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SOIL AND WATER CONSERVATION AND SUSTAINABLE ECOSYSTEM MANAGEMENT PROJECTS 2019 & 2020 - Biennial Workplan and Budget

	20	2019		20	2020		2019+2020
Project name	Amour	Amount (USS)		Amour	Amount (US\$)		Total
	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	(USS)
1. Integrated Semenawi and Debubawi Bahri-Buri-Irrori- Hawakil Protected Area System for Conservation of Biodiversity and Mitigation of Land Degradation, 770,833 NORTHERN RED SEA, SOUTHERN RED SEA, MAEKEL & ANSEBA	770,833	770,833	877,083	877,084	580,132	580,132	4,456,097
2. Mainstreaming climate risk considerations in food security and IWRM in Tsilima Plain and upper catchment area, ZOBA DEBUB REGION	536,000	536,000	1,100,750	1,100,750	1,200,750	1,200,750	1,100,750 1,100,750 1,200,750 1,200,750 5,675,000
3. Restoring Degraded Forest Landscapes and Promoting Community-Based, Sustainable and Integrated Natural Resource Management in the Rora Habab Plateau, NORTHERN RED SEA REGION	775,950	775,951	1,046,125	1,046,125	1,046,125	1,046,125	1,046,125 1,046,125 1,046,125 5,736,401
TOTAL/3 UNDP/GEF funded SWC and Sustainable Ecosystem Management Projects	2,082,783	2,082,784	3,023,958	3,023,959	2,827,007	2,827,007	2,082,783 2,082,784 3,023,958 3,023,959 2,827,007 2,827,007 15,867,498

Date: 25/07/3019	Signature.	Dr. Giorgis Teklemikael Minister Ministry of National Development
Date:	Signature NATHON	Ms. Susan Ngongi Resident Coordinator UN, Eritrea
Date:	Signature Signature Company of the C	Mr. James Wakiaga Resident Representative UNDP Eritrea
23/09/19 19 18 1000 B	Signature	Woldemichael Abraha Minister Ministry of Local Government

INTEGRATED SEMENAWI AND DEBUBAWI BAHRI-BURI-IRRORI- HAWAKIL PROTECTED AREA SYSTEM FOR CONSERVATION OF BIODIVERSITY AND MITIGATION OF LAND DEGRADATION

Project name	Amount (US\$) 3rd 4th Qtr Qtr	(US\$) 4th Otr	1 St	Amount (US\$ 2nd 3rd Qtr Qtr	20 t (US\$) 3 rd Qtr	4 th Qtr	2019+2020 Total Amount (US\$)
NRS ¹ , SRS ² , Maekel, Debub & Anseba							
Integrated Semenawi and Debubawi Bahri-Buri-Irrori- Hawakil Protected Area System for Conservation of Biodiversity and Mitigation of Land Degradation, NORTHERN RED SEA, SOUTHERN RED SEA, MAEKEL & ANSEBA	770,833	770,833	877,083	877,084	580,132	770,833 877,083 877,084 580,132 580,132 4,456,097	4,456,09

UNDP/GEF funded projects within the protected area systems by Zoba and activities

					- אסטותפוח אבט פרע (פראי). הטווטישיט, בעויים פראים פרויים
600,000			600,000		MASONRY CHECK-DAM
					Maekel: Geremi, geshnashim, Adikolom, Defere, Deki-Petros
106,667		106,667			TERRACES CONSTRUCTION
					Maeket: Hayello, Guritat, Quazem, Azien, Adengoda
266,667		266,667			MOLITICAL INTO): Latinounity transity Contracts
300,000				300,000	Northern Red Sen (NRS): Emhatkala Hutsit, Gahteilai
	,				RESTORATION OF DEGRADED LAND/TERRACES CONSTRUCTION/SWC
		1			
1,382,763				1,382,763	CORE AREA OF THE PROTECTED AREA SYSTEMS WATERSHED CONSERVATION/CATCHMENT TREATMENT: NRS/Sub-zoba Ghinda'e: Fishey-mirara, Tseret, Nefasit, Mai-habar, Ginda'e, Dengollo, Embatkala, Leaiten, Adishuma,
(USS)					
(USS) (2619+2020)	(USS)	(USS)	(USS)	(USS)	Project specific sites and activity
Total	Anscha	Maekel	SRS	NRS	

¹ Northern Red Sea Region
² Southern Red Sea Region

4,456,097	600,000	373,334	600,000	2,882,763 600,000 373,334 600,000	Total
1,200,000	•	,	1	1,200,000	- Northern Red Sea (NRS): Mai-habar, Husit, Demas, Tseret Seredom, Ad-shuma, Fulgenda Dengolo-la'elai
600,000	600,000		'	-	LOOSE ROCK CHECK-DAM - Anseba: 3 sites in Gheleb

Biennial Work Plan

Period - 2019 & 2020

SPCF Outcome(s): Expected Output (s): 1.1 Regulatory framework for protected areas management ecosystem degradation, climate change, and strengthening community resilience to disasters. By 2021: Environmental and natural resources management is gender responsive and sustainable, negating the impacts of

- 1.2 National administration for protected areas management 1.4 National strategy for protected area conservation and financing 1.3 National biodiversity conservation monitoring program
- 1.6 National biodiversity conservation training program 1.5 National protected area regulatory implementation guidelines
- 2.2 Model training program implemented for protected area management and staff 2.1 Three new protected areas officially recognized and launched
- 2.3 Three model protected area management plans
- 2.4 Three model protected area business plans
- 2.5 Integrated and inclusive management mechanisms established
- 3.1 Farm/Fishing Field Schools established to build local SLM/SFM capacity
- 3.2 Sustainable resource management plans
- 3.3 Implementation of model ecosystem service conservation measures

Implementing Partner: Ministry of National Development and Ministry of Local Government

Brief Description

project objective is to create policy and institutional conditions to operationalize the national protected area system. The project goal is to ensure the integrity of Eritrea's diverse ecosystems in order to secure the viability of the nation's globally significant biodiversity. The

As a young nation, Eritrea has yet to establish a contemporary system of protected areas. Eritrea hosts a wealth of globally significant biodiversity, including remnant populations of African wild ass, highland forests unique to the Horn of Africa, and an extensive, ecologically intact Red Sea marine environment. A national system of protected areas would contribute substantially to securing the long-term survival of Eritrea's globally significant biodiversity.

support achievement of protected area conservation objectives. required protected area management capacity and experience; and, generation of SLM/SFM capacity required to restore/maintain ecosystem services required to The project objective will be achieved through three outcomes: establishment of necessary protected area policy and institutional frameworks; emplacement of

viable terrestrial and marine areas. The immediate result will be an effective regime of national conservation areas covering nearly one million hectares of currently The Project will support to set in place the basic elements required by policy makers, protected area managers, and rural communities to conserve large, ecologically

un-protected terrestrial and marine ecosystems.

Management Arrangements:	Project End Date	Project Start date:	Atlas Award ID:	Key Result Area (Strategic Plan):	Programme Period:
NiM	October 1, 2020	October 1, 2013		Mobilizing environmental financing	84 months

2019 & 2020 Total allocated resources: US\$ 4,456,097

2019Total allocated resources: US\$ 1,541,667

UNDP Track: USD-

GEF fund: US\$ 1,541,667

2020 Total allocated resources:

US\$ 2,914,430

UNDP Track: US\$-GEF fund: US\$ 2 US\$ 2,914,430

Government: In kind:

Office space and utilities

Technical experts at national and district levels

of Biodiversity and Mitigation of Land Degradation 2019-2020 Biennial Workplan: Integrated Semenawi and Debubawi Bahri-Buri-Irrori- Hawakil Protected Area System for Conservation

		55 000	22.00	2020		
	57.500	57,500		2019		national PA system
	167.500				OUTCOME 2: Emplacement of Management capacity and experience required to operationalize	OUTCOME 2: Emplacement of Mar
in wy in ord	10,000		10,000	2020	Appearance to the Broken Ly state	conservation training program
NIRS/MOLG	1	1		2019	Vocational training program for DA staff	Output 1.6: National biodiversity.
NRS/MoLG	10,000	ı	10,000	2020	implementation guidelines	
		-	,	2019	Training of PA staff, line ministries staff and other relevant	guidelines
inited initial	10,000	1	10,000	2020	to support implementation of PA regulatory framework)	Output 1.5: National PA regulatory implementation
NBC/Mod G	t	,		2019	Development & Implementation of national PA guidefines (tools	
	20,000	20,000	,		biodiversity, marine status and agricultural productivity)	
			-		stations, tools to measure the status of grasslands, forests	conservation monitoring program
NRS/MoLG		1	'	1	Procurement and installation of tools & equipment for biodiversity and ecosystem monitoring (water monitoring	Output 1.3: National Biodiversity
				2010		
NRS/MoLG	5,000		5,0000	2020	guidelines to Tigrinya and Arabic	
		1		2019	Translation of the PA Legislation/policy and implementation	Framework for PA Management
NRS/MoLG	20,000-		20,000	2020	יא בייטימיניקולי מוויף מבאמיסלונודוני	Output 1.1: Regulatory
	1 .	ķ.	1	2019	DA legislation/Policy development	
	75,000	20,000	55,000	2020		
	1	r	,	2019	erenen men honek ann manenomer) mue mores eo oberationante.	national protected areas system
	75,000				OHTODAS 1. Establishment of protested area policy and institutional frameworks to anomationaliza	OHTCOME 1: Establishment of arou
implementing Partner	Amount (\$)	3rd & 4th	1st & 2nd	Year	Activities description	
Activity allocation by	Total	y budget ation	allocation		Main activity	Project Outcome/Output

	300,000		300,000	2020	Loose rock Check-dam	management
	300,000	300,000	1	2019		ecosystem service
				2020		and sustainable
Maekel/MoLG	265,667	266,667		2019	The state of the s	Implementation of soil and water conservation
	300,000	-	300,000	2020	Restoration of degraded land/SWC	Output 3.3.2:
NRS/MoLG			•	2019	VI WILL	בייוסבו אמנוסוו וווערידים: רא
	1,070,263	1,070,2	12,500	2020		ecosystem service
NRS/MoLG	,	1		2019	Support implementation of SLM/SFM to rehabilitate degraded terrestrial and marine ecosystems as well as provision of alternative livelihoods to	Output 3.3.1:
	10,000	5,000	5,000	2020	Satisficial and an analysis an	SLM/SFM capacity
NRS/MoLG		1		2019		communities around the established PA on
						to build capacity of local
NRS/MolG	25,000	12,500	12,500	2020	d Establishment of 20 Fro (to include approx. 200 Histogram)	Field Schools established
	4	1	1	2019	i	7 1
	2,724,430	1,087,763	1,636,667	2020		
	1,466,667	1,466,667		2019	st of the state of	COLCOMIT O. Octicionion
	4,191,097				OUTCOME 3. Comparation of SUM/SEM capacity required to support national system of PA	OUTCOME 3. Compration
NRS/MOLG	10,000	5,000	5,000	2020	Development of Management plans for the 3 established PA	Model PA Management Plans
	1	. 1		2019		Output 2.3: Three
	10,000	5,000	5,000		Midia	Management and staff
				2020	Implementation of the training plan for professional PA staff and	training program implemented for PA
NRS/MoLG	! 			2019		Output 2.2: Model
NRS/MoLG	80,000	45,000	35,000	2020	Forest wardens (#40)	
, , ,	57,500	57,500	'	2019		ang (auncheu
	10,000			<u> </u>	consultation, transport, delineation of settlements etc)	PA officially recognized
		<u>.</u>	10,000		Semienawi/Debubawi Bahri Greenbelt (Survey work, community	Output 2.1: Three new
NRS/MolG				2020	Demarcation (mapping) of Buri Peninsula & irrori/Hawakii Bay	
	-			2019		

	Monitoring and Evaluation & Project management			Ponds construction			erraces Construction/SWC		
2020	2019		2020	6102		2020	6107	2020	2019
7,500			600,000	•	1.06,667		ŀ	300,000	
7,500	7,500			600,000			-	•	300,000
15,000	7,500	22,500	600,000	600,000	106,667	• •		300,000	300,000
		UNDP		NRS/ MolG		100000000000000000000000000000000000000	Markel/ Mol G		Anseba/ MoLG

MAINSTREAMING CLIMATE RISK CONSIDERATIONS IN FOOD SECURITY AND IWRM IN TSILIMA PLAIN AND UPPER CATCHMENT AREA

ZOBA DEBUB REGION Mainstreaming climate risk considerations in food security and IWRM in 536,000 536,000 Tsilima Plain and upper catchment area.			Drojert name	
536,000	Qtr	3rd	Amount (US\$)	2019
536,000	Qtr	4th	t (US\$)	19
1,100,750	윾	<u>1</u> 5t		
1,100,750 1,100,750 1,200,750 1,200,750	Qtr	2 nd	Amount (US\$)	2020
1,200,750	Qtr	ω	t (US\$)	20
1,200,750	Qt	4 th		
5,675,000		(vs\$)	Total Amount	2019+2020

Funded projects by activities (Source of fund: UNDP/GEF)

5,6/5,000	Total Tsilima Plain and its environs/buffer zone
1,400,000	Masonry check-dam: Dgramereito, Adi-nefas, Mai-edaga, Maiedo, Beitemaria, Adi-Quodo, Adi-adda (see annex for detail)
134,000	Catchment treatment: Tsilima Plains (Takitta—Diga-Warsai)
4,141,000	Watershed conservation/Catchment treatment-Tsilima Plains/covering the whole sub-zoba Dbarwa: 28 Mimhidar kebabis/82 villages: Ternajlla, Adi-bezehanes, Amadr, Deki-tsun'a, Ade-bizaghe, Adi-kubullo, Elabo, Adi-gebrai, Zawil, Gerteti, Kisad-da'ero, Adi-sherefeto, Shiketi, Azaihe, Adi-felesti, Gula-ahfera, Demb-gu'uf, Adi-nahbai, Mai-dima, Mai—albo, Adeke-tekula, Adi-logo, Adi-geda, Tera'amni, Talla, Gezalamza, Misilam, Mereb
Total (2019+2020) (US\$)	Project/Activity

Biennial Work Plan

Period - 2019-2020

SPCF Outcome(s):

impacts of ecosystem degradation, climate change, and strengthening community resilience to disasters. By 2021, environmental and natural resources management is gender responsive, and sustainable, negating the

Expected CP Outcome(s):

impacts of ecosystem degradation, climate change, and strengthening community resilience to disasters) By 2021, environmental and natural resources management is gender responsive, and sustainable, negating the

Expected Output (s):

1.1 Development of Full-Sized Project document (PPG)

Implementing Partner:

Ministry of Land, Water and Environment

Brief Description

provision of the ecosystem goods and services that underpin community livelihoods. This results in reduced agricultural productivity, threatening the food security of local farmers to implement long-term measures for soil and water conservation. Consequently, ecosystems continue to be degraded and therefore being compromised in their unsustainable abstraction/pumping of groundwater. Furthermore, insecurity of tenure - as a result of the traditional diessa land tenure system - is a disincentive for on land, forest and water resources through: i) expansion of agricultural land into natural habitats and ecosystems; ii) overgrazing and degradation of rangelands; and iii) communities Brief project description: The demand for agricultural production to supply food for a rapidly increasing population in the Central Highlands of Eritrea is placing pressure

in the Tsilima region where the population pressures are particularly pronounced. More specifically, increased variations in rainfall, elevated temperatures and greater Climate change poses additional threats to the functional integrity of ecosystems, local hydrology, agricultural productive systems and community livelihoods, particularly rates of evapotranspiration are likely to have direct impacts on run-off formation and groundwater recharge capacities of the ecosystems.

adaptive capacity of local communities; iii) promoting the implementation of on-farm and off-farm soil and water conservation measures; and iv) establishing a system for and development. risks; ii) few incentives for investing in long-term, climate-smart measures; and iii) weak governance systems for the mainstreaming of climate risks into land-use planning institutional, technical and financial barriers to achieving the preferred solution, including: i) limited technical capacity and information available for the analysis of climate monitoring and evaluating the effectiveness of various approaches to climate change adaptation to inform a process of adaptive management. However, there are multiple local communities to mainstream climate risks into research, policies and land-use planning; ii) implementing climate change adaptation interventions that increase the The preferred solution is to reduce the climate change vulnerability of local communities in the Tsilima Region by: i) enhancing the capacity of government institutions and

data to inform climate change and adaptation options; ii) increasing the technical capacity of relevant government departments to plan and implement adaptation The LDCF-financed project will contribute to overcoming these barriers by: i) enhancing the capacity of academic and research institutions to conduct research and generate interventions as well as provide climate-smart advice and extension services to local communities; iii) implementing integrated water management measures, climate-

smart agricultural and livestock practices, and watershed restoration measures; and iv) raising public awareness and training local communities on the benefits of an ecosystem-based approach to climate change adaptation.

Key Result Area (Strategic Plan): Mobilizing environmental financing Programme Period: Project Start date: Atlas Award ID: Management Arrangements: Project End Date Z 48 months June 2022 June 2019

2019 Total allocation: US\$ 1,072,000 2019-2020 Total allocated resources: UNDP Track: GEF fund: USD 1,072,000 USD 5,675,000

2020 Total allocation: USD 4,603,000

UNDP Track:

GEF fund: USD 4,603,000

Government: In kind:

Office space and utilities

Technical experts at national and district levels

upper catchment area 2019-2020 Biennial Workplan: Mainstreaming climate risk considerations in food security and IWRM in Tsilima Plain and

	Year	Quarterly bud	Quarterly budget allocation	Quarterly
Project Outcome/Output		1st & 2nd	3rd & 4th	allocation
Outcome 1. Information on the impact of ecosystem degradation in aggravating vulnerability to climate				250,000
making	2019		•	•
processes.	2020		250,000	250,000
Outcome 1.1: Capacity of research institutions to undertake climate related research increased	- -			

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10,000	10,000		2019	Generate maps identifying flood and drought prone areas under climate change conditions.	Output 2.1.1: Based on the assessments undertaken in Output 2.2.1: i) identify and map drought and flood prone areas; and ii) develop
				d over 9,000 hectares of the Tsilima Region.	Outcome 2.1: Climate-resilient land use planning implemented over 9,000 hectares of the Tsilima Region.
4,318,000	2,134,000	2,184,000	2020		Configuration and and and and and and and and and an
1,061,500	1,061,500	•	2019	pport the adoption of climate-smart agricultural and	octories 2: children estilent land-use planning to support the
5,379,500					ب
10,000	10,000		2020	Implement M&E methodology and synthesise lessons learned and best practices.	productivity productivity productivity
	•		2019	 Develop an M&E methodology in pilot areas. Train the community members, extension agents, NARI technical staff on the M&E 	ut 1.2.3: A long-term strategy developed and implemented for toring and evaluating climate-smart: I) water resources use
25,000	25,000		2020	working link with farmers.	
,	1		2019	Review and update the extension services package Train extension agents on the revised extension packages, which will support the transition towards CSA and establish an effective	Output 1.2.2: Extension packages reviewed and updated to include best practices and climate-smart approaches.
20,000	20,000		2020	associated software, audio-visual equipment, GPS equipment, topographic survey equipment and software).	in extension services.
	,		2019	Conduct a needs assessment for CCA training (MOLWE and MoA) Provide financial and technical support (computers and	and resource needs assessment,
				vide knowledge-based climate-smart extension services to eased.	Outcome 1.2: Capacity of extension service institutions to provide knowledge-based climate-smart extension services to agriculture, livestock production and water management increased.
20,000	20,000		2020	stakeholders to facilitate the establishment of a community-based EWS in sub-Zoba Dbarwa.	Meteorological Services Unit – and local communities.
'			2019	 Provide training on meteorological observation and analysis to the MSU, other institutions and stakeholders involved in the collection and gathering of meteorological data. 	Output 1.1.4: Climate information and monitoring systems developed in association with relevant line ministries, the
175,000	175,000		2020		conducting research and producing research outputs/products on CSA and production systems.
			2019	Develop local level research capacity through implementing research and training programmes relevant to CCA in the Tsilima Region together with academic and research institutions	Output 1.1.3: Technical and financial support provided to NARt for

Output 2.2.3: Climate-smart watershed restoration and management measures identified and implemented, including: i)	Output 2.2.2: Hydro-meteorological stations established and/or refurbished at Mendefera, Dbarwa and Halhale.		Output 2.2.1: Groundwater and surface water resources assessment undertaken and a groundwater manitoring strategy (including a system of data collection and information exchange on water use and projected demand) developed and implemented in the Upper Mereb catchment.	Output 2.1.2: Local communities strengthened, including inter alia village Agricultural Committees, Water User Associations and Formers' Associations to coordinate local level participation in climate change adaptation, land use and development planning. Outcome 2.2: Integrated water management operationalised across the Tsilima Region, increasing water availability and land under irrigation.	and implement community-based land use and area development plans in the Tsilima Region.
	catchment. Refurbish the existing Class 1 meteorological station at Halhale research station. Provide training for technical staff from NARI, extension agents and other relevant institutions on data collection and record keeping. Provide training to MSU on the interpretation of climate information and translation into locally relevant climate forecasts and early warnings.	groundwater resources Purchase and installation of new hydro-meteorological stations including: i) a Class 1 meteorological station at Mendefera; and ii) three Class 3 meteorological stations within the upper	Ondertake a groundwater and surface water resources assessment and develop a groundwater inventory. Develop comprehensive water development and management plans based upon the ground and surface water resources assessment. Purchase and installation of groundwater monitoring and stream gauge equipment. Provide technical support to strengthen WRD's water resources information database and management system. Provide training to WRD on the assessment and monitoring of Provide training to WRD on the assessment and monitoring of	Provide financial and technical support for the strengthening/establishment of Water User Associations, implement community by-laws for sustainable land, forestry and water resources management. Hold training including exchange experiences for farmers across the Tsilima Region, increasing water availability and	and financial support to undertake learn, including a soil survey and soil chem assist communities in the developmend use and area development plans.
2019	2020	2019	2020	2020	2020
			20,000	5,000	10,000
259,000	175,000	20,000	20,000	5,000	
259,000	175,000	to,000	40,000	10,000	10,000

Output 2.3.1: Climate-smart agricultural practices — informed by research products generated under Output 1.1.3 and land use and area development plans prepared under Output 2.1.1 — developed	Outcome 2.3: Increased food production through the implementation of climate-smart agricultural practices across the Tsilima Region.	increased -	Output 2.2.4: Degraded land conserved, and land productivity		soft engineering interventions.	alia water harvesting, construction and maintenance of hard and	Output 2.2.4: Local communities and households trained to					•		,		•														•	water conservation measures.	water spreading facilities; and iii) on-farm and off-farm soil and	water horvesting and staring interventions; ii) flood diversion and
Identify and implement a range of climate-smart agricultural technologies and methods within and around pilot communities:	of climate-smart agricultural practices across the Tsilima Region.	Catchment treatment	Masonry Check-dams construction	and technologies.	excutation and maintenance of materials processed materials.	Provide training for local communities, including farmer-farmer	approaches that are specific to water management, including:	_ ≥	farm soil and water conservation measures.	diversion and water spreading facilities; and iii) on-farm and off-	of: i) water harvesting and storing interventions; ii) flood	Train and engage local communities in the planning and design	sub-Zoba Dbarwa and NARI.	Establish and/or upgrade existing forestry nursery sites within	planting and indigenous plants to fill gaps.	iii) expanding enclosure areas; and iv) promoting enrichment	forestry initiatives;	indigenous and fast-growing exotic species in community	the upper catchment area; ii) using a mix of drought-resistant	planting \sim 17,500 seedlings on 300 hectares of farmland and in	watersheds through, inter alia: i) promoting agroforestry by	Promote natural regeneration and reforestation of degraded	community enclosures.	mountain ranges of the upper catchment area; and iv)	an area covering 600 hectares of degraded land in the western	planting of 1.2million indigenous and multi-purpose trees over	maintaining 200 existing permanent and seasonal enclosures; iii)	establishing 150 hectares of new enclosure areas and	within the Tsilima plain including inter alia: i) hillside terracing; ii)	Develop and implement soil and water conservation measures	other uses.	infiltration and make runoff available for i	Promote rainwater harvesting by treating land surfaces to
2019		2020	2019	2020	200	•		2019																					•				2020
		692,500		1			•				•••		•				•••				92,126										•		
000,000		200,000	692,500	10,000					1,474,000																								
100,000		892,500	692,500	10,000						2,395,500											•				•			•	•				

4,000	,	4,000	2020	the effects of climate change and benefits of appropriate CCA interventions.	conducted in the Tsilima Region using all forms of media (including inter alia print, radio, art and drama)
3,000	3,000		2019	•	Output 3.1.1: Public awareness-raising and education compaigns
				Outcome 3.1: Increased monitoring, knowledge-sharing and awareness at Zoba, sub-Zoba, Kebabi and community levels on: i) climate change risks; ii) climate- and ecosystem-smart watershed restoration; iii) climate-smart agricultural technologies and measures; and iv) the sustainable use and management of natural resources.	Outcome 3.1: Increased monitoring, knowledge-sharing and awareness at Zoba, sub-Zoba, Kebabi and on: i) climate change risks; ii) climate- and ecosystem-smart watershed restoration; iii) climate technologies and measures; and iv) the sustainable use and management of natural resources.
	*5,000		2020		
25,000	12.500	12,500	2020		
3,000	3,000	•	2019	Traine Section 19	Odkoffie 5: Nilowiedge Hallagelbeitt, gehaaf and awareness talong
28,000		:		aranace-raising	Tutamo 3. Provideda managament gondor and awa
450,000	250,000			activities,	
אַבָּח הַאַת	250 000			- Provide training of community members on value-addition	
				iv) promotion of small stock.	
				iii) promotion of beekeeping; and	
		200,000		unaria and other falls trace.	
		200 000			and implemented in selected communities.
				in introduction of multipurpose tree species into	Output 2.3.2: Alternative income-generating livelihoods identified
				() expension or misored agriculture, want one promit	
				i) expansion of irrigated agriculture, dairy and poultry	
			2020	selected income-generating activities:	
				provide technical and financial support for implementation of	
				necessition activities appropriate and specific income	
			2010		
335,000	ı				
				enance of CSA techn	
				- Train local communities on the implementation and	
				TT:	
				viii) promoting rotational grazing, cut and carry, and	
				vii) introducing tree-planting campaigns; and	
				species;	
				vi) promoting the conservation of native fodder and crop	
	_			catchment area;	
		335.000		in the upper catchment area and 137.5 hectares in the lower	
				over 625 hectares of grazing land – including 360 hectares	
				 v) adopting improved rangeland management practices 	
			•	iv) promoting agroforestry;	
				iii) promoting conservation agriculture;	
			_	systems;	rangeland and livestock management.
				ii) promoting integrated crop and livestock productivity	iii) conservation agriculture; iv) agroforestry; v) silvopasture; and vi)
					and transferred to Jornacia, including: If probability and process.
	•		2020	i) planting faster maturing, drought- and disease-resistant	and transferred to formers including: i) drought and dispase-

	Monitoring and Evaluation & Project Management			מהם הוסומנטיות מיבה שברככשה.	months in present their surfaces approximately maperature and acceptance and acceptance of	women in planning selection implementing adaptation measures	includes connectly building and enhancing the participation of	Dutaut 3.1 A. A gender strategy developed and implemented which		הימיים לביוימייל אוות וא) יתונסים יו בסממיבר מסבי	mondiamont and his natural decolution uses.	restaration ii) climate const posiculture: iii) sustainable land	practices on: i) climate- and ecosystem-smart watershed	implemented to collect and disseminate knowledge and best	Output 3.1.2: A communication strategy developed and		
			project and program design.	strategies of women and men and the implications for future	 Document lessons learned on the experiences and coping 	women to prepare for the adverse effects of climate change.	 Develop a gender strategy to strengthen the adaptive capacity of 	gender aspects associated with climate change.	Update and extend the portfolio of training modules to include	interventions.	project results, including the benefits of adaptation	 Collate and synthesise lessons learned and best practices from 	National Steering Committee and Project Technical Committee.	 Facilitate community consultations with policy-makers, the 		programs for farmers on lessons learned and best practices.	Organise local-level awareness-raising campaigns and training
2020	2019						2020	2000	2019					2020	2019		
5,000				•	7,500	1 1 3 3					•	4,000	•		,		• •
5,000	7,500		7,500						1						1		
10,000	7,500	17,500	15,000						1	4,000				-	2,000		•

RESTORING DEGRADED FOREST LANDSCAPES AND PROMOTING COMMUNITY-BASED, SUSTAINABLE AND INTEGRATED NATURAL RESOURCE MANAGEMENT IN THE RORA HABAB PLATEAU, ERITREA.

							Rora Habab Plateau, Eritrea.
5,736,401	1,046,125	1,046,125 1,046,125 1,046,125 1,046,125	1,046,125	1,046,125	775,951 775,950	775,951	Restoring Degraded Forest Landscapes and Promoting Community- Based, Sustainable and Integrated Natural Resource Management in the
			<u></u>				NORTHERN RED SEA REGION
	Qŧr	유	옩	Qŧr	Qtr	욘	
(vs\$)	4 th	S _{ra}	2 nd	151	4th	3rd	Lindson Harrie
Total Amount		t (US\$)	Amount (US\$)		t (US\$)	Amount (US\$)	Droject name
2019+2020		20	2020		19	2019	

Funded projects by activities (Source of fund: UNDP/GEF)

	Agrae Tahat
5,736,401	11 Mimhidar kebabis/33 villages: Baqla, Maret, Endlal, Laba, Mo'o (La'el), Ketema Nakfa 01, Ketema Nakfa 02, Beyan, Apollo, Agrae-Lael,
	Watershed conservation/Catchment treatment Nakfa/Rora Habab Plateau/covering the whole sub-zoba Nakfa:
(US\$)	
Total (2019+2020)	Project/Activity

Biennial Work Plan

Period - 2019-2020

SPCF Outcome(s):

impacts of ecosystem degradation, climate change, and strengthening community resilience to disasters. By 2021, environmental and natural resources management is gender responsive, and sustainable, negating the

Expected CP Outcome(s):

By 2021, environmental and natural resources management is gender responsive, and sustainable, negating impacts of ecosystem degradation, climate change, and strengthening community resilience to disasters)

Expected Output (s):

Improved livelihood of rural communities through sustainable ecosystem management

Implementing Partner:

Ministry of National Development and Ministry of Local Government

Brief Description

practices in Sub-Zoba Nafka of the Northern Red Sea Region of Eritrea Project Objective: To mainstream sustainable land management, forestry and biodiversity conservation into land-use planning and agricultural production

Evaluation as the greatest challenges to sustainable development in Eritrea? therefore a major concern. The loss of biodiversity, coupled with climate change and desertification, have consequently been identified in a recent GEF Country Portfolio medicines and income-generating activates, as well as building materials for the majority of poor rural households. Conserving biodiversity and its sustainable use are 30-year war that ended in 1991. Biodiversity is critical to the livelihoods of the majority of the Eritrean people. Both wild plant and animal products are sources of fodder, Eritrea is endowed with a variety of natural resources that have been declining as a result of human and natural disasters, including drought, deforestation and a prolonged

management-related concerns, including strengthening the capacity for forest tree restoration and reduction of forest deterioration foresty loss and watershed degradation. It also directly addresses a specific recommendation of the GEF Country Portfolio Evaluation - to address sustainable forest The proposed GEF-financed project addresses a number of these environmental challenges, in particular ecosystem degradation, including land and soil degradation,

Management Arrangements:	Project End Date	Project Start date:	Atlas Award ID:	Key Result Area (Strategic Plan):	Programme Period:
MIN	June 2023	June 2019		Mobilizing environmental financing	48 months

2019 & 2020 Total allocated resources: US\$ 5,736,401

2019 Total allocation: US\$ 1,551,901

UNDP Track: GEF fund: US\$1,551,901

2020 Total allocation: US\$ 4,184,500

UNDP Track:

GEF fund:

Government: In kind:

Office space and utilities

Technical experts at national and district levels

2019-2020 Biennial Workplan: Restoring Degraded Forest Landscapes and Promoting Community-Based, Sustainable and Integrated Natural Resource Management in the Rora Habab Plateau, Northern Red Sea Region

			HE D RESERVE.	the Elekahir	increase water availability and	Output 2.1.1: Interventions to			4	to reduce land degradation and pr	integrated watershed managemen	OUTCOME 3. Enhanced resilience			restoration planning and implementation.	and conservation of forest and wildlife species into landscape	instruments conducted to promote/incorporate sustainable use	Output 1.1.1: Technical review and updates of existing legal		Outcome 1.2: Integrated decision-support tools to support multi-secosystem restoration planning, implementation and monitoring.	III Over 60,000 Ha III Hie Nania 300-2040	Outcome 1: Institutional capaci		Fiden Outeniel Output		
2.1.1.5. Train community	2.1.1.4. Establish tree nu		reduce overgrazing and i	2.1.1.3. Develop commun	and harvesting of rain and flood water	2.1.1.2. Establish water c	increase the functioning	locations for the impleme	2.1.1.1. Undertake site in	essure on forests and i	it in over 80.000 hectare	f ecosystems and liveli			ion.	species into landscape	orporate sustainable use	lates of existing legal		upport tools to support r	2000	ity and enabling frame		מני	7:147:14	
2.1.1.5. Train community members on tree management.	2.1.1.4. Establish tree nurseries in Endial, Laba, Bakla and Nakia		reduce overgrazing and improve productivity of rangelands.	2.1.1.3. Develop community-level livestock and rangeland management systems to		2.1.1.2. Establish water conservation infrastructure (grey and green) for the control	conservation measures, including watershed restoration to capture water and increase the functioning of existing ponds and wadis.	locations for the implementation of integrated water management, soil and water	2.1.1.1. Undertake site investigations and hydrological analyses of potential			Outcome 1. Enhanced resilience of ecosystems and livelihoods through landscape regeneration and	rangelands and agricultural systems.	subplans focusing on watersheds, forestry, wildlife,	plan for the Rora Habab Plateau, including detailed	1.1.2.1. Develop an integrated landscape management	Resource Management (INRM) approaches.	apply best practices when designing integrated Natural	1.1.1.2. Provide training and capacity building of	Outcome 1.2: Integrated decision-support tools to support multi-stakeholder participation in landscape and ecosystem restoration planning, implementation and monitoring.		Outcome 1: Institutional capacity and enabling framework for integrated landscape management			Activities description	
2019	2020	2019	2020	2019	2020	2019		2020	2019	2020	2019				2020	2019		2020	2019		2020	2019	:			Year
•	100,000	· · · · ·	5,000	'	250,000	-	,	•	-	2,077,250	•			1	-			5,000			5,000	ŧ		1st & 2'nd	allocation	Quarterly budget
	100,000		5,000	1	250,000	50,000	10,000	,	,	2,054,750	1,541,401		15,000	; ; ; ;		,	5,000		1.		20,000	1		3rd & 4th	ition	budget
י מר	200,000		10,000		500,000	50,000	10,000		ı	4,132,000	1,541,401	5,673,401	15,00	,		,	10,00		•		25,000		25,000	(\$)	Amount	Total

12,500	7,500	5,000	2020			
5,500	5,500		2019		:t Management	Monitoring and Evaluation & Project Management
18,000						
5,000	5,000	:				
		1		interventions.		
			2020	learned and best practices from project		iegonany ana gwaany.
1	1	-	2019	3.1.1.5. Collate and synthesise lessons	יוחאינים פנים הבסני הנשברורבס מושובה	regionally and plobally with Nowledge and pest practices stated
10,000	5,000	7		practices.	ic awareness-raising and education	Output 3.1.1: Communication, public awareness-raising and education
		5.000		farmers on lessons learned and best		
			2020	raising campaigns and training programs for		
5,000	5,000	•	2019	3.1.1.2. Organise local-level awareness-		
				Outcome 3.1 Increased knowledge sharing and awareness at Zoba, sub-Zoba, Kebabi and community levels on integrated landscape management, including SLM, SFM, biodiversity conservation and water resource management.	Outcome 3.1 Increased knowledge sharing and awareness at Zoba, sub-Zoba, Kebabi and community level landscape management, including SLM, SFM, biodiversity conservation and water resource management.	Outcome 3.1 increased knowledge sharlandscape management, including SLM
15,000	10,000	5,000	2020			
5,000	5,000	1	2019		ent and awareness raising	Outcome 3: Knowledge management and awareness raising
20,000						
50,000	25,000	25,000	2020	er 8 % - et inciente stoxes for lase of illoaset iotas.	5.1.4.4 Subbour the brochieffer or energy-christic stokes for ase	and Carissa edulis.
1			2019		2 1 A) Support the procurement of one	African juniper (Juniperus procera)
10,000	5,000	5,000	2020	communities.	Habab Plateau and surrounding areas/communities.	europaea sub-species Africana), East
-		-	2019	2.1.4.3. Establish a joint forest resource management network within the Rora	2.1.4.3. Establish a joint forest resource	including the African Wild Olive (Olea
10,000	5,000	5,000	2020		sustainable use of woodlots and trees.	drought-resistant tree species,
,	ı	•	2019	2.1.4.2. Train community members and extension staff on the management and	2.1.4.2. Train community members and	regeneration of indigenous and
2,182,000	1,074,750	1,107,250	2020	technical standards and guidelines.	technical standards and guidelines.	forest enclosures expanded through planting and assisted natural
1,491,401	1,491,401	-	2019	the company of the property of the contract of	2 1 A 1 Bostoro forest consustant thro	Output 2.1.4: Community-managed
10,000	5,000	5,000	2020			

Fully funded 2019/2020 Soil and Water Conservation and Sustainable Ecosystem Management Projects

Annex1:

				A	gric	ultu	re											Sector
		Deb	ub									i	Vla'	eke	1			Zoba
	Dbarwa	Dudiwa	Nienderera	CHIHICH	Chaire 3	Emphall	Dekelillare	Dekembare	Segizeneiti	O Dah	Serejeka	Serejeka	Serejeka	Serejeka	serejeka	perejeka	Caralaka	Sub-zob
Debub total	Mimhidar kebabis/82 villages: Temajlia, Adibezehanes, Amadr, Deki-tsun'a, Ade-bizaghe, Adi-kubulio, Elaba, Adi-gebrai, Zawil, Gerteti, Kisad-da'ero, Adi-sherefeto, Shiketi, Azaihe, Adi-felesti, Gula-ahfera, Demb-gu'uf, Adinahbai, Mai-dima, Mai—albo, Adeke-tekula, Adi-logo, Adi-geda, Tera'amni, Talia, Gezalamza, Misiliam, Mereb	Triling also	Adl-adda	Aal-Quoqo	beitemana	Ivia edo	lvia⊢edaga	Adi-netas	Desalleretto	Maekel total	Petros	Adengoda	Azien	Quazein	Guritat	Пауено		Admin Area/Village
	Catchment treatment	Catchment treatment	Masonry check-dam		Terraces construction	Restoration of degraded land (SWC)		Project/Activity										
85.125.000	62,115,000	2,010,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	5,600,010	1,600,000			4,000,000			ERN	Estima
5 675 000	4,141,000	134,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	373,334	106,667			266,667			\$Sn	Estimated Cost

				Ag	ricu	ltur	e	_												<u> </u>
				NRS		•			••					SR	S			Ans	eba	1
		Nakfa	Ghinda'e	Ghinda'e	Ghinda'e	Ghinda'e	Ghinda'e	Shieb	Ghinda'e	Ghinda'e	Ghinda e	Ghinda'e		Debub Dankalia	Ara'eta	Ma'ekel Dankalia		Gheleb	Gheleb	Gheleb
Total Funding 2019/2020	NRS total	All Kebabi Mimhidars/All villages within Nakrasub-zoba: (11 Mimhidar kebabis/33 villages): Baqla, Maret, Endlal, Laba, Mo'o (La'el), Ketema Nakfa 01, Ketema Nakfa 02, Beyan, Apollo, Agrae-Lael, Agrae Tahat	All kebabi mimhidars/villages in Ghinda'e watershed system: Fishey-mirara, Tseret, Nefasit, Mai-habar, Ginda'e, Dengollo, Embatkala, Leaiten, Adishuma	Gahteilai	Hutsit	Embatkala	Dengoio-la'elai	Ad-shuma	Seredom	Demas	Hutsit	Mai-habar	SRS total	Debai-sima	Egroli	Romodda	Anseba total	Gheleb	Gheleb	Gheleb
		Watershed conservation/Catchment treatment Nakfa/Rora Habab Plateau/covering the whole sub-zoba Nakfa:Restoration of degraded forst land	Core PA watershed and biodiversity conservation	Terraces construction	Terraces construction	Terraces construction	Pond construction (Falghenda-Dengolo- la'elai)	Pond construction (Arbebi/Adi-shuma)	Pond construction (Tseret Seredom)	Pond construction (Arbien-Demas)	Pond construction (Hutsit)	Pond (Bahremba-Mai-habar)		Check-dam (Afambo)	Check-dam (Egroli)	Check-dam (Romodda)		Loose Rock Check-dam (Diga Marat)	Loose Rock Check-dam (Diga Wedeg Alf)	Gedim)
206,512,460	129,287,460	86,046,015	20,741,445	1,500,000	1,500,000	1,500,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	9,000,000	3,000,000	3,000,000	3,000,000	9,000,000	3,000,000	3,000,000	3,000,000
15,867,498	8,619,164	5,736,401	1,382,763	100,000	100,000	100,000	200,000	000,000	200,000	200,000	200,000	200,000	600,000	200,000	200,000	200,000	600,000	200,000	200,000	200,000

Annex2: Unfunded/Resource to be mobilized—Soil and Water Conservation Projects

 				··-				·			<i>F</i>	Agri	cult	ure	-1 <u>-</u>				·							Sector
	Debub															Zoba										
	Keren	Hamelmallo	Elaber'ed	Elaber'ed	Elabered	- Another	Asimat	Adrobalezan	Ad-tekelezan	Halhal	Halhal	Halhal	Hamelmallo	Keren	Keren	Keren	Halhal		Train and	Mai-dima	Mai-aini	Adi-quala	Areza	Segheneiti	Tsorena	Sub-zob
Walku	Waller	Alerheh	Elaber'ed	Elaber'ed	habtetsion	Adira fin Dank	rempapo	Devi-zel n	Daki zarti	Enribubat	Mai-awald	Ad-hzhai	Hamelmalio	Keren	Keren	Adirde	Melebso	Deh	Mai-dima	Ma. di	Teklahi	Enda-giorgic	Deki-werasi	Adi-hadida	Dekilafai	Admin Area/Village
Loose rock Check-dam	Loose rock Check-dam	Loose fock Check-dam (Diga-sgalu)	Loss sock Charles and (Diga Ellelebounk)	Loose rock Check-dam (Disa alterated)	Loose rock Check-dam	Loose fock Check-dam	Loose rock Check-dam (Diga Gizgiza)	Louise Tock Check-dam (Diga Dighi)	Loose Tock Check-dain (Diga i inkulehas)	Loose rook Check dall	Looke rook Charle down	Loose rock Check-dam	Dehub total	3 Masonry Check-dams	Soll and water conservation	Soil allo water conservation	Coll and Check-dam	Maconia de la designation de la constanta de l	Masonin chack dam	Masony check-dam	Project/Activity					
3 000 000	3,000,000	3,000,000	3.000,000		3.000.000	3,000,000	3.000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	2 000 000	18 277 770	4,500,000	2,946,360	3,000,000	3,000,000	3,000,000	1,851,560	EXN	Estima
	200,000	200,000	200,000	100,000	200 000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1.210,313	1 710 212	300,000	196,424	200,000	200,000	200,000	122,091	USS	Estimated Cost

						(Gasl	h-B	arl	ta							NR	s	5	sr:	s						
		Gogne	Forto	i interest	Haikota	Sel'a	Gulij	Mogollo	OltoBold	Magalla	Malki	Barentu	Mensura	Gulij	Michalia	Maneura		Ghinda'e		Dankalia	Debub		Hamelmalio	Habero		Asmat	Asmat
Total unfunded/Resource to be mobilized	Gas	Guchi	10110		Hashenkit	Rikeb	Dereisa	Mogolio		Terkina	Tsibuk-girat	Kerkasha	Tinshi'ai	Мепдина	Management	Gulla	N	Be'areza			Alalie	.Ans	Kebabi-aibaba	Навето		Asmat	Teferjia/Wanki
	Gash-Barka total	Diversion canal maintenance (Guchi)	Diversion canal maintenance (Ashamus)	Diversion canal maintenance (Ashadda)	Diversion canal maintenance (Hashenkit)	Diversion canal maintenance (Kentertal)	Diversion canal mannenance (concern)	Liviation contract (Dereica)	Principle Card maintenance (Barhatar)	Diversion canal maintenance (Adrugyay)	Masonry Check-dain (Tsibuk-girat)	Masonry Check-dam ((a) Ruba-Terkib)	Check-dam (Hamoiguse)	INIOSOILY CITED TO STATE OF THE	Masomry Check-dam (Mengulla)	Check-dam (Gulla)	NRS total	15 Masonary check-dams)	SRS total		Check-dam (ma'ebele)	Anseba total	Loose rock Check-dam	Tsaeda)	Loose rock Check-dam (Diga Habero-	Wegreit)	Loose rock Check-dain
173,858,830	47,581,110	4,800,000	1 965 020	4,529,583	4,538,750	3,700,700	050 200 5	4 727.580	4,529,582	4,287,930	3,800,000	3,002,049	2000	3.644.836	2,743,168	2,865,032	45,000,000	15,000,000	45 000 000	3,000,000	3,000,000	05,000,000		_	3,000,000	1_	
11,550,585	_	2 177 074	75. 76.	301,972	302,383	200,777	765 797	315,172	301,972	285,862	253,333	204,177	204 177	242,989	182,878	700,161	2400000000	2 0001 000	3.000.000	200,000	200,000	4 (1)	Han unc F	200 000	200,000	200,000	3