation and maintenance of the scheme during and after the project 300 Trainings	GCF	Planned	10,909.09	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training includes capacitating farmers to be able to participate in the selection/modification of water harvesting systems suitable in their area. They will be trained on how to use water more efficiently. It also includes capacitating the water users' group on the maintenance of the irrigation system developed after the project.
	· Carry-out environmental assessment as required by the environmental regulations 300 Trainings	GCF	Planned	10,909.09	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training includes capacitating farmers to be able to participate in the selection/modification of water harvesting systems suitable in their area. They will be trained on how to use water more efficiently. It also includes capacitating the water users' group on the maintenance of the irrigation system developed after the project.

1.2.4	Essential inputs and materials											
1.2.4	<ul style="list-style-type: none"> Establish Waterhole Management Group (WMG) with group mobilisation by-laws for construction, operation, and maintenance of the holes to be constructed--for Total Nos 10 	GCF	Planned	13,636.36	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This includes cost of materials and inputs to support the communities in making the waterholes. Cost support will be provided through users' committees for inputs to be purchased from the market, skilled labour and designing cost.
1.2.4	Training, workshops, and conference											
	<ul style="list-style-type: none"> Training on Establish Waterhole Management Group (WMG) with group mobilisation by-laws for construction, operation, and maintenance of the holes to be constructed -- for Total 10 Nos 	GCF	Planned	3,272.40	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is meant for establishing the Water hole. Management Group of farmers for selection, construction, operation and maintenance of the waterholes. The trained farmers will be mostly livestock herder and thus will ensure livestock herding and continue livestock farming rather than migrating abroad leaving the farm.
	<ul style="list-style-type: none"> Training on Identify with the livestock herders on the number of required and feasible number of waterholes -- for Total 10 Nos 	GCF	Planned	3,272.40	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is meant for establishing the Water hole. Management Group of farmers for selection, construction, operation and maintenance of the waterholes. The trained farmers will be mostly livestock herder and thus will ensure livestock herding and continue livestock farming rather

												than migrating abroad leaving the farm.
2.1.1	Essential inputs and materials											
2.1.1.1	· Construction of check-dams and plantation of grass and trees involving participation of communities in 15 locations for agricultural lands;	GCF	Planned	#####	Formal Request for Proposal	No	Yes	Prior	Q2-Y2	Q2-Y2	Q2-Y2	This cost includes the cost of saplings for plantation in 8 km green belts along river and stream banks, enrichment plantation and reforestation in 2,500 ha forest land, 750 ha wetlands, 500 ha grasslands; and 320 conservation ponds. This also includes purchase cost of bamboo and other materials for bioengineering such as planting grasses, bamboos in gullies in 700 sites.
	Jeep- 1 Nos	GCF	Planned	60,000.00	3 Proposal Competitive Method	No	Yes	Prior	Q1-Y2	Q1-Y2	Q1-Y2	This to purchase two pick-ups (one for PMU/PEU and one for field Office) for the transportation of construction and plantation materials to and from the field; one Jeep for inspection of field and monitoring of construction and plantation works; and five motorbikes for monitoring in rural area where four-wheel vehicles cannot ply. The cost will be as follows:

												<p>one Jeep = US\$60,000; two pick-ups = US\$ 120,000 (2*60,000); five motorbikes = US\$ 20,000 (5*4,000) in the first year.</p> <p>From the second year onwards, the cost is for driver, fuel, and maintenance including insurance which comes to NRs 1,500,000.. LCS Method will be applied for procurement of Vehicles (on the basis of approved models)</p>
	Pick- Up Jeep- 2 Nos	GCF	Planned	120,000.00	Formal Request for Proposal	No	Yes	Prior	Q1-Y2	Q1-Y2	Q1-Y2	<p>This to purchase two pick-ups (one for PMU/PEU and one for field Office) for the transportation of construction and plantation materials to and from the field; one Jeep for inspection of field and monitoring of construction and plantation works; and five motorbikes for monitoring in rural area where four-wheel vehicles cannot ply. The cost will be as follows: one Jeep = US\$60,000; two pick-ups = US\$ 120,000 (2*60,000); five motorbikes = US\$ 20,000 (5*4,000) in the first year.</p>

												From the second year onwards, the cost is for driver, fuel, and maintenance including insurance which comes to NRs 1,500,000.. LCS Method will be applied for procurement of Vehicles (on the basis of approved models)
	Motorbikes - 5 Nos	GCF	Planned	20,000.00	General Survey Competitive Method	No	Yes	Prior	Q1-Y2	Q1-Y2	Q1-Y2	<p>This to purchase two pick-ups (one for PMU/PEU and one for field Office) for the transportation of construction and plantation materials to and from the field; one Jeep for inspection of field and monitoring of construction and plantation works; and five motorbikes for monitoring in rural area where four-wheel vehicles cannot ply. The cost will be as follows: one Jeep = US\$60,000; two pick-ups = US\$ 120,000 (2*60,000); five motorbikes = US\$ 20,000 (5*4,000) in the first year.</p> <p>From the second year onwards, the cost is for driver, fuel, and maintenance including insurance which comes to NRs 1,500,000.. LCS Method will be applied for procurement of Vehicles (on the basis of approved models)</p>

2.1.1	Training, workshops, and conference											
	<ul style="list-style-type: none"> Construction of check-dams and plantation of grass and trees involving participation of communities in 15 locations for agricultural lands; for - 10 Qty@900 Participants 	GCF	Planned	2,999.70	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	<p>This training is to capacitate communities to be able to participate in the construction of climate resilient green belts to protect forests, wetlands, grasslands and conservation ponds from landslides and floods. They will be trained on selection and designing/modification of appropriate bioengineering technology (see Annex 2b for detail) for constructing green belt and identifying specific site in degraded forest in forest land, grassland, wetland, and conservation ponds (2,500 ha forest land, 750 ha wetlands, 500 ha grasslands; and 320 conservation ponds).and conduct enrichment plantation, construction of check-dams, river training, run-off diversion channels, landslide treatment forest plantation, establishment of green belt 8 km along river streams and banks, using NBS in the gullies at 700 sites.</p>

	· Train communities along rivers for developing green belts- for 2 Trainings@ Participants 180	GCF	Planned	602.3	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to capacitate communities to be able to participate in the construction of climate resilient green belts to protect forests, wetlands, grasslands and conservation ponds from landslides and floods. They will be trained on selection and designing/modification of appropriate bioengineering technology (see Annex 2b for detail) for constructing green belt and identify specific site in degraded forest in forest land, grassland, wetland, and conservation ponds (2,500 ha forest land, 750 ha wetlands, 500 ha grasslands; and 320 conservation ponds).and conduct enrichment plantation, construction of check-dams, river training, run-off diversion channels, landslide treatment forest plantation, establishment of in 8 km along river streams and banks, using NBS in the gullies at 700 sites.
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	<ul style="list-style-type: none"> Run-off diversion channels through green belts for 66 Trainings @ Participants 6000 	GCF	Planned	19,998.00	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	<p>This training is to capacitate communities to be able to participate in the construction of climate resilient green belts to protect forests, wetlands, grasslands and conservation ponds from landslides and floods. They will be trained on selection and designing/modification of appropriate bioengineering technology (see Annex 2b for detail) for constructing green belt and identify specific site in degraded forest in forest land, grassland, wetland, and conservation ponds (2,500 ha forest land, 750 ha wetlands, 500 ha grasslands; and 320 conservation ponds).and conduct enrichment plantation, construction of check-dams, river training, run-off diversion channels, landslide treatment forest plantation, establishment of in 8 km along river streams and banks, using NBS in the gullies at 700 sites.</p>
2.1.2	Essential inputs and materials											
	<ul style="list-style-type: none"> Identification of species for plantation and planting along 70 km landslide prone 	GCF	Planned	31,818.18	3 Proposal Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	<p>This cost is to provide essential materials and inputs for plantation in 70 km along landslide</p>

	rural road											prone rural roads. The recommended plants by the local consultants will be procured from the CFUG nurseries.
2.1.2	Training, workshops, and conference											
	Training on · Selection and designing/modification of appropriate bioengineering technology (see Annex 2b for detail) for providing structural support -- for 10 Nos. Approximately 600 Participants	GCF	Planned	3,000.00	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	The community members will be provided with training on identification of the exact landslide prone rural road and location for construction of structural support in consultation with the communities, selection and designing/modification of appropriate bioengineering technology (see Annex 2b for detail) for providing structural support, identification of species for plantation and planting along 70 km slide prone rural road. Apply bio-engineering techniques to provide structural support for erosion prone rural forest roads.
	Training on · Identification of sepcies for plantation and planting along 70 km landslide prone rural road -- for 10 Nos. Approximately 600 Participants	GCF	Planned	2,727.27	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	The community members will be provided with training on identification of the exact landslide prone rural road and location for construction of structural support in consultation with the communities, selection

												and designing/modification of appropriate bioengineering technology (see Annex 2b for detail) for providing structural support, identification of species for plantation and planting along 70 km slide prone rural road. Apply bio-engineering techniques to provide structural support for erosion prone rural forest roads.
2.1.3	Essential inputs and materials											
	· Invasive species managed	GCF	Planned	5,454.55	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This cost item is related material and input support to the community forest and community grassland members to remove the invasive species and reuse them for composting and biocharring.
2.1.3	Equipment and related											
	· Invasive species managed	GCF	Planned	1,818.18	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This is a cost of equipment for biocharring and briquette making which the Community Forest and Community Grassland Users Committee members will be using to prepare biochar from the removed invasive species.

2.1.3	Training, workshops, and conference											
	<ul style="list-style-type: none"> Community forest and community grassland members will be trained on the technique and timing of uprooting invasive species from the community forests for 5 Trainings @ 1500 Participants 	GCF	Planned	10,636.36	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training will prepare farmers to be able to manage invasive species in 50 community forests (1000 ha) and 10 community grasslands (100 ha). The training is focused on the technique and timing of uprooting invasive species from the community forests and reusing process such as composting or biocharring.
	<ul style="list-style-type: none"> Members will be trained on reusing process such as composting or biocharring for 2 Trainings @ 600 Participants 	GCF	Planned	6,981.82	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training will prepare farmers to be able to manage invasive species in 50 community forests (1000 ha) and 10 community grasslands (100 ha). The training is focused on the technique and timing of uprooting invasive species from the community forests and reusing process such as composting or biocharring.
2.2.1	Training, workshops, and conference											
	<ul style="list-style-type: none"> Training on Create SOPs and comply with the newly designed interventions -- for approximately 90 Participants 	GCF	Planned	1,603.85	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to capacitate farmers to participate on identification of climate resilient interventions on agroforestry, forestry, wetlands and grassland management that needs standard operating procedures (SOP) and

												capacitate the local government and other stakeholders on the SOPs
	Training on · Capacitate the local government and other stakeholders on the SOPs -- for Approximately 570 Participants	GCF	Planned	10,157.74	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to capacitate farmers to participate on identification of climate resilient interventions on agroforestry, forestry, wetlands and grassland management that needs standard operating procedures (SOP) and capacitate the local government and other stakeholders on the SOPs
2.2.2	Training, workshops, and conference											
	· Conduct TOT for CFUG and NGO members and prepare a critical mass who can make use of traditional knowledge with science based climate resilient ecosystem management for 3 Nos @ Participants 750	GCF	Planned	6,682.72	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This is a specifically designed training package for community based planning and development of site specific management structure and tools for conservation and restoration in collaboration with the local government, CFUG district Chapter and District NGO Federation, to identify specific vulnerable communities involved in maintaining ecosystems. There will be 22 TOTs (19 district level and 3 province level), 151 trainings (one in each local government), and 19 district level trainings

												completed to prepare a critical mass of GOs, NGOs and CBOs who can make use of traditional knowledge with science based climate resilient ecosystem management. This will be helpful to mainstream the model in the newly elected government.
	· Conduct awareness raising orientation for newly elected local government representatives for 10 Nos @ Participants 5285	GCF	Planned	5,387.69	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This is a specifically designed training package for community based planning and development of site specific management structure and tools for conservation and restoration in collaboration with the local government, CFUG district Chapter and District NGO Federation, to identify specific vulnerable communities involved in maintaining ecosystems. There will be 22 TOTs (19 district level and 3 province level), 151 trainings (one in each local government), and 19 district level trainings completed to prepare a critical mass of GOs, NGOs and CBOs who can make use of traditional knowledge with science based climate resilient ecosystem management.

												This will be helpful to mainstream the model in the newly elected government.
	· Conduct various forest fire management trainings -	GCF	Planned	1,063.82	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This is a specifically designed training package for community based planning and development of site specific management structure and tools for conservation and restoration in collaboration with the local government, CFUG district Chapter and District NGO Federation, to identify specific vulnerable communities involved in maintaining ecosystems. There will be 22 TOTs (19 district level and 3 province level), 151 trainings (one in each local government), and 19 district level trainings completed to prepare a critical mass of GOs, NGOs and CBOs who can make use of traditional knowledge with science based climate resilient ecosystem management.

												This will be helpful to mainstream the model in the newly elected government.
	<ul style="list-style-type: none"> Mainstream the model in the local government's plans, programmes and policies 	GCF	Planned	288.98	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This is a specifically designed training package for community based planning and development of site specific management structure and tools for conservation and restoration in collaboration with the local government, CFUG district Chapter and District NGO Federation, to identify specific vulnerable communities involved in maintaining ecosystems. There will be 22 TOTs (19 district level and 3 province level), 151 trainings (one in each local government), and 19 district level trainings completed to prepare a critical mass of GOs, NGOs and CBOs who can make use of traditional knowledge with science based climate resilient ecosystem management.

												This will be helpful to mainstream the model in the newly elected government.
3.1.1	Essential inputs and materials											
	· Hi-Tech nurseries supported to be climate resilient	GCF	Planned	3,636.36	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This includes the cost of materials required for the planning and development of site specific management structure and tools for conservation and restoration of ecosystem. This will be in the form of site specific technical assistance decided in consultation with the local government during field implementation of the project.
3.1.1	Equipment and related											
	· Piloting of developed structure and tools	GCF	Planned	3,636.36	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This cost is a support to procure equipments required for the planning and development of site specific management structure for conservation and restoration of ecosystem. This will be in the form of site specific technical

												assistance decided in consultation with the local government during field implementation of the project.
3.1.1	Training, workshops, and conference											
	<ul style="list-style-type: none"> Identification of technical assistance need and modality for operationalising the technical assistance 	GCF	Planned	120	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This is technical assistance for the development of planning and management structures and tools for conservation and restoration of ecosystem. These are community-based tools for site-specific EbA measures in the target landscapes. The specific type of assistance will be decided in consultation with the local government during field implementation of the project.
3.1.3	Equipment and related											
	<ul style="list-style-type: none"> Operate the schools by involving local government 	GCF	Planned	11,363.64	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This cost refers to the purchase of monitoring tools and equipment that will be identified by the professional technical consultant while developing community based monitoring and maintenance programmes. This will include the cost of equipment for monitoring of climate parameters and extreme

												events; rate of drying out of water sources, human health hazards, monitoring of climate indicator species, distribution shift of flora and fauna, etc.
3.2.2	Training, workshops, and conference	GCF	Planned	-	Formal Request for Proposal							
	<ul style="list-style-type: none"> Mainstream the framework in provincial and local government's plans and policies -for 6 Nos@ Participants 690 	GCF	Planned	1,725.00	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is meant to capacitate communities to participate in the process of developing a framework for assessment for economic valuation of ecosystem and ecosystems services to support planning with the project support. They will be also oriented on how to make use of the framework in the local level planning with the local government. This training also includes orientation of government officials for mainstreaming the framework in their regular plans and programmes.
3.2.3	Training, workshops, and conference											
	<ul style="list-style-type: none"> Pilot the policy for -- 4 Training @ Participants 210 	GCF	Planned	1,050.00	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training will capacitate communities to participate in policy development for local governments to incorporate climate change adaptation and

												EbA into their Integrated Development Plan. There will be 50 such plans supported by the project.
3.3.1	Equipment and related											
	Establish the system	GCF	Planned	22,727.27	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This cost is for the purchase of simple tools and equipment required for data collating at national and GRB level. It will include purchasing of computer, and accessories for data storage and retrieval system.
3.3.1	Training, workshops, and conference											
	Conduct a study to identify appropriate system for data collation at national and GRB levels for 1 Study Training@ Participants 200	GCF	Planned	2,181.82	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to capacitate communities to participate in establishing national and GRB level system for collating data and information on global best practices, lessons learned, evidence from the field and scientific knowledge on ecosystem- and community-based approaches to adaptation. Communities will be also oriented on how to avail data to the Environment Protection and Climate Change Council (EPCCC) and Parliamentary Committees for Agriculture,

												Cooperatives and Natural Resources so that their climate problems are adequately communicated and addressed.
	Identify appropriate location for system establishment Training @ 100 Participants	GCF	Planned	1,090.91	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to capacitate communities to participate in establishing national and GRB level system for collating data and information on global best practices, lessons learned, evidence from the field and scientific knowledge on ecosystem- and community-based approaches to adaptation. Communities will be also oriented on how to avail data to the Environment Protection and Climate Change Council (EPCCC) and Parliamentary Committees for Agriculture, Cooperatives and Natural Resources so that their climate problems are adequately communicated and addressed.

3.3.3	Equipment and related	GCF	Planned	4,545.45	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This cost is for preparing communities to cope with potential disaster such as drought, torrential rain, landslides and floods as and when it happens. This activity will be done in close collaboration with the local bodies and the generated information will be maintained by them for sustainability reasons. This will include the establishment of early warning system by linking with the existing early warning systems currently operating in the GRB established by by other agencies. For example: Practical Action has done one; and WWF has also done for flash flood disasters. In addition, this project will link with the upcoming project of UNDP for early warning system of GLOF and of FAO's early warning system for pest outbreaks.
3.3.3	Training, workshops, and conference											
	· Generate baseline data and map of vulnerability, hazard sites, ecosystem services and facilities in communities based on risk profiles.	GCF	Planned	1,022.73	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper

												attention and designing of appropriate mitigating measures. This will also orient communities on baseline data and mapping of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles.
	· Develop methodology for maintenance of such data	GCF	Planned	2,045.45	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper attention and designing of appropriate mitigating measures. This will also orient communities on baseline data and mapping of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles.
	· Mainstream the methodology in the local government's plans	GCF	Planned	1,022.73	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper attention and designing of appropriate mitigating measures. This will also orient communities on baseline data and mapping of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles.

	· Mapping of vulnerable ecosystems and hazardous sites	GCF	Planned	1,022.73	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper attention and designing of appropriate mitigating measures. This will also orient communities on baselines data and mapping of vulnerability, hazard sites, ecosystem services and facilities in communities based on risk profiles.
	· Document baseline information on climate change adaptation knowledge	GCF	Planned	1,022.73	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training is to enable communities to participate in baseline data generation so that their baseline problem is well communicated to the project and the government for proper attention and designing of appropriate mitigating measures. This will also orient communities on baselines data and mapping of vulnerability, hazard sites, ecosystem services and facilities in communities based on risk profiles.
3.3.4	Training, workshops, and conference											

	· Identify the type of knowledge sharing and learning structure for 200 Participants	GCF	Planned	1,248.00	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training will enable communities to participate in establishing climate change adaptation knowledge sharing and learning structures within key clusters to facilitate climate resilient planning and management. This also includes orientation on collection and documentation of knowledge products, operationalisation knowledge sharing structure, and institutionalisation of the structure within the provincial and local government's climate change information system.
	· Establish the knowledge sharing structure for 200 Participants	GCF	Planned	1,248.00	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training will enable communities to participate in establishing climate change adaptation knowledge sharing and learning structures within key clusters to facilitate climate resilient planning and management. This also includes orientation on collection and documentation of knowledge products, operationalisation knowledge sharing structure, and institutionalisation of the

												structure within the provincial and local government's climate change information system.
	· Collection and documentation of knowledge products for 200 Participants	GCF	Planned	1,248.00	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training will enable communities to participate in establishing climate change adaptation knowledge sharing and learning structures within key clusters to facilitate climate resilient planning and management. This also includes orientation on collection and documentation of knowledge products, operationalisation knowledge sharing structure, and institutionalisation of the structure within the provincial and local government's climate change information system.
	· Operationalise knowledge sharing structure for 200 Participants	GCF	Planned	1,248.00	General Survey Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	This training will enable communities to participate in establishing climate change adaptation knowledge sharing and learning structures within key clusters to facilitate climate resilient planning and management. This also

												includes orientation on collection and documentation of knowledge products, operationalisation knowledge sharing structure, and institutionalisation of the structure within the provincial and local government's climate change information system.
Gender	GAP implementation total	GCF	Planned	29,592.73	3 Proposal Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	The detailed estimation of this cost is presented in Sheet named "Gender AP". This cost relates to implementation of gender plan activities stated in Annex 8
EMSF	ESMF implementation total	GCF	Planned	48,821.82	3 Proposal Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	The detailed estimation of this cost is presented in Sheet named "ESMF AP". This cost relates to implementation of ESMF action plan activities stated in Annex 6
PMC	Start-up, monitoring, evaluation and closing activities	GCF	Planned	49,290.91	3 Proposal Competitive Method	No	Yes	Post	Q2-Y2	Q2-Y2	Q2-Y2	Various Small Activities/ Event Costs throughout the Year
PMC	Maintenance Contract Equipment and furniture	GCF	Planned	4,545.45	General Survey Competitive Method	No	Yes	Post	Q1-Y2	Q1-Y2	Q1-Y2	The detailed estimation of this cost is presented in Sheet named "Equipment and furniture/Annex 4 - Budget" meant for the project management unit. It includes the cost of equipment and furniture required for the Project Management UNIT/Project Execution

													Unit and the Field Office.
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III. Selection of Consultants

- 1. Prior Review Threshold:** Selection decisions subject to Prior Review by AE/Fund:

	Selection Method	Prior Review Threshold	Comment
1.	Competitive Method (<i>Based on Technical Requirements, Capacities Assessment and Availabilities</i>)	Institution/Individual Consultant CHF >=1 to <= 24,999	Post
2	Competitive – 3 Proposals	Institution/Individual Consultant CHF >=25,000 to <=99,999	Prior
3.	Request for Proposals	Institution/Individual Consultant CHF >=100,000	Prior

- 2. Short list comprising entirely of national consultants:** Short list of consultants for services, estimated to cost less than \$100,000 equivalent per contract, may comprise entirely of national consultants in accordance with the Fund's interest in encouraging the development and use of National Consultants from partner countries of operation.
- 3. Any Other Special Selection Arrangements:** [including advance procurement and retroactive financing, if applicable]

3. Consultancy Assignments with Selection Methods and Time Schedule

Year 1

1	2	3	3	4	5	6	7	8	9	10	11	
Ref. No. (Budget-Head)	Description of Assignment	Source of Funds	Estimated Cost	Selection Method	Review by AE/Fund (Prior / Post)	Issuance of Expression of Interest	Finalize shortlist and issue RFP	Proposals Submission Date	Complete Technical Evaluation	Complete Financial Evaluation	Negotiate and Award	Comment
A 1.1.1	Local consultants:(Agro-Forestry Expert - 1 Nos-Individual)	GCF	19,373.18	General Survey Competitive Method	Post			Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a consultant agroforestry expert to support in the identification of best bet agroforestry options and train the farmers on agroforestry. This will be an intermittent input, 6 months a year.
A 1.1.2	Local consultants:(Landslide Control Expert-1 Nos-Individual)	GCF	27,541.36	3 Proposal Competitive Method	Prior			Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a cost of an expert for landslide control using nature based solution. This resource person will be recruited for the first half of the year during plantation and interculturaloperation. the expert will identify the exact site in consultation with the community for constructing nature-based structures, and select and design/modify

												appropriate bioengineering technology (see Annex 2b for detail).
A 1.1.2	Professional/ Contractual Services :(Consulting Package- for Nature Based Check dam Construction and Related Works- Firm)	GCF	10,887.13	General Survey Competitive Method	Post			Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a cost of consulting services of a soil and water conservation firm for fine detailing of nature-based checkdam construction. This will be for first four years of the project. The firm will facilitate construction of bund protection checkdams at 60 sites, diversion channels at seven sites, and plantation of grass and trees at 15 locations..
A 1.1.3	Local consultants:(Plant and Agronomy Expert -1 Nos- Individual)	GCF	12,578.18	General Survey Competitive Method	Post			Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a cost of a consultant plant agronomist to support the development of drought and flood tolerant varieties. S/he will demonstrate one flood tolerant paddy variety and one variety of another summer crop; and at least one variety of drought tolerant crop variety and one more drought tolerant variety of

												another winter crop.
A.1.2.1	Professional/ Contractual Services :(Various Experts (Hydrology Expert, Climate Change Expert, Forest Expert, Water Harvesting Technology etc)- Individuals/ Firms (as per the Requirements), in collaboration with IWMI and ICIMOD)	GCF	315,000.00	Formal Request for Proposal	Prior			Q1-Y1	Q1-Y1	Q1-Y1	Q2-Y1	This is a overall consulting cost of establishing a water model to better associate and forecast what will be the likely changes in water availability. This includes reconciliation of hydrological model for the entire GRB. The hydrological model will be used to analyse water balance, hydrological flows, etc. and further validate the extrapolated data using the soil and water assessment tool (SWAT model) based expertise from IWMI and the Nepal Department of Hydrology and Meteorology.

												<p>This activity will be carried-out in collaboration with IWMI Nepal. The project will also engage with other agencies, such as ICIMOD, to ensure that it is working with the most recent scientific support and advice and data. Bilateral and multilateral donors active in Nepal and who are involved in projects and programmes on climate change or in dealing with climate change impacts will be approached to ensure that this project supports the building of better understanding nationally on climate change.</p>
A 1.2.2	Local consultants:(Irrigation Expert/Hydrological Expert-1 Nos- Individual)	GCF	60,741.82	3 Proposal Competitive Method	Prior	Q2-Y1	Q2-Y1	Q2-Y1	Q2-Y1	Q2-Y1	Q2-Y1	<p>This is a cost of a local consultant for designing and construction of small scale irrigation systems through improved community participation. There will be consultants for small and micro irrigation systems separately for a period of six months a year each.</p>

A 1.2.2	Professional/ Contractual Services :(Various Experts (Physical Environment Expert, Sociologist, Hydrologist, etc)- Individuals/ Firms (as per the Requirements))	GCF	14,995.28	General Survey Competitive Method	Post			Q2-Y1	Q2-Y1	Q2-Y1	Q2-Y1	This is a overall consulting cost of the construction work. This includes identification of vulnerable site and irrigation scheme type, establishment of Irrigation Water Users' Group (IWUG) with group mobilisation by-laws for construction, operation, and maintenance of the scheme to be constructed, carrying-out environmental assessment as required by the environmental regulations, and providing efficient water use technology to water user groups.
A 1.2.3	Local consultants:(Hydrological Engineer- 1 Nos- Individual)	GCF	20,247.27	General Survey Competitive Method	Post			Q2-Y1	Q2-Y1	Q2-Y1	Q2-Y1	This is a cost of a consultant water engineer for harvesting water based on the suitability of one of the models presented in Annex 2b for a particular location in the GRB. This will be for 8 months a year for first four years.
A 1.2.4	Local consultants:(Water Hole Technology Expert- 1 Nos- Individual)	GCF	5,061.82	General Survey Competitive Method	Post			Q2-Y1	Q2-Y1	Q2-Y1	Q2-Y1	This is a cost of a local consultant for improved water availability through construction and maintenance of water holes in community grasslands. The consultant will be hired for a period of 2 months a year. The

												consultant will select and/or modify detailed site and the water hole technology involving the participation of communities.
A 2.1.1	Local consultants:(Forest Expert - 1 Nos- Individual)	GCF	62,620.36	3 Proposal Competitive Method	Prior	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a senior consultant forester to work on the restoration feasibility of the degraded land by using IUCN's ROAM tool (Restoration Opportunity Assessment Methodology).
A 2.1.1	Professional/ Contractual Services :(Consulting Package for Designing and Supervision of the Construction and Plantation-Firm)	GCF	51,297.43	3 Proposal Competitive Method	Prior	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a cost of consulting services of a green best consulting firm for the fine detailing of the design and supervision of construction and plantation task.
A 2.1.2	Local consultants:(Bio-engineer/ Bio- engineering Expert- 1 Nos- Individual)	GCF	13,575.00	General Survey Competitive Method	Post			Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This cost is for a consultant to recommend bio-engineering techniques to provide structural support for erosion prone rural forest roads.The consultant will identify the exact landslide prone rural road and location for construction of structural support in consultation with the community, select/modify and

												design appropriate bioengineering technology (see Annex 2b for detail) for providing structural support, and identify species for plantation and planting along 70 km slide prone rural road.
A.2.1.3	Local consultants:(Invasive Species/ Flora Expert- 1 Nos- Individual)	GCF	4,900.91	General Survey Competitive Method	Post			Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a cost of consulting service to conduct a study on developing a methodology of removing invasive species and restoring the biodiversity of vulnerable forests and grassland ecosystems. The study will be conducted in a community forests and community grasslands affected by invasive species to prepare the method of removal and calendar of operations depending upon the identified invasive species.

A 2.2.1	Local consultants:(Biodiveristy Expert/ Agroforestry/ Forestry Expert - 1 Nos-Individual)	GCF	22,054.09	General Survey Competitive Method	Post			Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a cost for the consultant who will prepare new SOP's that support future interventions on agroforestry, forestry, wetlands and grasslands management. A standard operating procedure (SOP) describing a set of step-by-step instructions will be created and compiled to carry out complex routine operations in designing and implementation of activities for the management of agroforestry, forestry, wetlands and grasslands.
A 2.2.2	Local consultants:(Climate Change Expert - 1 Nos-Individual)	GCF	25,321.36	3 Proposal Competitive Method	Prior	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a cost of a consultant to prepare a TOT module to enhance capacity of CFUGs and NGOs in vulnerable communities in maintaining climate resilient ecosystems. This technical resource person will function as a lead trainer for 22 TOTs (19 district level and 3 province level), 151 local level trainings (one in each local government), and 19 district level trainings.

A 3.1.1	Local consultants:(Agro Economist/ Sociologist/ Management/ Forestry Expert - 1 Nos- Individual)	GCF	10,756.36	General Survey Competitive Method	Post			Q3-Y1	Q3-Y1	Q3-Y1	Q3-Y1	This is a cost of technical assistance for community based planning and development of site specific management structure and tools for conservation and restoration of ecosystem. The consultant will identify the technical assistance need and modality of operationalisation of the technical assistance. The consultant will develop management structure and tools for conservation and restoration of ecosystem. The consultant will assist in the piloting of developed structures and tools.
A 3.1.2	Local consultants:(Agro Economist/ Sociologist/ Management/ Forestry Expert - 1 Nos- Individual)	GCF	3,796.36	General Survey Competitive Method	Post			Q2-Y1	Q2-Y1	Q2-Y1	Q2-Y1	This is a cost of technical resource person for short term to support development of community-based monitoring and maintenance programmes. The consultant will design the local and regional management structures to maintain restored ecosystems

A 3.1.3	Local consultants:(Agro Economist/ Sociologist/ Management/ Forestry Expert - 1 Nos- Individual)	GCF	32,672.73	3 Proposal Competitive Method	Prior	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This cost refers to the cost of professional technical resource person to develop community-based monitoring and maintenance programmes through the local and regional management structures to maintain restored ecosystems. The consultant will develop community-based monitoring and maintenance programmes and support the project intermitantly in the piloting of the programme.
A 3.1.4	Local consultants:(Water Resource Expert/ Hydrologist- 1 Nos- Individual)	GCF	13,069.09	General Survey Competitive Method	Post			Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a cost of a consultant to develop a cooperation modality and MOU between the communities to introduce the PES mechanism and implement it. The modality will be to link upstream and downstream vulnerable communities through climate informed management of spring-shed and water source protection.

A 3.2.1	Local consultants:(River Basin Management Plan and Watershed Management Plan Expert - 2 Nos-Individuals)	GCF	14,944.09	General Survey Competitive Method	Post			Q3-Y1	Q3-Y1	Q3-Y1	Q3-Y1	This is a cost of two consultants who will prepare the detailed TORs for the preparation of river basin management plan, watershed management plan and sub-watershed management plan. They will also monitor the management plan preparation process by the consultant. They will be providing intermittent input. The consultants will provide Table of Contents for both management plan and SOPs to be prepared.
A 3.3.3	Local consultants:(Climate Change Expert - 1 Nos-Individual)	GCF	52,110.91	3 Proposal Competitive Method	Prior	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	Q1-Y1	This is a cost of a consultant to prepare a TOR for generating baseline data and map of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles. The consultant will also develop a methodology for maintenance of such data, mapping of vulnerability ecosystems and hazardous sites, and documentation of baseline information on climate change adaptation knowledge. These consultants will be providing intermittent input and oversee the data

												collection and processing to establish baseline of the project for its regular planning and monitoring of project performance. They will also prepare a manual on data manitenance.
A 3.3.3	Professional/ Contractual Services :(Consulting Package for Mapping of Vulnerability, hazard sites and others (GIS related)- 1 Nos- Firm)	GCF	8,706.41	General Survey Competitive Method	Post			Q2-Y1	Q2-Y1	Q2-Y1	Q2-Y1	The baseline data generation part and mapping of vulnerability, hazard sites, ecosystem services and facilities based on risk profiles will be contracted out to consulting firm. The task includes generating baseline data, mainstreaming the methodology in the local government's plans, map vulnerability of ecosystems and hazardous sites, and document baseline information on climate change adaptation knowledge.

A 3.3.4	Local consultants:(Communication Expert/ Information Technology Expert - 1 Nos-Individual)	GCF	17,394.55	General Survey Competitive Method	Post			Q2-Y1	Q2-Y1	Q2-Y1	Q2-Y1	Local consultant cost is for identification of the appropriate knowledge sharing and learning structure, identification of the type of knowledge products for documentation, and institutionalisation of the structure within the provincial and local government's climate change information system.
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Year 2

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Ref. No. (Budget-Head)	Description of Assignment	Source of Funds	Estimated Cost	Selection Method	Review by AE/Fund (Prior / Post)	Issuance of Expression of Interest	Finalize shortlist and issue RFP	Proposals Submission Date	Complete Technical Evaluation	Complete Financial Evaluation	Negotiate and Award	Comment
A 1.1.1	Renew/New contract of Local consultants:(Agro-Forestry Expert - 1 Nos-Individual)	GCF	19,373.18	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a consultant agroforestry expert to support in the identification of best bet agroforestry options and train the farmers on agroforestry. This will be an intermittent input, 6 months a year.

A 1.1.2	Renew/New contract of Local consultants:(Landslide Control Expert-1 Nos-Individual)	GCF	27,541.36	3 Proposal Competitive Method	Prior	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of an expert for landslide control using nature based solutions. This resource person will be for the first half of the year during plantation and intercultural operation. the expert will identify the exact site in consultation with the community for constructing nature-based structures, and select and design/modify appropriate bioengineering technology (see Annex 2b for detail).
A 1.1.2	Renew/New contract of Professional/ Contractual Services :(Consulting Package- for Nature Based Check dam Construction and Related Works- Firm)	GCF	10,887.13	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of consulting services of a soil and water conservation firm for fine detailing of nature-based checkdam construction. This will be for first four years of the project. The firm will facilitate construction of bund protection checkdams at 60 sites, diversion channels at seven sites, and plantation of grass and trees at 15 locations..

A 1.1.3	Renew/New contract of Local consultants:(Plant and Agronomy Expert -1 Nos- Individual)	GCF	6,289.09	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of a consultant plant agronomist to support the development of drought and flood tolerant varieties. S/he will demonstrate one flood tolerant paddy variety and one variety of another summer crop; and at least one variety of drought tolerant crop variety and one more drought tolerant variety of another winter crop.
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A 1.2.2	Renew/New contract of Local consultants:(Irrigation Expert/Hydrological Expert- 1 Nos- Individual)	GCF	30,370.91	3 Proposal Competitive Method	Prior	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of a local consultant for designing and construction of small scale irrigation systems through improved community participation. There will be consultants for small and micro irrigation systems separately for a period of six months a year each.

A 1.2.2	Renew/New contract of Professional/ Contractual Services :(Various Experts (Physical Environment Expert, Sociologist, Hydrologist, etc)- Individuals/ Firms (as per the Requirements))	GCF	22,492.91	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is an overall consulting cost of the construction work. This includes identification of vulnerable site and irrigation scheme type, formation of Irrigation Water Users' Group (IWUG) with group mobilisation by-laws for construction, operation, and maintenance of the scheme to be constructed, carrying-out environmental assessment as required by the environmental regulations, and providing efficient water use technology to water user groups.
A 1.2.3	Renew/New contract of Local consultants:(Hydrological Engineer- 1 Nos- Individual)	GCF	20,247.27	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of a consultant water engineer for harvesting water based on the suitability of one of the models presented in Annex 2b for a particular location in the GRB. This will be for 8 months a year for first four years.

A 1.2.3	New contract of Consulting Package for Construction Works and Environmental Studies- Firm	GCF	103,426.68	Formal Request for Proposal	Prior	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is an overall consulting cost of the construction work. This includes identification of vulnerable site and water harvesting technique selected, establishment of Irrigation Water Users' Group (IWUG) with group mobilisation by-laws for construction, operation, and maintenance of the scheme to be constructed, carrying-out environmental assessment as required by the environmental regulations, and promoting water use efficiency through drip and sprinkle irrigation, and use of waste water.
A 1.2.4	Renew/New contract of Local consultants:(Water Hole Technology Expert- 1 Nos- Individual)	GCF	5,061.82	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of a local consultant for improve water availability through construction and maintenance of water holes in community grasslands. The consultant will be hired for a period of 2 months a year. The consultant will select and/or modify detail site and the water hole technology in participation of community.
A 2.1.1	Renew/New contract of Local consultants:(Forest Expert - 1 Nos- Individual)	GCF	62,620.36	3 Proposal Competitive Method	Prior	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a senior consultant forester to work on the restoration feasibility of the degraded land by using IUCN's ROAM tool (Restoration Opportunity Assessment Methodology).

A 2.1.1	Renew/New contract of Professional/ Contractual Services :(Consulting Package for Designing and Supervision of the Construction and Plantation-Firm)	GCF	76,946.14	3 Proposal Competitive Method	Prior	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of consulting services of a green best consulting firm for the fine detailing of the design and supervision of construction and plantation task.
A 2.1.2	Renew/New contract of Local consultants:(Bio-engineer/ Bio- engineering Expert- 1 Nos- Individual)	GCF	13,575.00	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This cost is for a consultant to recommend bio-engineering techniques to provide structural support for erosion prone rural forest roads. The consultant will identify the exact landslide prone rural road and location for construction of structural support in consultation with the community, select/modify and design appropriate bioengineering technology (see Annex 2b for detail) for providing structural support, and identify species for plantation and planting along 70 km slide prone rural road.

A 2.1.2	New contract of EbA Expert / Bio Engineering Expert - 1 Nos	GCF	9,423.54	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is for the application of bio-engineering techniques to provide structural support for erosion prone rural forest roads. In order to prevent road-slides and soil erosion due to intense rain during monsoon, plantations will be done in 70 km along such slide prone rural roads. Experience from Mountain EbA project of the IUCN will be followed here.
A.2.1.3	Renew/New contract of Local consultants:(Invasive Species/ Flora Expert- 1 Nos- Individual)	GCF	4,900.91	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of consulting service to conduct a study on developing a methodology of removing invasive species and restoring the biodiversity of vulnerable forests and grassland ecosystems. The study will be conducted in community forests and community grasslands with invasive species to prepare the method of removal and calendar of operations depending upon the identified invasive species.

A.2.1.3	New contract of Consulting Package for Invasive Species Management & Reusing and Capacity Development of CFUG.. Briquette making- 1 Nos- Firm	GCF	2,262.53	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of consulting services of invasive species management and reusing consulting firm. This will include capacity building of the CFUG members on biocharring of invasive species and briquette making.
A 2.2.1	Renew/New contract of Local consultants:(Biodiveristy Expert/ Agroforestry/ Forestry Expert - 1 Nos- Individual)	GCF	11,027.05	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost for the consultant who will prepare new SOP's that support future interventions on agroforestry, forestry, wetlands and grasslands management. A standard operating procedure (SOP) describing a set of step-by-step instructions will be created and compiled to carry out complex routine operations in designing and implementation of activities for the management of agroforestry, forestry, wetlands and grasslands.

A 2.2.2	Renew/New contract of Local consultants:(Climate Change Expert - 1 Nos- Individual)	GCF	12,660.68	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of a consultant to prepare a TOT module to enhance capacity of CFUGs and NGOs in vulnerable communities in maintaining climate resilient ecosystems. This technical resource person will function as a lead trainer for 22 TOTs (19 district level and 3 province level), 151 local level trainings (one in each local government), and 19 district level trainings.
A 3.1.1	Renew/New contract of Local consultants:(Agro Economist/ Sociologist/ Management/ Forestry Expert - 1 Nos- Individual)	GCF	10,756.36	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of technical assistance for community based planning and development of site specific management structure and tools for conservation and restoration of ecosystem. The consultant will identify the technical assistance need and modality of operationalisation of the technical assistance. The consultant will develop management structure and tools for conservation and restoration of ecosystem. The consultant will assist in the piloting of developed structures and tools.
A 3.1.1	New contract of Ecosystem Expert - 1 Nos- Individual	GCF	2,050.88	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is an overall consulting cost of providing technical assistance for the development of specific management structure and tool for conservation and restoration of ecosystem. This includes piloting of specific management structure and tools in the selected sites.

A 3.1.2	Renew/New contract of Consultant- Community Based Monitoring Programmes- 1 Nos- Individual	GCF	1,898.18	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of technical resource person for a short term to support development of community-based monitoring and maintenance programmes. The consultant will design the local and regional management structures to maintain restored ecosystems
A 3.1.2	New contract of Consultant- Community Based Monitoring Programmes- 1 Nos- Individual	GCF	830.74	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of piloting of the Community-based monitoring and maintenance programme developed by the project. The piloting will include monitoring of climate parameters and extreme events; rate of drying out of water sources, human health hazards, monitoring of climate indicator species such as pyrethrum, dengue fly, citrus psylla, distribution shift of flora and fauna, etc. This will also include the cost of maintenance of the monitoring records at the local; and regional levels.

A 3.1.3	Renew/New contract of Local consultants:(Agro Economist/ Sociologist/ Management/ Forestry Expert - 1 Nos- Individual)	GCF	16,336.36	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This cost refers to the cost of professional technical resource person to develop community-based monitoring and maintenance programmes through the local and regional management structures to maintain restored ecosystems. The consultant will develop community-based monitoring and maintenance programmes and support the project intermittently in the piloting of the programme.
A 3.1.3	New contract of Consultant for operating field school- 1 Nos- Individual	GCF	45,244.10	3 Proposal Competitive Method	Prior	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of consulting services for operating field school for tracking restoration and conservation of ecosystem in target areas. It will be operated by the community in various batches by formulating course curriculum and school operation modality
A 3.1.4	Renew/New contract of Local consultants:(Water Resource Expert/ Hydrologist- 1 Nos- Individual)	GCF	6,534.55	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of a consultant to develop a cooperation modality and MOU between the communities to introduce the PES mechanism and implement it. The modality will be to link upstream and downstream vulnerable communities through climate informed management of spring-shed and water source protection.

A 3.1.4	New contract of Consultant for PES mechanism- 1 Nos- Individual	GCF	4,129.77	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of consulting services for operationising PES mechanism in GRB with particular focus on linking upstream and downstreams in various watershed areas. This will also support to formulate training manual on PES model implementation.
A 3.2.1	Renew/New contract of Local consultants:(River Basin Management Plan and Watershed Management Plan Expert - 2 Nos- Individuals)	GCF	14,944.09	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of two consultants who will prepare the detailed TORs for the preparation of river basin management plan, watershed management plan and sub-watershed management plan. They will also monitor the management plan preparation process by the consultant. They will be providing intermitent input. The consultants will provide Table of Contents for both management plan and SOPs to be prepared.
A 3.2.2	New contract of Economic Analyst/ EBA Expert - 1 Nos- Individual	GCF	4,900.91	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost for a consultant to develop a framework for assessment for economic valuation of ecosystem and ecosystems services to support planning. The consultant will develop a methodology and user's manual for the assessment of ecosystem services. The consultant will also support piloting of the methodology and mainstreaming the framework in provincial and local government government's plans and policies.

A 3.2.3	New contract of Consultant for Intregating Climate Change Adaptation - 1 Nos- Individual/Firm	GCF	12,252.27	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This cost is for a consultant to develop policy for integrating climate change adaptation and EbA into their Integrated Development Plan. The consultant will also support in piloting the policy in the government mechanism.
A 3.3.1	New contract of Consultant for indentifying appropriate system for data collation- 1 Nos- Individual	GCF	20,420.45	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This is a cost of consultant to conduct a study and identify appropriate system for data collation at national and GRB levels and identify appropriate location for system establishment. The consultant will provide intermitent input for establishing the system as well.
A 3.3.1	New contract of Consultant for indentifying appropriate system for data collation- 1 Nos- Firm	GCF	154,279.79	Formal Request for Proposal	Prior	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	This activity will be contracted out for collating data and information on global best practices, lessons learned, evidence from the field and scientific knowledge on ecosystem- and community-based approaches to adaptation.

A 3.3.2	New contract of Communication/ IT Expert - 1 Nos- Individual/ Firm	GCF	6,942.95	General Survey Competitive Method	Post	Q2-Y2	Q2-Y2	Q2-Y2	Q2-Y2	Q2-Y2	Q2-Y2	This is a cost of a consultant for the identification of a model model and development of mobile apps. The consultant will also provide technical input during piloting of mobile apps and mainstream the apps in the government's regular programme.
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A 3.3.3	Renew/New contract of Professional/ Contractual Services :(Consulting Package for Mapping of Vulnerability, hazard sites and others (GIS related)- 1 Nos- Firm)	GCF	8,706.41	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	The baseline data generation part and mapping of vulnerability, hazard sites, ecosystem services and facilities in communities based on risk profiles will be contracted out to consulting firm. The task includes generating baseline data, mainstreaming the methodology in the local government's plans, map vulnerability of ecosystems and hazardous sites, and document baseline information on climate change adaptation knowledge.

A 3.3.4	Renew/New contract of Local consultants:(Communication Expert/ Information Technology Expert - 1 Nos-Individual)	GCF	17,394.55	General Survey Competitive Method	Post		Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Q1-Y2	Local consultant cost is for identification of the appropriate knowledge sharing and learning structure, identification of the type of knowledge products for documentation, and institutionalisation of the structure within the provincial and local government's climate change information system.
A 3.3.4	New contract of Consulting Package for information system - 1 Nos- Firm	GCF	15,427.44	General Survey Competitive Method	Post	Q2-Y2	Q2-Y2	Q2-Y2	Q2-Y2	Q2-Y2	Q2-Y2	This task will includes establishing the knowledge sharing structure (3), collection and documentation of knowledge products, operationalisation of knowledge sharing structure, and institutionalisation of the structure within the provincial and local government's climate change information system. This task will be contracted out to a consulting firm.

