

UNDP/Tonga R2R Annual Work Plan – Tonga COUNTRY PROGRAM Annual Work Plan 2016

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On behalf of Implementing Partner

Department of Environment

On behalf of United Nations Development Program - Multi-Country Office

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Integrated Environmental Management of the Fangauta Lagoon Catchment - TONGA AWP for 2016

AGENCY OUTPUT 2016 or BIENNIMUM EXPECTED RESULT	PLANNED ACTIVITIES	TIMEFRAME				IMPLEMENTER (government or NGO partner)	PLANNED BUDGET		
		Q1	Q2	Q3	Q4		Source of Funds	Budget Description	Amount
<p>5 YEAR OUTPUT: To conserve the ecosystem services of the Fangauta Lagoon and Catchment (FLC) through an integrated land, water and coastal management approach thereby protecting livelihoods and food production and enhancing climate resilience</p> <p>Planned Indicators</p> <ul style="list-style-type: none"> Status of completion and implementation of the FLC IEM Plan <p>Target Indicators FLC IEM Plan has been formulated by Year 2, accepted and implemented in Year 3, to recognize and promote the conservation and adaptive management of the ecosystem services of the FLC</p>	<p>Integrated Environmental Management of the Fangauta Lagoon Catchment - TONGA</p> <p>Component 1: Appropriate Governance of Fangauta Lagoon Catchment Areas and Integrated Management of Lagoon Ecosystems</p>					Government of Tonga, Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications (MEIDECC), Department of Environment, Project Implementing Unit (PMU)	GEF		

<p>Outcome 1.1: Multi-stakeholder management system established to guide the updating of the EMP FLS and implementation of the FLC Integrated Environmental Management Plan (IEMP)</p> <p>Planned Indicators</p> <ul style="list-style-type: none"> • Functional enabling environments for conservation and integrated management of the Fanga'uta Lagoon Catchment (FLC) <p>Target Indicators</p> <ul style="list-style-type: none"> • By Year 3 the feasibility of conversion of a FLC Management Committee into a National Committee with a statutory mandate has been assessed and implemented as appropriate 							<p>71300- National Consultant</p> <p>71600 - Travel</p> <p>72300 – Materials and Goods</p> <p>74200-Audio & Printing</p> <p>74500 - Misc</p> <p>75700- Training</p>	<p>5,167</p> <p>10,000</p> <p>1,000</p> <p>700</p> <p>8,000</p> <p>26,226</p>
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<p>Output 1.1.1 - Capacity of NECC and FLC Stakeholders enhanced to more effectively plan and implement an integrated lagoon ecosystem management approaches</p>	<p>d) Assess local training needs annually e) Develop training courses and materials on Integrated Environmental Management (IEM): Conduct trainings</p>	✓	✓	✓	✓				
<p>Planned indicators Status of a multi-stakeholder FLC management authority with dedicated staff and sufficient budget</p>	<p>g) Formulate a draft statutory mandate of a “Tonga Interagency Council on FLC” to be assessed by Year 3 and adopted before end of the project</p>	✓	✓	✓	✓				
<p>2016 Target Indicator: 100% of the work completed: a) 5 contact points from government are implementing IEMP concept for FLC and are working towards developing its policy and legislation; b) Plans for setting up a draft statutory mandate for Fangaula lagoon is discussed and implemented;</p>									

<p>Output 1.1.2- Measures delivered to fully engage the Fanga'uta Lagoon Catchment (FLC) communities in lagoon ecosystem management</p> <p>Planned Indicators:</p> <ul style="list-style-type: none"> • Number of FLC villages and concerned entities involved in EMP updating and implementation • Number of individuals and/or organizations engaged in design and implementation of mini-projects from Outcome 2 <p>1. 2016 Target: 50% FLC villages and concerned entities have participated in EMP updating and implementation of mini projects (1 stakeholder consultative meeting on project planning and designing - MIA, District and community; 2 mini-project set-up training; 2 mini-project set-up)</p>	<p>c) Develop a draft strategy for community action, approaches and functions</p> <p>d) Sponsor and organize bi-annual lagoon and catchment NGO and stakeholders forums</p> <p>e) Undertaken demonstrations (or mini-projects) in FLC areas</p> <p>f) Establish a FLC community-based research and knowledge management centre to generate lagoon community action and positive social change through the use of multiple knowledge sources and networks</p>	✓	✓	✓	✓		Subtotal Activity Result for Outcome 1.1	51,093
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<p>Outcome 1.2: Participatory updating of the Fanga'uta Lagoon Catchment IEMP completed, adopted, endorsed and budgeted for</p> <p>Planned Indicators:</p> <ul style="list-style-type: none"> • Amendments to the environmental management plan of the Fanga'uta Lagoon Catchment <p>Target:</p> <ul style="list-style-type: none"> • By mid-term, the existing EMP FLS has been updated incorporating IEM concepts and adaptive management approaches. • By Year 3, updates/amendments to EMP FLS have been approved and adopted • By the end of the project, the concerned authorities will institutionalize integrated ecosystem management and conservation objective for the FLC within the national development system. 				<p>Government of Tonga, Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications (MEIDECC), Department of Environment, Project Implementing Unit (PMU)</p>	<p>GEF</p>	<p>71200-International Consultant 71300-National Consultant - 71600 - Travel 72100 - Service Contract - 72300 - Materials & Goods 74200- Audiovisual and Printing 74500 - Mics</p>	<p>0 22,408 0 60,000 800 300 0</p>
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<p>Output 1.2.1 - FLC IEMP prepared and completed; establishing technical, biophysical, oceanographic, socioeconomic and demographic baselines; updating the EMP completed in 2001 with additional parameters to be established</p> <p>Planned Indicators:</p> <ul style="list-style-type: none"> • Amendments to the environmental management plan of the Fanga'uta Lagoon Catchment <p>2016 Targets:</p> <p>1. Updating on situation analysis of ecosystems degradation and ecosystem services management in FLC completed (100% completed)</p>	<p>c) Link the FLC management initiative to national development planning and programs and the activities of national and local NGOs as well as the private sector</p> <p>d) Evaluate current national policy, legal, institutional and human resource arrangements</p> <p>e) Formulate national and local policy initiatives to facilitate FLC coordination and joint planning</p> <p>f) Compile demographic framework for FLC from published sources</p> <p>g) Establish area-wide patterns of demand; assess opportunity costs of ecosystem services across FLC areas</p> <p>h) Produce working socio-economic framework to integrate demographic and demand characteristics</p> <p>i) Identify environmental hot spots and define environmental system limits and parameters</p> <p>j) Convene expert group meetings on FLC environmental policy, legislation and management and publish the results</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>				
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	<p>l) Draft a detailed FLC IEMP setting strategic functional priorities and fostering multiple uses</p> <p>m) Present the final draft of the FLC IEMP to local and national forum; dissemination of draft report to wider audiences</p> <p>n) Prepare and negotiate an updated EMP FLS (FLC IEMP) on the basis of FLC community and stakeholder consultation</p>		✓	✓				
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<p>Output 1.2.2: FLC IEMP adopted, mainstreamed and funded</p>	<p>a) Prepare and negotiate an updated EMP FLS (FLC IEMP) on the basis of FLC community and stakeholder consultation</p>		✓	✓				
<p>Planned Indicators:</p> <ul style="list-style-type: none"> • Status of FLC IEMP baseline review and findings completed with key parameters described 	<p>b) Clearly delineate responsibilities in implementation of the FLC IEMP across government and other stakeholders</p>		✓	✓				
<p>2016 Targets: 100% of the work completed</p>	<p>c) Solicit commitments from government (national and local levels)</p>		✓	✓				
<p>1. The amended draft FLC IEMP is developed and discussed with key stakeholders (3 consultative meeting conducted- 30%)</p>	<p>d) Develop guidelines on implementing the FLC IEMP (an updated EMP FLS)</p>		✓	✓				
<p>2. Key government stakeholders will start to discuss potential government budget allocated to administration priorities of the FLC IEMP</p>	<p>e) Organize biannual capacity building activities for development policy makers and the wider public on FLC IEMP mainstreaming</p> <p>f) Confirm government's commitments</p> <p>g) Major agency-donor conference to discuss the final draft of the FLC IEMP and solicit support for implementation</p> <p>h) Consensus on timetable for FLC IEMP implementation</p>		✓	✓				

<p>Output 1.2.3: Multi-stakeholder participatory mechanisms conducted to ensure adaptive management during the preparation, implementation, monitoring and evaluation of FLC IEMP</p>	<p>a) Engage concerned government ministries and statutory authorities in identifying related issues and priorities</p> <p>b) Develop monitoring and evaluation procedures; planning for implementation</p>	✓	✓	✓	✓			
<p>Planned Indicators:</p> <ul style="list-style-type: none"> • Regular monitoring of current status of lagoon environment and ecosystem services through a set of measurable key indicators and a response system established that enables modifying key indicators 	<p>c) Confirm commitments to schedule and allocate resources for timely monitoring and assessment of the status of the Fanga'uta Lagoon and catchment areas</p> <p>d) Identify key monitoring indicators and locations</p>	✓	✓	✓	✓			
<p>2016 Targets: 100% of the work completed</p> <p>1. Monitoring data and information prepared (Annual monitoring reports available; A draft monitoring plan is developed and finalized to track FLC system status and uncertainties including climate change impacts</p>	<p>e) Implement community-based activities to conduct regular monitoring of the status of the Fanga'uta Lagoon and catchment areas</p> <p>f) Produce annual reports on FLC IEMP implementation and progress; communicate M&E results through the FLCMC and project-related meetings</p>	✓	✓	✓	✓			
							Subtotal Activity Result – Outcome 1.2	83,508

<p>Outcome 2.1: Improved conditions of critical lagoon habitats, productivity, water quality and fish production through the implementation of priority interventions identified in the IEMP</p> <p>Planned Indicators:</p> <ul style="list-style-type: none"> • Status of surrounding habitats and ecosystem services in the Fanga'uta Lagoon <p>Target Indicators:</p> <ul style="list-style-type: none"> • By project end, key habitats (mangroves) and ecosystem services in FLC improved compared to baseline level 				<p>Government of Tonga, Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications (MEDECC), Department of Environment, Project Implementing Unit (PMU)</p>	<p>GEF</p>	<p>71200- International Consultant 71300- Local Consultant 71600 - Travel 72300 - Materials and Goods 72400 - Communications and Audio visual 75700 - Training</p>	<p>20,000 80,735 20,800 390,000 2,000 37,000</p>
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<p>Output 2.1.1 Areas of approximately 80 ha of the lagoon's major coastal habitats (mangroves stands) restored</p> <p>Planned Indicator</p> <ul style="list-style-type: none"> • Area of mangroves in FI. <p>2016 Indicator: 100% of the work completed</p> <p>50 ha (63%) of mangroves and other biodiversity resources remained stable, protected areas conserved and managed mainly for sustainable use of natural ecosystems</p>	<p>b) Develop monitoring and evaluation procedures</p> <p>c) Identify key mangrove conservation hot spots and necessary actions to rehabilitate and maintain conditions</p> <p>e) Organize biannual on-site trainings for ecological mangrove rehabilitation</p> <p>f) Sponsor and organize community-based mangrove restoration programs involving local youth and women in raising mangrove saplings and maintaining the mangrove nursery</p> <p>g) Evaluate the results and define limits of sustainable use in space and time</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>											
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<p>Output 2.1.2: Mechanisms set up to facilitate participatory fishing area and sustainable fisheries resources management by the FLC communities</p>	<p>a) Review of current status of supply of and demand for fisheries resources in the lagoon through participatory survey and assessment</p>	✓	✓				
<p>Planned Indicators:</p> <ul style="list-style-type: none"> • Status of lagoon fisheries (as contributing to increased fish harvests, improved livelihoods, and healthy lagoon ecosystems) 	<p>b) Review of existing legal frameworks that govern fisheries activities in the lagoon; consolidate expert opinions on sustainable fisheries management in FL</p>	✓	✓				
<p>2016 Targets:</p> <p>20% of the total area within the lagoon is identified and delineated for fisheries conservation and sustainable fisheries management (to be determined during expert implementation) through expert assessment and consultative process</p>	<p>c) Organize technical workshops and consultative meetings to be participated by concerned government agencies and local communities aiming to define and identify managed areas for fish conservation and sustainable utilization</p>	✓	✓				
	<p>d) Evaluate the results and define limits of sustainable use in space and time</p>			✓			

<p>Output 2.1.3: Eco-tourism awareness to FLC community conducted and local initiatives demonstrated</p> <p>Planned Indicators:</p> <ul style="list-style-type: none"> • Status of eco-tourism activities in FLC <p>2015 Targets</p> <ul style="list-style-type: none"> • At least 1 proposals to promote eco-tourism in FLC have been received from local tourism service providers At least 60 women and 60 youth have been engaged in eco-tourism activities 	<p>a) Prepare a detailed report on the participatory FLC eco-tourism program development strategy and implementation plan</p> <p>b) Identify and execute demonstration and pilot projects to promote eco-tourism in FLC involving experienced tour organizers, local entrepreneurs and community association</p> <p>c) Organize and/or sponsor trainings, workshops, and awareness campaigns for engaging FLC communities in sustainable eco-tourism, focusing on female villagers and youth living in the FLC areas</p> <p>d) Evaluate the results and define limits of sustainable eco-tourism business practices</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>				
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<p>Output 2.1.4: Activities based on sustainable land and forest management demonstrated in the FL catchment areas</p> <p>Planned Indicators: Areas with improved vegetation in the lagoon catchment</p> <p>2015 Targets: A total areas of 30 ha with improved vegetation cover in the FLC areas have been established or replanted</p> <ul style="list-style-type: none"> • 2 biannual trainings on sustainable land management practices conducted and reported with at least a total of 60 participants attended 	<p>b) Organize an annual campaign to plant trees and raise public awareness and soil conservation</p> <p>c) Conduct biannual trainings on sustainable land management practices to minimize pollution loadings into the lagoon targeting villagers and landowners living in the lagoon watershed areas</p> <p>d) Evaluate the results and define limits of sustainable land management practices in space, method and time</p>		✓	✓				
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<p>Output 2.1.5: Capacity for Fanga'uta Lagoon water quality control strengthened and on-site activities demonstrated</p> <p>Planned Indicators:</p> <ul style="list-style-type: none"> Measures to control pollution discharged from domestic and other sources adopted and enforced <p>2016 Targets:</p> <ul style="list-style-type: none"> A set of recommendations for improvement of water quality in the lagoon have been prepared and submitted for FLC IEMP Course content on sanitation improvement and related technical knowledge targeting FLC communities identified and discussion for development with at least 1 training carried out <p>At least one on-site demonstration/pilot activity identified and plans for implementation initiated</p>	<p>a) Review the current situation on the nature and extent of agricultural chemical fertilizer/pesticide usage and urban wastewater discharge (including domestic, commercial and industrial sources) in the FLC areas</p> <p>b) Select a methodology for identifying the nature and extent of pollution discharged into the Fanga'uta Lagoon, and issue scoping</p> <p>c) Analyze historical water quality monitoring data relative to prevailing environmental conditions to identify links between off-site movement of pollution and factors such as: vegetation cover (height and density of trees); landscape (soil, slopes, buffer strips); climatic conditions (rainfall events, soil dryness index); and methods of chemical pesticide/fertilizer application (broad-acre, point, aerial, ground based) as well as waste disposal from point sources and non-point sources; define information and data gaps</p> <p>d) Identify appropriate technologies and systems for controlling pollution from domestic sources in FLC areas</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>												
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	e) Identify and execute demonstration and pilot projects to minimize impacts of domestic sources of pollution in target FLC villages	√	√	√	√			
	f) Organize on-site trainings and workshops on sanitation improvement and related technical knowledge targeting key FLC communities		√	√				
	g) Conduct a detailed review and evaluation of the use existing legal and institutional instruments for control of water quality in the lagoon; identify key compliance issues and constraints; and recommend appropriate ways to mitigating the existing and potential impacts of non-compliance	√	√					
	h) Organize annual trainings for key concerned decision-makers and community leaders as well as other stakeholders on land-use zoning/planning			√				
	i) Evaluate the results and define limits of sustainable land development in FLC			√				
	Subtotal Activity Result for 2.1							550,535

<p>Outcome 3.1: Increased awareness and appreciation of the ecosystem services of the Fanga'uta Lagoon</p> <p>Planned Indicators:</p> <ul style="list-style-type: none"> • Increase awareness of the significance of FL management across multiple stakeholders <p>Targets Indicators:</p> <ul style="list-style-type: none"> • Production of a series of selected awareness and communication materials, which have been disseminated in all relevant Agencies associated with the NECCC as well as in all lagoon villages and the nearby areas of Tongatapu 				<p>Government of Tonga, Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications (MEDECC), Department of Environment, Project Implementing Unit (PMU)</p>	<p>GEF</p>	<p>71300 - Local Consultant</p> <p>72100 - Supplies</p> <p>75700 Training</p>	<p>3,300</p> <p>12,500</p> <p>2,300</p>
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<p>Output 3.1.1: Awareness programs conducted through the production and dissemination of awareness materials; lessons learned shared with the PICs through the regional program support project</p>	<p>a) Consolidate the network of key stakeholders in assessing the production and distribution of FLC awareness materials</p> <p>b) Commission stakeholder surveys and interviews to define needs and gap</p> <p>c) Design key substances created for the FLC awareness and communication purposes</p> <p>d) Select and produce effective awareness and communication materials</p> <p>e) Publish and disseminate HEM and FLC IEMP information and communication materials</p> <p>f) Establish, update and improve web access</p> <p>g) Create public awareness and ecosystem services education campaigns</p> <p>h) Evaluate periodically the results and identify remaining needs and gaps</p>	✓	✓	✓	✓		Subtotal Activity Result 3.1	18,100
<p>2016 Target Indicators:</p> <p>1. Communication Strategy Plan and products developed</p> <p>2. Production of a series of selected awareness and communication materials, which have been disseminated in all relevant Agencies associated with the NECCC as well as in all lagoon villages and the nearby areas of Tongatapu</p>								

<p>Outcome 5.0: Project Management Project management</p>	<p>Activity Result 5.0 Project Management (PMU)</p> <ul style="list-style-type: none"> • Quarterly reports • Annual technical monitoring report • Meetings of Project Steering Committee • Meetings of Thematic Working Groups • Executive Board Meeting 	✓	✓	✓	✓	<p>Government of Tonga, Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications (MEIDECC), Department of Environment, Project Implementing Unit (PMU)</p>	GEF	<p>71300 - Local Consultant</p> <p>72500 - Supplies</p> <p>74500 - Cost Recovery</p>	<p>14,000</p> <p>900</p> <p>3,226</p>
<p>2016 Indicators for Planned Activity</p> <ul style="list-style-type: none"> • Narrative quarter reports • Financial & TPR Report <p>Target Indicator</p> <ul style="list-style-type: none"> • Conduct effective management oversight, monitoring and evaluation 		✓	✓	✓	✓				
								<p>Sub-total Activity Result 4.0</p>	18,126
								<p>Total</p>	721,362