Quarterly Progress Report cum PO's Report

Quarter: (Tick) 1/ 2/ 3/ 4 Project:India High Range Mountain Landscape Date: 15.07.2021

1. Project Progress

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Expected	Planned Activities (List all	Activity Progress in Quarter – Comments by PO	Qu	arter	Х		Comments by PO on the activity	Target	Actual	Reasons
Project Outputs	activities including M&E		(Hi	ighligh	ht the		progress	ed	Expenditu	for Unde
and Indicators	during the year)		сог	mplet	ted			Expen	re in	Expendit
including			qui	arter))			diture	Quarter 1	ure in
Annual Targets				,				for		Quarter
								the		X, if any
								year		, ., u,
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				2	3	4				
Outcome 1: Stren	gthened capacities for communi	ty based sustainable use and management of	-	-		-				
natural resources		.,								
	-									
Outcome 1:	1.1.1 Workshops/meetings	Traditional agricultural practices and seed					Due to the 2 nd wave of Covid-19, the			
	and consultations/discussions	conservation					Kerala State went on a lockdown			
Outputs	with relevant stakeholders on	Objective of this assignment is the promotion of					from 8 th May to 16 th June 2021.			
1.1 Capacities	project related activities –	traditional agricultural practices suitable for					Even before the state-wide			
, of Local Self	(Government officials,	landscape characteristics.					lockdown, few of the Panchayaths			
Governments	Panchayath functionaries,	The project converged with the Subiksha Keralam					in the project area were already			
and community	elected representatives and	Scheme of Government of Kerala to sow					under lockdown because of high			
organizations	community members)	traditional millet and rice varieties in over 345					covid incidences. Since this			
developed to		acres of land and reached out to 1160 farmers in					lockdown period falls under the Q2			
plan for		2020.					reporting period, some of the			
sustainable		In this quarter awareness sessions were					scheduled workshops/ meetings			
resource use							had to be canceled or had to be			
		conducted at tribal settlements of Adimali,					shifted online.			
		Devikulam, Vattavada, Marayoor Grama					The elections to the legislative			
		Panchayaths in Idukki District and Kuttampuzha					assembly at the State level were			
		Grama Panchayath in Ernakulam District on					held during the Q2 reporting period			
		conservation-based agriculture practices, which					on 6 th April 2021. The Model Code			
		included conservation of indigenous seeds,					of Conduct on account of the			
		reviving traditional millet cultivation, and					elections continued till 30 th April 2021. Few public consultations had			
		sensitizing the communities on the significance of					to be cancelled on account of the			
		staple food crop cultivation. Based on the					Model Code of Conduct.			
		awareness sessions, cultivation activities have								
		been initiated across Grama Panchayths								
		Seen initiated across Grania Fanchayths								

	Sustainable Sugarcane Initiative				
	The primary objective of this assignment is the				
	improvement of value chain of Sugarcane with				
	focus on production side intervention for small				
	and marginal farmers in Marayoor and				
	Kanthalloor Panchayaths				
	It is expected that cultivation practice through				
	SSI will help in the following:				
	- Reduction in the costs of cultivation by 20- 30 percent				
	- Reduction in seed material by as much as				
	95 percent				
	- Water efficiency increases with savings up				
	to 40-70 percent (depending on the				
	irrigation methods applied)				
	- Reduction in the use of labour by 20-30				
	percent				
	- Yield improvement of 20-50 percent				
	(depending on how effectively the SSI				
	practices are implemented)				
	- Weed reduction by 40-60 percent (in the				
	first three months) by raising intercrops				
	- Additional income from intercrops				
	In order to promote the sustainable sugar cane				
	cultivation practices among farmers, an				
	awareness programme was conducted in April				
	2021. As a follow up of this initiative, another				
	round of stakeholder consultation & Free, Prior &				
	Informed Consent (FPIC) has also been carried out				
	in June at Marayoor to sensitize the farming				
	community in scaling up of sustainable sugarcane				
	farming initiatives and to check the convergence				
	possibilities with GP and agriculture department.				
	Developing Medicinal plant based barre				
	Developing Medicinal plant-based home				
	gardens The primary objective of the assignment is to map				
	and assess the extent of medicinal plants				
	cultivation in the home gardens in the selected				
	Grama Panchayaths. It is aimed at expanding the				
	cultivation of indigenous medicinal plant species				
	which can be utilized by the households for				
	remedial purpose along with contributing				
	towards biodiversity conservation. The non-				
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will be strategically positioned as a Start-up risk				
capital for entrepreneur. This will enable				
entrepreneurs to test innovative ideas in the				
market. GIF will also support innovators at all				
stages of their life cycle, from start-up and pilot-				
testing through to larger scale implementation.				
Apart from providing the Start-up risk capital, GIF				
would be accompanied by supporting the				
entrepreneur through mechanisms that help				
enhance the probability of success. The key areas				
of support provided are strategy, planning,				
marketing, and mentoring.				
A knowledge track series has been conducted for				
the startups under the Green Innovation Fund.				
First Cohort was conducted during May – June in				
the following areas				
Financial Capabilities series – three-part				
series				
 Business Acumen – Thinking 				
Through business numbers				
 Understanding Financial 				
Projections for Start-ups- An				
Introduction				
 Navigating Financial 				
Challenges & Business Health				
for Impact Oriented Startups				
 Legal series two-part series 				
 Basic legal considerations – 1 				
 Basic legal considerations - 2 				
 Accounting basic series two-part series 				
 Accounting and Compliances 				
basics -1				
basics -1				
Vegetable value chain				
For restoring the degraded land affected by				
invasive and alien species at Vattavada GP of				
Idukki district, series of consultation meetings				
were carried out with Grama Panchayath officials.				
This initiative is aimed at converting the degraded				
land into organic vegetable gardens for enhancing				
the income of farmers with the support from local				
self-government and the local community. A				
project implementation strategy for this activity				



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		Consultation meetings with Elected members					
		and officials, June 2021					
		Presented project details including the timelines,					
		key project activities and progress so far in the					
		following panchayath's. Discussed the concerns					
		of the panchayath members & clarified the					
		project objectives. Sought suggestions from					
		panchayath members and incorporated into					
		activity plan.					
		Panchayaths where discussion was held - Adimali,					
		Devikulam, Munnar, Kanthalloor, Marayoor,					
		Mankulam Grama Panchayaths in Idukki District					
		Online meeting with Ministry of Environment,					
		Forest, and Climate Change					
		Presentation was done about the project					
		activities to Inspector General (Wildlife) and					
		Deputy Inspector General (Wildlife) along with					
		the actions taken based on the Mid Term Review					
		recommendations. Inspector General					
		appreciated the progress achieved on the project					
		and the action taken towards Mid Term Review					
		recommendations.					
		 Environment day contest – The Project 			The Environment day contest was		
		had organized an online competition in			able to create some buzz in the		
		association with Haritha Keralam			landscape with atleast 2 local tv		
		Mission to spread the message about			channels covering the news		
		World Environment Day 2021. The			alongwith interviews of the first		
		competition was open to children aged			prize winner.		
					One of the videos taken as part of		
		between 10-15 years and was limited to					
		children from the project landscape. The competition was themed – Uyir –			Covid awareness, features a tribal community member – Laya. Laya is		
		Waste to Craft. Uyir means life in					
		Malayalam and Tamil. The event			the coordinator of a partner agency		
					working on waste management as		
	1.1.2 Develop IEC products on	encourages children to learn that			part of the project. The video was		
	project related activities	discarded items can be given a new life			produced by Arjun Murali, another		
		by developing craft items out of them.			tribal community youth in the		
		156 children from the project landscape			project landscape who is also a		
		had participated in the contest and had			student of the Visual media course		
		shared the works depicting their			that has been launched in July 2021.		
		creativity. All the participants were			The course supports 25 youth, like		
		given a participation certificate. Anna			Arjun, from underprivileged		
		Mathew from Adimali Grama			communities (Scheduled Caste and		
		Panchayat has won the first prize.			Scheduled Tribes) from the		
		Adithya Kalesh from Mankulam Grama			landscape on visual media.		
		Panchayat and Rohith S from Marayoor			On the Environment Day, a state		
		has shared the second prize. Ann			news channel featured a video story		
		Milana Deepu from Adimali Grama					

Panchayat won the third prize. The winners were awarded with certificates and environment related books and other goodies. The project landscape is home to 4 hornbill species. Adetailed study on the hornbills in the landscape including their nesting habitats and foraging tree species was conducted. The report suggests several recommendations including planting of trees like the ficus in degraded spaces outside protected areas; it was also suggested to increase awareness amongs toolat communities on preserving the habitats of hornbills, and the project landscape based on study findings was preared & shared for expert review Through the initiatives of the project, over 137 women community members are engaged in the process of waste collection, processing and disposal across the project landscape. These women are working under the baner of the Hanitha Karma Sena or Green Entrepreneurs. This workforce is emerging to be a major contributor in maintaining the cleanlines in the project are and hence contributing to maintain a healthy cosystem for the local biodiversity as well as human.
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local biodiversity as well as human local local biodiversity as human local biodiversity as well as human local
beings. Video documentation of Haritha
Karma Sena and waste management
efforts at Athirappilly Panchayath in
Thrissur District was completed. Editing
is being done based on the suggestions
from the Project Management Unit
• Two major approaches to tackle covid
are – 1. Covid appropriate behaviour
and 2. Vaccination; The project team
works with 2 vulnerable groups – the
sanitation workers and tribal
communities; The Project aimed at
targeting these 2 vulnerable groups
through videos (3) & posters (9) which
were shared through whatsapp and
other social media platforms

 1	
	 Corporate gifts: Deigning and
	production of Bamboo pens, cloth
	sleeve bags and Notepad with
	traditional bamboo weaving (Mirror
	Mat design) done by artisans in the
	landscape was initiated
	 Content for "Did You Know" posters
	developed on flora and fauna present in
	the landscape and 12 posters were
	designed as inserts in the notepad
	 Tweets as part of the Environment Day,
	Desertification Day and Tropics Day
	were done and circulated
	• Branding of Chilla market as an
	institution is initiated for creating an
	online identity for the market - logo
	design and automation completed
	 Developed contents for four flyers
	(Biodiversity conservation outside
	protected area network- Biodiversity
	Heritage Site, Other effective area-
	based conservation measures'
	(OECMs), People's Biodiversity
	Register, ePBR and Access and Benefit
	Sharing);
	 One Brochure on National Biodiversity
	Targets (NBT) and one Poster on
	Biodiversity Act for research
	professionals in June 2021 for
	knowledge dissemination were
	developed
	 Location visit completed for video
	documentation of project activities at
	Adimali and Mankulam Panchayaths in
	Idukki district
1.1.3 Training relevant	A major intervention under the project is to Due to the 2 nd wave of Covid-19, the
stakeholders for	mainstream biodiversity conservation in the local Kerala State went on a lockdown
mainstreaming BD	self-government institutions in the landscape. from 8 th May to 16 th June 2021.
considerations – (for	Local Self Government Institutions (LSGI) are Even before the state-wide
Government officials,	mandated to develop annual plans, in lockdown, few of the Panchayaths
Panchayat functionaries	consultation with the community members, in the project area were already
elected representatives and	which forms the basis for the activities of the LSGI under lockdown because of high
community members)	for the entire year. The project aims to convert covid incidences. Since this
	the LSGI plans into green plans through a series of lockdown period falls under the Q2 reporting period, many of the

	capacity building programmes with the LSGI		trainings had to be conducted		
	members and officials.		online.		
	The District Planning Committee (DPC) approved		Also, the availability of the		
	annual plans of the 11 Grama Panchayaths in the		Panchayath members was an issue		
	landscape were collected for identifying the		since the focus was on containment		
	approved green plans and adding green		of Covid wave as well arranging		
	components in the implementation. 50 projects		treatment facilities for Covid		
	were identified from 3 Grama Panchayaths for		affected.		
	adding green components. Mahatma Gandhi				
	National Rural Employment Guarantee Scheme				
	Annual labour plan and budget were collected for				
	analyzing the convergence opportunities of the				
	respective Grama Panchayath plans. Modules on				
	write shop for implementing officials regarding				
	the incorporation of green components in the				
	implementation plans was being prepared.				
	Two online workshops conducted with experts for				
	developing modules on Role of Community Based				
	Organization (CBO's) in Green Plans in May and				
	June 2021. The draft module includes the role of				
	CBO's in Green Plans – Possibilities of				
	intervention, Partnership in green plans and				
	Models based on various sectors.				
	10 Community Based Organizations in 7 Grama				
	Panchayaths were identified as primary				
	stakeholders for training.				
1.1.4 Exposure visit of select					
stakeholders to other	This could not be done due to the statewide				
landscape approach-based	Covid lockdown and restrictions.				
conservation models					
1.1.5 Technical studies to	Draft Final Report of the following Technical		The draft final reports are being		
establish baseline, assess	Studies conducted by Kerala State Biodiversity		scrutinized and are being edited to		
impacts of current resource	Board were submitted:		submit in final form.		
use practices in the landscape	(1) Documentation and compilation of existing				
	information on various taxa (flora and fauna), and				
	identification of critical gaps in knowledge in the				
	GEF-Munnar landscape project area				
	(2) April 2021: Revision of the study titled				
	"Review of ecological and development history of				
	various sectors and changes in selected ecological				
	units in GEF-Munnar landscape project area by				
 	Kerala State Biodiversity Board" was done			 	

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		IEC materials: Developed contents for four Flyers					
		(Biodiversity conservation outside protected					
		area network- Biodiversity Heritage Site, Other					
		effective area-based conservation measures'					
		(OECMs), People's Biodiversity Register, ePBR					
		and Access and Benefit Sharing); One Brochure					
		on National Biodiversity Targets (NBT) and one					
		Poster on Biodiversity Act for research					
		professionals in June 2021 for knowledge					
		dissemination were developed					
Output 1.2:	Waste Management outside	Munnar			Since waste collection is a field level		
Sustainable	forest areas	Munnar is a popular tourism destination in South			activity, Covid-19 affected carrying		
resource use	1.2.1 Implementation of	India attracting tourists because of the unique			out field work under this activity.		
practices	"Green Munnar" Project for	biodiversity in the area like the Nilgiri Tahr, the					
demonstrated	(Dumpsite clearance,	Neelarkurunji, shola-based ecosystem etc and			Since sanitation workers are		
for improved	treatment of bio & non-bio	because of the rivers and streams in the region.			perceived to carry infection and on		
, quality of life	waste, campaigns for waste	However, the Munnar destination faces several			account of the safety of the		
. , , , ,	reduction, Septage treatment	challenges related to Waste Management			workers, the Grama Panchayaths		
	and Nallathanni river	including uncontrolled dumping of waste (over 40			had decided to suspend household		
	rejuvenation)	dumping points have been identified across the			collections from the panchayaths.		
		landscape), large dumpyards polluting the river			However, the project team tried to		
		streams and with high volumes of waste			ensure vaccination coverage		
		generated per day. One of the major			amongst the sanitation workers		
		interventions under the UNDP project is to put in			through local authorities. IEC		
		place scientific solutions to address these			posters & videos encouraging		
		challenges. As part of these, the following			vaccination was done and circulated		
		activities were undertaken in this quarter:			with the help of Grama		
		 Action based research study on 			Panchayaths.		
		processing of bio waste was completed					
		by Integrated Rural Technology Center					
		(technical agency supported through					
		UNDP IHRML Project) by setting up an					
		experimental facility in Munnar (Idukki					
		District) near the dump site at Kallar.					
		Windrow composting technology was					
		used. This experimentation was done to					
		check composting at low temperature					
		regions.					
		 The Munnar Grama Panchayath 					
		decided to proceed with the proposed					
		technology based on the presentation					
		of study findings to the Grama					
		Panchayath and Local Self Government					
		Department Officials.					
		 Detailed Project Report (DPR) for 					
		comprehensive waste management in					
		Munnar was developed by Integrated		1			

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	Water Resource Management 1.2.3 Demonstration of measures for better water harvesting in the landscape based on the Integrated Watershed Management Plans prepared for 11 Gram Panchayats in consultation with all relevant stakeholders	A Request for Proposal was developed for 'Comprehensive planning for water quality improvement of Nallathanni, Munnar with pilot demonstrations' in May 2021.					
	Carbon-neutral Panchayat 1.2.4 Action based project to make Mankulam a carbon neutral Panchayat	Through the project, a unique attempt is being made to develop Mankulam Grama Panchayath as a Carbon neutral panchayath. Mankulam Panchayath has over 1000 farmers practicing organic agriculture and is very rich in forest cover. The first stage of this effort is to understand the quantum of carbon emissions and carbon sinks in the panchayath. Field visits in Mankulam Grama Panchayath for soil data collection as part of soil health monitoring were completed in June 2021. 90 soil samples from 13 wards were collected for testing physical and chemical parameters. Online and physical meetings with functionaries of Mankulam Grama Panchayath were conducted in June 2021 and decided to carry out household data collection survey by July 2021. It was also decided to do a presentation of survey results and soil health test results to Grama Panchayath by August 2021 for further actions. Draft content for a flyer on Carbon Neutral Mankulam was developed.		about thi sections panchaya social n Whatsapp conducted both onlin these cor also took members	ere many apprehensions is project amongst some of the people in the th. This was raised in media platforms like o. The project team d a series of discussion ne and offline to assuage neerns. The project team & the Grama Panchayath into confidence regarding ition of this project.		
Output 1.3: Enhanced products/servic es value chains developed for providing ecologically sustainable	 1.3.1 Sustainable livelihood practices for Tribal communities NTFP (including branding & marketing of Vamasree shops & products), Bamboo & Reed Agri and allied sectors Enhancement of reservoir fish production and creation of livelihood opportunities for 	NTFP (including branding & marketing of Vanasree shops & products) A detailed estimate and drawings are being prepared based on the model Ecoshop design concept along with the 3D design. The concept and design frameworks were previously discussed with the forest officials under Malayattoor division. The current plan is to develop the model Ecoshop as a community institution.		period f activities planting o during the though C place, tea several improving	rter has been important for agriculture related as land preparation and of various crops happens e onset of Monsoon. Even Covid restriction was in am was able to undertake livelihood activities for g the livelihood es for tribal communities.		

livelihoods	the tribal community in	Chilla market (tribal community market) branding		Few of the activities like training of		
	Munnar Landscape through	exercise were carried out and logo concept was		community members, digital		
options	development of aquaculture	shared with forest department officials. Pilot run		mapping of individual plots were		
	practices of native species,	of the automation of Chilla market was carried		not carried out due to Covid		
		out during the quarter with successful results.		restrictions.		
	Lemongrass value chain intervention	out during the quarter with successful results.		restrictions.		
	intervention,	Native field encoded encoded				
	Sustainable Farming,	Native fish species promotion				
	Value addition and Market	As part of the activity on "Enhancing reservoir fish				
	linkage of Tribal community	production and creation of livelihood				
	at Athirappilly	opportunities for the local community through				
	Medicinal plant-based	development of aquaculture practices of native				
	value chain approach	fishes", Kerala University of Fisheries and Ocean				
		Studies (KUFOS) has developed the captive				
		breeding technology for the mass scale seed				
		production of endemic fish species in the Western				
		Ghats, Systomus Sarana. Around 3500 juvenile				
		seeds of Systomus Sarana were ranched at				
		Idamalayar reservoir during this quarter for				
		enhancing reservoir fish production which will				
		help in improving the livelihood of the tribal				
		communities who are residing in the Idamalayar				
		reservoir region, Ernakulam District.				
		Bamboo & reed-based interventions: Market				
		study for bamboo & reed products in				
		convergence with Rajagiri School of Business				
		Studies, Ernakulam is in progress.				
		Market linkages for Bamboo artisans from the				
		tribal communities in the project landscape were				
		facilitated				
		Athirappilly Tribal Valley Agricultural Project				
		(ATVAP)				
		Convergence is established with the Department				
		of Agriculture as part of the Athirappilly Tribal				
		Valley Agricultural Project (Rs 100 million project				
		for a duration of three years) for the digital				
		mapping of the farms. Training in digital mapping				
		for the field team is completed. ATVAP envisages				
		to improve the livelihood of tribal farmers				
		through the adoption of better farming practices,				
		better output from unit farm area, Organic and				
		rainforest certified products, value addition of				
		farm products and exploring the tribal farm				
		tourism potential of the location.				

	Homestead Medicinal Plant garden			
	Orientation workshops on homestead medicinal			
	plants were conducted in Marayoor and			
	Athirappilly Grama Panchayaths during April			
	2021. It is aimed at expanding the cultivation of			
	indigenous medicinal plant species which can be			
	utilized by the households for remedial purpose			
	along with contributing towards biodiversity			
	conservation. In this quarter, setting of			
	homestead medicinal gardens were initiated with			
	1899 families across four GPs.			
	Lemongrass value chain			
	The assignment aims to strengthen the Lemon			
	grass value chain for conservation based and			
	sustainable livelihood practices in the project			
	landscape. The intervention will include the			
	assessment of current cultivation practices,			
	climatic conditions for suitability of variety and			
	practices, evaluating the current processing			
	techniques and scope for improvement,			
	introduction of energy efficient model distillation			
	units, developing marketing linkages, training for			
	production of value-added products and			
	exploring the possibility of cultivation of other			
	medical and aromatic plants			
	Baseline assessment on lemon grass cultivation			
	was carried out in Marayoor GP completed during			
	this quarter. Developing market linkages for			
	community members in lemongrass is in progress.			
1.3.2 Sustainable livelihood	Propagation of traditional agriculture practices		The quarter has been important	
practices around biodiversity	and seed conservation activities		period for agriculture related	
Revival, Conservation	Objective of this assignment is the promotion of		activities as land preparation and	
and propagation plan for	traditional agricultural practices suitable for		planting of various crops happens	
traditional practices and seed	landscape characteristics.		during the onset of Monsoon. Even	
varieties among communities	Conducted awareness session in tribal		though Covid restriction was in	
Preparation of spatial	settlements at Adimali, Devikulam, Vattavada,		place, team was able to undertake a	
crop plan based on the	Marayoor GPs in Idukki District and Kuttampuzha		number of livelihood activities for	
assessments of anomalous	in Ernakulam district on conservation-based		improving the livelihood	
cropping practices,	agriculture methods, conservation of indigenous		possibilities for tribal communities.	
recommendations for	seeds, millets cultivation and importance of food		Few of the activities like training of	
sustainable cropping patterns	crops cultivation. Based on the awareness		community members, developing	
and its pilot implementation	sessions, cultivation activities were started during		model plots was not carried out due	
 Access and Benefit 	this guarter across GPs.		to Covid restrictions.	
2				
Sharing - Documentation and	Around 400 families were reached out across			
developing models	seven GPs in the landscape for the propagation of			

				-			
2	Promotion of organic/	traditional agriculture practices and seed					
saf	fe to eat agriculture	conservation activities.					
pro	actices	A biodiversity plot managed by a group of tribal					
?	Agroforesty, floriculture,	women was established in Adimali GP to revive					
bee	ekeeping	and conserve the various varieties of tubers,					
		millets, and vegetables.					
		As part of the revival of fallow Paddy land (also					
		considered as sanctuaries of biodiversity),					
		consultations with the community members were					
		done and land preparation works related to					
		developing fallow land for paddy cultivation were					
		initiated in Adimali GP. Support was facilitated in					
		convergence with Agriculture department for					
		tribal farmers collective as part of strengthening					
		community institution and to reduce the cost of					
		paddy cultivation,					
		Spatial Crop Planning					
		The socio economic, crop cultivation and crop					
		demand survey of the households from 3					
		Panchayaths were completed. The chemical					
		analysis of the soil samples collected from three					
		GPs at ICAR National Bureau of Soil Survey & Land					
		Use Planning (NBSS & LUP) was also done.					
		Agroforestry					
		The primary objective is to develop agro-forestry					
		models for small and medium landholdings in the					
		selected Panchayats in the project landscape.					
		Field level farm plan preparation is in progress in					
		two GPs. Development of model farmer plot is in					
		progress in one GP.					
		Organic Village – Mankulam (Idukki District)					
		This activity promotes organic agriculture with					
		focus on capacity building, organic certification					
		and building market linkages which will help to					
		ensure increase in income of the farmers and					
		converting the entire Mankulam Grama					
		Panchayath into an organic village. The activity					
		envisages bringing about market linkages and					
		developing value chain links for organic					
		commodities. Farmer selection for organic					
1		5			•	•	

	certification is in progress. It is planned to reach out to 1000 farmers under this activity. During					
	this quarter, a total of 26,280 kgs of Organic					
	Cocoa was procured from farmers and an amount					
	of INR 15,17,459 was transferred to farmers by					
	our implementation partner.					
	Organic Cardamom					
	Under this activity, field demonstration on					
	organic practices for cardamom cultivation was					
	carried out with 17 farmers (focus on tribal					
	communities) in Chinnakanal GP (Idukki District).					
	Concernation of Orchide					
	Conservation of Orchids An Orchidarium and Orchid Interpretation Centre					
	was set up in Eravikulam National Park and					
	opened to public during the quarter. A booklet on					
	Orchids in the National Park was prepared. The					
	documentation of existing diversity of orchids was carried out and 55 species of Orchids have					
	been identified based on the taxonomic inventory					
	developed and out of which, 14 are strictly					
	restricted (highly endemic) to western ghats.					
1.3.3 Sustainable livelihood	Passion fruit value chain intervention			Due to the 2 nd wave of Covid-19,		
practices for farming	Based on the farmer level training workshop on			field activities around passion fruit value chain were slowed down.		
community and supporting	passion fruit product and processing,			value chain were slowed down.		
institutions	identification of 15 model farmers each in Adimali			Project proposal was developed for		
Passion fruit value chain	and Mankulam GP has been completed. Developing market linkages for community			the project - restoration of		
interventions	members in passion fruit is in progress.			landscape area with invasive and		
In Study and implementation on Manhat				alien species, for enhancing the		
implementation on Market	Vegetable value chain			income of farmers with the support from local self-governments and		
Mapping & Value Chain analysis of Veg and fruits	A series of consultation meetings were carried out			community which would be taken		
Strengthening Farmer/	with Vattavada GP officials regarding the restoration of landscape area degraded with			in the next quarter.		
tribal institution for	invasive and alien species. This aims at enhancing					
increasing their impact	the income of farmers with the support from local					
increasing their impact	self-governments and community. A project					
	implementation strategy was devised and would					
	be taken up in the next quarter.					
	Strengthening Farmer/ tribal institution for					
	increasing their impact					
	Facilitating market linkages and system building					
	support for NTFPs collective based in Athirappilly					

	GP who are from tribal communities in the landscape is in progress Market linkage was facilitated for Jackfruit for farmer producer company in Mankulam GP, Idukki District		
1.3.4 Innovation and enterprise support around ecologically sustainable livelihoods options Ivelihoods options Green Innovation Fund Developing a farm tourism model around fruit cultivation Intervention in Jaggery value chain	Green Innovation Fund Green Innovation fund has been launched for social enterprises to address biodiversity conservation challenges in the landscape. A knowledge track series were conducted for the GIF first Cohort startups during May – June in the following areas: • Financial Capabilities series – three-part series • Business Acumen – Thinking Through business numbers • Understanding Financial Projections for Start-ups- An Introduction • Navigating Financial Challenges & Business Health for Impact Oriented Startups • Legal series-two-part series • Basic legal considerations - 1 • Basic legal considerations - 2 • Accounting and Compliances basics -1 • Accounting and Compliances bas	During the quarter, knowledge track series was carried out among the selected startups as a part of incubation process. Knowledge series helped the startups to relook at their business plan, operations and implementation strategy. Startups has started their field level stakeholder interactions during this quarter.	

		turnaround time to discover areas in trouble in a tea plantation. Take swift action and save money, time, and valuable resources. Based on captured data, prescriptions done through aerial spraying drones will be the new era in agriculture industry. Theoretically and experimentally, we observed that prescriptions through drones make an impact in yield change and thus leading to good agriculture practice. In partnership with Harrison Malayalam limited, they have completed the four field tests during the quarter and had demonstrated yield hike and reduction in usage of micronutrients. Scaling up of the pilot would be undertaken in the next quarter. Sustainable Sugarcane Initiative				
		Improvement of value chain of Sugarcane with focus on production side intervention for small and marginal farmers in Marayoor and Kanthalloor Panchayats. An awareness programme for sugarcane farmers from Marayoor GP in organic cultivation practices has been carried out in April 2021. A stakeholder consultation was carried out in June at Marayoor to discuss about scaling up of the Sustainable sugarcane initiative and convergence possibilities with GP and agriculture department. An Online meeting was conducted with technical experts and model farmers in June 2021 to review the production practices in model farms.				
Output 1.4: Community- based models developed for sustainable access and use of forest resources by local communities	1.4.1 Developing a comprehensive strategy based on evaluation of socio- economic study of Edamalakudy	Not taken up because of Covid restrictions				
	1.4.2 Implementation based on the comprehensive strategy for Edamalakudy	Not taken up because of Covid restrictions				
	1.4.3 Facilitation in implementation of	Not taken up because of Covid restrictions				

	Community Forest Right in project landscape.			
	1.4.4 Technical Experts/Consultants extended to MoEFCC, Haritha Kerala Mission and State Forest Department (Salaries)	Consultancy charges and PMU costs		
		Outcome Total		
Outcome 2: Mult High Range lands		is applied to secure the ecological integrity of the		
Output 2.1: Capacities of conservation and production sector personnel developed for applying landscape approaches in to sectoral planning and operations	2.1.1 Geospatial mapping of the landscape using high resolution satellite imagery and ground information (different sector &ecological attributes) Inventorizing high value biodiversity areas & assessment of flora and fauna of selected sholas inside tea estate	The decadal time series analysis of 11 Grama Panchayaths from 1990-2000-2010 is completed. The ground truthing activities for 6 GPs is currently stalled due to CoVID and delayed funds		1
,	2.1.2 Develop & validate state of sector documents for mainstreaming into the policies and practices of sectoral stakeholders (Tea, Coffee, Cardamom, Oil, Forest plantations and Tourism sectors)	State of Sector document with sectoral biodiversity plans is being developed.		1
Output 2.2: Mainstreaming of bio-diversity concerns in key production sectors demonstrated	2.2.1 Demonstration of developed potential strategies in plantation sector (tea, cardamom, coffee, forest plantations)	Energy Audit Energy saving recommendations in the Investment Grade Energy Audit was carried out previously at two factories of Kannan Devan Hills Plantation Company Ltd. These recommendations were endorsed during the online meeting, held in April 2021, along with few suggestions; Revised final report was submitted in May 2021 for review.		1
	2.2.2 Demonstration of developed potential strategies in Tourism sector in the landscape	Sustainable Tourism Initiatives		

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		400.000	
		\$86,844.1 4	
		-	
The activity is on track. Ground			
truthing needs to be carried out on			
priority.			
Draft version of the State of sector			
document with recommendations			
for interventions in the Plantation			
sectors have been developed.			
The audit has been finalized. The			
demonstration based on the audit			
recommendations are to be taken			
forward.			
1	1		
A few training programs had to be			
A few training programs had to be conducted online on account of the			
A few training programs had to be conducted online on account of the covid restrictions and Model Code			

	High value low impost tourism mart-to at	<u> </u>	Ι		
	High value low impact tourism models at				
	Kuttampuzha (Ernakulam District) and				
	Mankulam Panchayath (Idukki District)				
	It is aimed to develop a Sustainable community				
	tourism model to be piloted in Kuttampuzha and				
	Mankulam panchayaths where tourism				
	development is in its infancy. This will be market				
	linked replicable and sustainable tourism model				
	with measurable benefits for the local community				
	and biodiversity of the landscape. Panchayath				
	specific sustainable plan is developed, and various				
	service providers are being trained under this				
	activity.				
	 10 walk trails outside forest & 5 walk 				
	trails inside forest were identified and				
	operationalized				
	 Licensing process for 15 homestays is 				
	in progress.				
	 Follow up trainings for tour guides is 				
	currently ongoing.				
	• CODE (The code of Conduct for the				
	Protection of Children from Sexual				
	Exploitation in Travel and Tourism)				
	workshop was conducted for potential				
	service providers				
	 Destination Management guidelines 				
	and proposal for Panchayat is prepared				
	 Knowledge products developed which 				
	includes Festival Calendar, Farm				
	tourism details, Stories for Guides in				
	walk trails, walk trails mapping and				
	information				
	 5 tour packages developed 				
	• Prototype of website is developed				
	Content and design development is in				
	progress				
	Responsible Tourism Protocol Development and				
	Demonstration				
	In order to address the need for a responsible				
	tourism approach in project landscape, it is aimed				
	to develop a biodiversity integrated Responsible				
	Tourism protocol. Responsible Tourism protocol				
	will include tourism operators, hoteliers, local				
	self-governments, government agencies, local				
· · ·	· · · · · · · · · · · · · · · · · · ·	· ·	•	· · · · · ·	

2.2.3 Removal of invasive and exotic species and Ecorrestoration of degraded locations outside forest areas	 community, civil society organisations and tourists to take responsibility, take action to make the tourism in the locality more sustainable. Preparation of responsible tourism draft protocol for mountain landscape completed Stake holder consultation meetings and trainings for various stake holders on responsible tourism practices and protocols initiated Trainings for tourism accommodation sector service providers was conducted in June 2021. Trainings for Local Self Government is planned in July 2021 Green Islands / Biodiversity Parks Green islands/ Biodiversity parks aim at developing biodiversity demonstration plots and ensure community participation for biodiversity conservation. It is done in convergence with the MGNREGS workforce. Maintenance is ongoing in 12 plots across 7 Panchayaths – Marayoor, Kanthalloor, Chinnakanal, Mankulam, Adimali, Kuttampuzha and Athirappilly. Saplings were sourced from Central Nursery by Forest Department, MGNREGS nursery and Social Forestry Nursery. Around 1220 saplings, including medicinal plants varieties and native fruit trees, were procured, and planted across the 12 locations generally linked with local educational institutions. Based on discussions done with Adimali Govt. School for starting a biodiversity knowledge centre, a separate building has been allocated for this purpose. Discussion and concurrence have been taken from District Panchayath which has decision rights over the school. 		A team was formed with participants from the Haritha Keralam Mission and State Biodiversity Board to explore the possibility of setting up a biodiversity resource centre in Adimali, Idukki District. Discussions have been done with the School officials who have offered to provide a building for this purpose.		
2.2.4 Adopting Soil stabilization measures	In the context of frequent natural calamities in Kerala, it is important to prepare local level		The activity is on track. The data collection was delayed as a result		
outside forest, especially at identified landslide prone areas in Devikulam block such as along the National High Way from Munnar to	disaster plans and how technology can be used for disaster preparedness. Munnar Panchayath in Idukki district selected for pilot based on suggestion by Devikulam Sub Collector.		of covid lockdown. But this has resumed after lockdown was lifted.		
Chinnakanal by planting	The model was developed and presented to various state & district level stakeholders.				

,,	vativar chala species and		<u> </u>		[]	
Output 2.3: Best practices documented and disseminated for improving decision making on sustainable resource management and use	vetiver, shola species and other deep rooted species along the synforms. 2.3.1 Updation of State biodiversity strategies and action plan	 The tool has the following components: GIS based alert monitoring system for landslides SMS/ Telegram alerts to Rapid Response Team/ Disaster Management Officials Interactive landslide susceptibility maps Emergency contact management system to push alerts The plan of action for Biodiversity Expenditure Review (BER) by KSBB was endorsed in May 2021. First Roundtable discussion held on Biodiversity Expenditure Review with participation of 25 officials from 21-line departments for finalizing the schemes and programmes identified for BER and for clarifying data information gaps in June 2021. A template for preliminary data collection on activities leading to biodiversity conservation, issues, future projects, programmes etc was developed and to be shared with the stakeholders. 		The activity is on track.		
	2.3.2 Develop key policies and management framework/ decisions adopted at local and state level related to sustainable mountain landscape management	Landscape level Multi Stake holder Management Strategy framework has been developed. Data collection template for Landscape Level Multiuse Management Plan developed with the sections – administrative, socio economic, socio demographic, land use, human & animal health, temperature, rainfall, water, soil, waste, extreme events, contact details, and forest		The activity is on track.		
	2.3.3 Technical Experts/Consultants extended to MoEFCC, HarithaKeralam Mission and State Forest Department (salaries)	Consultancy charges and PMU costs				
		Outcome Total			\$ 51,941.47	
Outcome 3: Comn management evol		nework for multiple-use high range landscape				
Output 3.1: Landscape level management plans and	Improved Protected Area Management 3.1.1 Measures to mitigate threats such as forest fire,	GIS center, established by the Vazhachal Forest Development Agency, has started functioning. Various spatial information has been collated so far and a geo database has been developed for		The activity is on track and is partially affected as a result of Covid-19 lockdown.		

sustainable resource	road kills etc in biodiversity conservation	planning. Forest fire management and mitigation plan was prepared by this cell for the Vazhachal				
management systems in place	Technologies for monitoring wildlife movement - installation of thermal sensor	Forest Division. Potential zones were identified for riparian eco restoration by the GIS cell.				
	at Malayattoor & Chalakkudy as part of reducing human wildlife conflict	Periodic maintenance and revamping of tree ladders at 14 locations across the Chinnar Wildlife Sanctuary to reduce road kills of IUCN red listed species like Grizzled Giant Squirrel (Near Threatened) and Nilgiri langurs (endangered).				
		Thermal sensors are conceived as warning system for wildlife and entry to the human settlements in the forest fringes. This warning will be issued to the inhabitants of the settlements and to Rapid Response Teams. It was decided to pilot the thermal sensors at Malayattoor Forest Division				
	3.1.2 Management and reduction of waste inside the forested areas supporting Green Grass Project	during the technical scrutiny of the activity proposal. Identified waste generation hotspots within and outside Protected Areas and finalized the forward linkages and systems to be established in each hotspot.		The activity is on track and is partially affected as a result of Covid-19 lockdown.		
	3.1.3. Protection of sandal wood forests through improved technologies (establishing digital fences in selected priority areas)	Marayoor sandal wood forest is a unique ecosystem in the project landscape. The primary objective of this activity is to establish digital environmental sensors as part of introducing smart forest approach in protecting the unique Marayoor sandalwood from theft and reducing the manual labour cost for better management of the sandalwood area. The activity entails a feasibility study to develop a solution for timely detection and prevention of unauthorized axing/ chopping-off of valuable trees, which would indirectly monitor the health and growth of these trees, thereby contributing to the social goal of conserving forests and protecting flora and fauna and providing a sustainable solution to meet this objective.		The activity is on track and is partially affected as a result of Covid-19 lockdown.		
		The limitations of conventional methods of sandalwood protection was identified. In order, to overcome the issues identified it was proposed to do digital fencing. This will also aid in free wildlife movement.				

		Theft prone areas were identified and locations				
		for installing the sensors were shortlisted.				
		Advertisement released in newspaper for				
		identifying agencies as part of this activity.				
Output 3.2.	3.2.1 Training forest	Virtual Capacity building trainings has been		The activity is on track and is		
Institutional	dependent communities, VSS,	provided to Vana Samrakshana Samithi members		partially affected as a result of		
olatforms of	EDCs & frontline forest	at Vanashree eco shops. (for what)?		Covid-19 lockdown.		
multiple	officials on:	Vanasree is an initiative of the Forest Department				
stakeholders	Livelihood skill development	to add value and market the products of Joint Forest Management Committees and Eco				
evolved and	(advanced wood working	Development Committees. This initiative was				
strengthened at	course to 25 tribal youth)	started in 2011-12 and currently, it has a network				
appropriate	Eco tourism destination	of 41 collection centres, 11 value addition centres				
levels for	management: Visitor	and 37 Vanasree shops in the state to procure,				
planning and	management and disaster	add value and market NTFPs.				
reviewing sustainable	risk reduction in eco- tourism					
resource use	destinations					
	Local Action Plan for Climate					
	Change in 8 FDAs (106 VSS &					
	EDCs					
	Advanced community					
	research improvement:					
	census					
	techniques & habitat					
	monitoring protocol by giving					
	training and involving tribal					
	communities					
		The Thattekkad Bird Sanctuary is one of the six		The activity is on track and is		
		Protected Areas in the Project landscape. The		partially affected as a result of		
	3.2.2 Community based bird	Sanctuary and adjoining areas are crucial link of		Covid-19 lockdown.		
	conservation at Thattekad	the landscape due to its topographic position and				
	and adjoining areas	altitudinal gradients. Major forests of the				
	Conducting certified course	Sanctuary include tropical evergreen, semi- evergreen, moist deciduous forests, riparian				
	on ornithology and birding for	forest and teak plantation. Sanctuary harbors				
	tribal youth	about 322 species of birds including several				
	Publishing book on bird in	species of migratory and endemic birds.				
	local language Developing					
	Salim Ali sathram as heritage	Draft version of the ornithology course book on				
	building	birds (field guide) has been developed.				
		Virtual Capacity building sessions conducted for				
		forest trainers				
	3.2.3 Strengthening of Chilla	The Kerala Forest Department of Marayoor		The activity is on track and is		
	market through automation	Sandal Division in Idukki district started a local		partially affected as a result of		
		open market called 'Chilla' ('Protection' in		Covid-19 lockdown.		

of existing market system- Establishing goods transportation facilities for tribal NTFPs and Agriculture produces from tribal settlements	English), to ensure the farmers at the tribal settlements in the region get a fair price for their organically grown agricultural produce. The main aim of the market is to help the tribal farmers sell their products and livestock from their tribal settlements at a reasonable price. Considering the challenges at Chilla market, it is important to explore the possibility of Process automation at Chilla market. Process automation is the use of technology to automate business processes to sequentially transition from one task to the next with minimal human intervention. The primary objective of the assignment is to undertake an intervention in the process automation of Chilla market which will help in easy operations and can reap major benefits. As a part of strengthening, Chilla market (tribal community market) branding exercise were carried out and logo concept was shared with forest department officials for approval. Pilot run of the automation of Chilla market was successfully carried out during the quarter and the process has been put in place. A building for Chilla market has been completed as part of co finance by Forest Department sourced through NABARD. Inauguration is being planned for the renovated Chilla Market with the automated bidding system in place in the month of August.				
3.2.4. Strengthening of RRT (Marayoor, Munnar & Malayattoor) in the landscape by providing improved facilities & establishing tool rooms 3.2.5 Establishing decision support system in the form of centralised digital database management of existing geospatial maps, studies, surveys, research publications and so on.	Identification of the gaps in efficient functioning of Rapid Response Teams were completed and areas for further interventions have been identified. It has been decided to provide insurance for snake rescuers in the project area. Strengthening of conservation measures and management systems is being done by establishing geospatial database through ground level GPS aided recording of spatial information on various ecological parameters contributing the improvement of wildlife habitat and reducing the threats to wildlife, its habitat, and the human-wildlife interface.		The activity is on track and is partially affected as a result of Covid-19 lockdown. The activity is on track and is partially affected as a result of Covid-19 lockdown.		_
	installed at Munnar Wildlife Division. Data				

	compilation and collation of various spatial information is ongoing. feco- Handrails has been installed at Athirappilly	The activity is on track and is		
3.2.6 Upgradation of tourism destination interpretation centr address the special make them differen friendly at Athirappo Thattekad including development of eco website for different	and waterfalls tourism spot to make it disabled friendly. Athirappilly waterfalls tourism spot is meeds and managed by Vazhachal Forest Development Agency. Agency.	partially affected as a result of Covid-19 lockdown.		
3.2.7 Developing gro building code with e efficient facilities & the same in the land (Divisional Office,Fo Station IB and Chec one each)	nergy convert the Mankulam Anti-Poaching camp shed piloting into a green building with solar powered energy scape facilities. rest k k post –	The activity is on track and is partially affected as a result of Covid-19 lockdown.		
3.2.8 Establishment museum at Marayo		To be reallocated.		
3.2.9 Facilitating lar level multi stakehold for sustainable land management	ler forum of Kerala on the formation of –	The activity is on track and is partially affected as a result of Covid-19 lockdown.		
	activities and to enable cross stakeholder convergence. Another proposal has been submitted to the Government of Kerala to institutionalize the above cross sectoral forum as the institution to			

		carry forward the initiatives taken up during the				
		project period. The proposal was discussed with the Addl Chief Secretary, Planning & Economic Affairs, Govt. of Kerala.				
	Enhancing management effectiveness of HVBAs					
Output 3.3: Management effectiveness of designated biodiversity rich ecosystems are strengthened to address existing and emerging challenges to ecosystem conservation and services	3.3.1. Establishment of cyber wildlife crime control cell at Forest Head Quarters	As part of conserving the wildlife population by effective interventions, preliminary works for the setting up of cyber monitoring cell with wildlife crime database management system and capacity building of enforcement agencies dealing with cyber wildlife trafficking by providing professional assistance and training in a phased manner is in progress. The occurrences of cyber wildlife crime trafficking not only in the project landscape but also in the entire State such as the networks of poachers, traders, virtual markets, and the consumers through the online platform shall be monitored and disrupted through a centralized monitoring cell through trained professionals. Discussions were held with the Chief Wildlife Warden on setting up the cell at Forest HQ. As per the decision of the Chief Wildlife Warden, the cell will be integrated with the Forest Department's cyber cell. The infrastructure will be provided by the Forest Department and the technical facilities will be provided by the UNDP Project.		The activity is on track and is partially affected as a result of Covid-19 lockdown.		
	3.3.2. Review of Management Plan guidelines; Review of State Forest Policy Review and validation of METT and MEE scores of PAs within the project landscape to identify gaps	Management Plans of Anamudi Shola National Park and Pampadum Shola National Park has been prepared and submitted for approval. Preparation of draft management plans of Munnar and Marayoor Forest Divisions is ongoing.		The activity is on track and is partially affected as a result of Covid-19 lockdown.		
	3.3.3 Developing eco- compatible habitat monitoring cell inside Eravikulam National Park Esatablishment of habitat and wildlife health monitoring cell at Thattekkad	Eravikulam National Park forms the largest conservation landscapes in the Western Ghats with several rare and endemic species including largest viable population of Nilgiri tahr in the world. With these diverse values the park is holding, monitoring of the various habitat types becomes a challenging task. To improve the habitat, permanent monitoring stations are envisaged in an eco-friendly manner.		The activity is on track and is partially affected as a result of Covid-19 lockdown.		

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	The construction of earthen structures is near			
	completion and procurement of equipment for			
	installation is going on.			
	The revamping of the infrastructure for the			
	habitat monitoring cell is done by the co-			
	financing from Forest Department at Thattekkad.			
	The tendering for purchase of equipment for the			
	monitoring cell is on going			
3.3.4. Development of	As part of the technical scrutiny done by State		To be reallocated.	
detailed project report -	Nodal Officer, Forest Department, Chief Wildlife			
Centralized Hospital for	Warden, Forest Department and Sr. Technical			
	Advisor, UNDP, it was decided to utilize the			
Elephants at Vadakkanchery	funds allocated to this activity elsewhere.			
& State level Digital Forensic				
 Lab at Forest Head Quarters				
Habitat Improvement –				
Strategies and				
Implementation				
3.3.5 Removal of plantations			The activity is on track and is	
(Wattle and Eucalyptus),	Monitoring plots were identified to evaluate the		partially affected as a result of	
Eradication of alien weeds,	efficacy of restoration process. 3 zones at		Covid-19 lockdown.	
from PAs and outside PAs,	Anaimudi Shola National Park and 4 zones at			
-	Pambadum Shola National Park were identified.			
Removal of alien species from	Permanent sampling plots were established and			
the high altitude montane	month wise data on biodiversity and regeneration			
grassland (inside and outside	of exotic species are being collected. This is for			
the PAs), Restoration of	developing framework for restoration of the			
identified vulnerable and	landscape.			
degraded forest areas				
(including shola/ grasslands	Controlled removal of exotics from the forest			
segments within PAs and	areas of Pampadumshola, Kurinjimala and			
other degraded areas	reserve forests of Munnar is ongoing.			
including improvement if	1 Lakh soudlings of kurinii spasies has been			
Nilgiri Tahr habitat in	1 Lakh seedlings of kurinji species has been produced and planting of the same at the			
Meesappulimala (Removal of	restoration sites is completed.			
exotics and restoration of	restoration sites is completed.			
grasslands) & designing a	Removal of exotics and planting of native grass			
	species is in progress. 25 Ha completed.			
long term sustainability plan				
for Nilgiri Tahr	Short video developed on ecosystem restoration			
	for Forest day and World Environment Day.			
 3.3.6 Bamboo ecosystems -	This has not been initiated and will be taken up		The activity is on track and is	
mapping of species, age and	once the revision of Letter of Agreement is		partially affected as a result of	
	approved.		Covid-19 lockdown.	
developing conservation				
 measures such as				

measures to prevent exotic invasion and forest fire) at Thattekkad Bird Sanctuary			
3.3.7 Conservation of special habitat like Hornbill and Vayal ecosystems based on the recommendation from the study titled 'Ecosystem requirements of Hornbill"2019-2020	This has not been initiated and will be taken up once the revision of Letter of Agreement is approved.	The activity is on track and is partially affected as a result of Covid-19 lockdown.	
3.3.8 Reviving of aquatic ecosystems at Thattekkad Bird Sanctuary and establishing sustainable monitoring systems for improving the migratory bird habitat	Out of the 14 waterholes in Thattekad Bird Sanctuary, removal of IAS species (<i>Cabomba</i> <i>caroliniana, Limnophila heterophylla, Salvinia</i> <i>species</i>) from 7 waterholes has been completed. Nearly 3.5 Tons of IAS were removed, and habitat of aquatic migratory birds were improved	The activity is on track and is partially affected as a result of Covid-19 lockdown.	
3.3.9 Rejuvenation of flood affected Riparian vegetation (Stabilization of Riverbanks by geotextiles and other environment friendly techniques, planting of suitable riparian saplings) – Chalakkudy River & tributaries of Periyar River	In Vazhachal Forest Division, five potential locations were identified for restoration. 20 species of riparian plants were identified for replanting. Nearly 5000 saplings will be procured this year before the onset of monsoon. In the consecutive years, the plants required for restoration will be availed from the newly established nursery itself. As part of Chalakkudy river restoration 2400 seedlings belongs to 10 species has been planted on an area of 700m2. The planting is currently ongoing.	The activity is on track and is partially affected as a result of Covid-19 lockdown.	
3.3.10 Scientific video documentation of unique features in the landscape such as elephant congregation at Anakkulam and best practices of the Project such as Chilla Market, tree ladder etc in the form of documentaries, coffee table books, short films and IEC materials	Video documentation of eco restoration of degraded forest areas has been completed Draft booklet on "Orchids of Eravikulam National Park" is developed Video documentation of traditional seed conservation at tribal settlements of Chinnar Wildlife Sanctuary is ongoing Concept note prepared for Chilla Market video documentation	The activity is on track and is partially affected as a result of Covid-19 lockdown.	
3.3.11 Study on home ranges - Nilgiri Tahr, Nilgiri Martin, Frogmouth and other key species	As part of the technical scrutiny done by the State Nodal Officer, Chief Wildlife Warden, and Sr. Technical Advisor, UNDP, it has been decided that the funds allocated for this particular activity to study on home ranges of Nilgiri Tahr	To be reallocated	

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		and Nilgiri Marten can be utilized in some other activity					
		activity					
	3.3.12 Demonstrating measures to conserve the soil and water resources inside and outside the Protected Areas by improving the existing water retaining facilities and checking gully	This has not been initiated and will be taken up once the revision of Letter of Agreement is approved.		-	The activity is on track and is partially affected as a result of Covid-19 lockdown.		
	formation in the high-altitude grasslands.						
	grussianas. Human Wildlife Interface management			_			
	3.3.13 Management of human-wildlife interface (identification and mapping	The sites for establishing sensors for alerting elephant entry into settlement area has been identified. Consultation was made with few agencies to demonstrate the sensor techniques. The agency visited the locations and mapped the area.			The activity is on track and is partially affected as a result of Covid-19 lockdown.		
	of corridors, development of early warning systems and other short term and long- term strategies with potentials of co-financing)	Work order will be issued after getting permission from the Chief Conservator of Forests, High Range Circle. Technical agency has been identified for Mapping of corridors in the landscape. They have submitted the technical and financial proposal which has been scrutinized and await approval from CCF.					
	3.3.14 Facilitating the preparation of comprehensive plan for protecting the Anayirangal elephant ecosystems in Chinnakkanal	The Conservation plan developed for protecting the Anayirangal elephant ecosystems in Chinnakkanal has been presented before the Chief Conservator of Forests Council of the Kerala Forest and Wildlife Department. Based on the suggestions provided, field data is being collected.					
	3.3.15 Establishment of Veterinary Care unit - rescue and rehabilitation centre; Establishment of Monkey Rescue Centre at Malayattoor	This has not been initiated and will be taken up once the revision of Letter of Agreement is approved.					
Output 3.4: Rare Endangered and Threatened	3.4.1 Establishment of nurseries with micro- propagation facility for RET species at Devikulam	Studies are being carried out to understand the mode of propagation of 14 shola species (Rare Endangered and Threatened). The nursery for the generation of seedlings have been established.					

(RET) ecosystems and endemic species are secured through improved conservation measures	3.4.2 Establishment of centralised grassland/shola/ nursery at Devikulam & Pampadumshola. Sandalwood nursery at Marayoor. Riparian species nursery at Chalakkudy & Vazhachal	Mapping of shola eco systems in and around tea plantations has been completed. The biodiversity assessment of shola ecosystems has been completed. Currently, the plan for securing these ecosystems is undergoing. Mother beds for two grassland species is established at Devikulam and Pampadumshola National Park (924 & 720 numbers respectively) 45000 seedlings of 11 shola species are raised at the Central Nursery, Devilkulam, Idukki District Nursery for sandal wood plant species has been established. 10,000 seedlings are being propagated at the nursery in Marayoor, Idukki District. 1 Lakh seedlings of Kurinji species has been produced at the Pambadum Shola National Park and have planting has been started at restoration sites in Kurinjimala Wildlife Sanctuary. Both the Protected Areas are in the Idukki District.		The activity is on track and is partially affected as a result of Covid-19 lockdown.			
	3.4.3Technical Experts/Consultants extended to MoEFCC, Haritha Keralam Mission and State Forest Department (Salaries)	Consultancy charges and PMU costs					
		Outcome Total				\$ 58,507.85	
Project Management Cost						\$ 761.47	
				Sub Total: \$ 197,293.46			
				Project Management Expenses: \$ 7	61.47		
				Grand Total: \$ 198,054.93			

Delivery target for 2021: USD 2,000,000

Delivery for 2021 by end of Quarter 2: USD 503,428.12

2. PO's Overall Analytical Report

2.1. Narrative – based on PO's own assessment, BTORs and other reports

2.1.1. Comments on progress in project as per QPR, and on whether the project is on the right track:

The project is on track. The suggestions provide in the Mid Term Review on certain implementation arrangements have been worked out and has been put in place. This includes posting a Project Coordinator, posting a Technical Advisor, ensuring M&E at the Country Officer, etc. The frequency of FPIC meetings has also been increased to make sure the communities and Panchayath representatives are completely on board with the project activities.

Two occurrences affected the project progress during the Q2 reporting period – 1. The Covid-19 induced lockdown in the state from May 8th to June 16th, 2021 and 2. The Model Code of Conduct on account of State Assembly Elections from April 1st to April 30th 2021. Many of the meetings had to be postponed or cancelled. Some meetings could be done through the online media.

2.1.2. List of project issues/ risks that the PO wants to ensure are included and addressed in the PSC:

List of issues:

- 1. Forming a Landscape Level Advisory Committee with landscape level stakeholders for landscape level convergence
- 2. Forming a State Level Advisory Committee with state level stakeholders for state level convergence
- 3. Project extension on account of time lost due to Covid and fund transfer delay

2.1.3. List of issues that the PO wants to escalate to unit Heads/ senior management:

List of issues:

1. The project continues to face apprehensions on certain project activities being contradictory to the interests of few sections of the community; The project team and the SPV have tried to assuage these fears through local level meetings and block/ district level meetings.

2.2.Section on Gender and Inclusion

2.2.1. What were risks related to:

a) mainstreaming gender

The project takes into consideration the gender dimensions while undertaking activities related to biodiversity conservation and sustainable livelihoods. Several interventions have been undertaken w.r.t training and capacity building for alternate livelihoods and sustainable natural resource management wherein 90% participants were women. The key risks related to mainstreaming gender includes:

1. Loss of livelihood opportunities as a result of Covid related restrictions

- 2. Social stigma associated with sanitation workers especially in the Covid period leads to women green entrepreneurs (Haritha Karma Sena) not getting expected support from the general public in carrying out their responsibilities
- 3. Climate vulnerabilities leading to failure of crops being promoted through the project (like sustainable sugarcane farming, lemongrass, traditional seeds like millets/rice varieties etc.) where women were taking lead
- 4. Lack of markets for products from the women led enterprises
- 5. Gender roles with regards to natural resources like women can take up livelihood opportunities close to home, men to take up activities that involve more skill & training, etc.
- 6. Unavailability of a credible database on LGBTQ community for gender mainstreaming of genders other than male & female

b) concerns of women and men belonging to the marginalized groups e.g. related to participation, access and control of resources and benefits, etc.?

- 1. Loss of livelihood opportunities as a result of Covid related restrictions
- 2. Climate vulnerabilities leading to failure of crops being promoted through the project (like sustainable sugarcane farming, lemongrass, traditional seeds like millets/rice varieties etc.)
- 3. Lack of markets for products

2.2.2. What were challenges related to:

a) mainstreaming gender and

1. Covid lockdown and health concerns accentuated the stigma associated with the sanitation workers who are women SHG members or Haritha Karma Sena. This was one of the reasons why they could not go for household collection of solid waste in the project area.

2. Unavailability of a credible database on LGBTQ community for gender mainstreaming of genders other than male & female

3. Because of restrictions in movement of people and closure of shops and other commercial establishments, women have lost livelihood opportunities including Employment Guarantee Schemes

b) concerns of women and men belonging to the marginalised groups, e.g. related to participation, access and control of resources and benefits, socio-cultural/institutional obstacles, etc.? Any new upcoming opportunities/ ideas on facilitating gender & inclusion in the project?

- 1. Loss of livelihood opportunities as a result of Covid related restrictions
- 2. Climate vulnerabilities leading to failure of crops being promoted through the project (like sustainable sugarcane farming, lemongrass, traditional seeds like millets/ rice varieties etc.)

2.3 Any innovations/ success stories (completed or ones to watch for) that PO wishes to bring on board or for Communications to follow up:

- 1. Sustainable Sugarcane initiative SSI focus on improvement of value chain of Sugarcane with focus on production side intervention for small and marginal farmers in Marayoor and Kanthalloor Panchayaths
- 2. Green Innovation Fund Green Innovation fund has been launched for social enterprises to address biodiversity conservation challenges in the landscape.

- 3. Carbon Neutral Mankulam Through the project, a unique attempt is being made to develop Mankulam Grama Panchayath as a Carbon neutral panchayath. Mankulam Panchayath has over 1000 farmers practicing organic agriculture and is very rich in forest cover.
- 4. GIS Cell GIS center, established by the Vazhachal Forest Development Agency, has started functioning. Various spatial information has been collated so far and a geo database has been developed for planning. Forest fire management and mitigation plan was prepared by this cell for the Vazhachal Forest Division.
- 5. Biodiversity Parks Green islands/ Biodiversity parks aim at developing biodiversity demonstration plots and ensure community participation for biodiversity conservation. It is done in convergence with the MGNREGS workforce. Maintenance is ongoing in 12 plots across 7 Panchayaths Marayoor, Kanthalloor, Chinnakanal, Mankulam, Adimali, Kuttampuzha and Athirappilly. Saplings were sourced from Central Nursery by Forest Department, MGNREGS nursery and Social Forestry Nursery. Around 1220 saplings, including medicinal plants varieties and native fruit trees, were procured, and planted across the 12 locations generally linked with local educational institutions.
- 6. Sustainable Tourism initiatives High value low impact tourism models at Kuttampuzha (Ernakulam District) and Mankulam Panchayath (Idukki District). A community centered sustainable tourism model is being developed for the two panchayaths. The sustainable tourism plan is developed based on resource mapping and stake holder consultations done in the two Panchayaths. Experiential tourism packages and products promoted for local economic development.
- 7. Visual Media course One of the videos taken as part of Covid awareness, features a tribal community member Laya. Laya is the coordinator of a partner agency working on waste management as part of the project. The video was produced by Arjun Murali, another tribal community youth in the project landscape who is also a student of the Visual media course that has been launched in July 2021. The course supports 25 youth, like Arjun, from underprivileged communities (Scheduled Caste and Scheduled Tribes) from the landscape on visual media.

2.4: Any partnerships / success stories (completed or ones to watch for) that PO wishes to bring on board or for Communications and partnerships team to follow up:

1. Recity – Partnership with Recity group which operates with CSR funding from Nestle for Munnar Waste Management

Anuslia Sharma

Team Leader a.i.