NIWRA: Monitoring and Evaluation Plan

Annex I

Strategic Objective--Establish A Financially Sustainable National Integrated Water Resources Management Authority

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Input	Activity	Indicator	Output	Outcome	Impact
Phase I					
Budget subvention from Government NIVVRA Act	Establish NIWRA Administration	Relevant staff from DOE, PUC MoH and Hydrology Unit Move to NIWRA Administrative Staff hired	NIWRA is staffed	NIWRA is functioning and coordinating water manage efficient water ment	More effective and efficient water management
Budget subvention from Government	Establish NIWRA Board		Head and BOD are in place		
		Review NIWRA Act and propose statutory and/ or additional legal instruments required to establish BOD			
		Identify stakeholders to serve on NIWRA BOD		2	
	Establish Advisory Board	Identify and appoint technical experts from water sector			
Budget subvention from Government	Initiate Public Awareness Campaign	As apart of establishing the Administration hire a PR officer		ā	Consumers and Business Users Understand
		Contract a seasoned marketing expert	Report Prepared and Finalized	its importance in Belize	rnat water is a scarce resource that has to be managed.
Budget subvention from Government	Undertake an inventory of national water assets and their condition	Contract an expert	Report on Inventory is completed	NIWRA is positioned to make proposals based on current assets	Clear base upon which to assess potential yields alternative pricing reforms
Budget subvention from Government	Inventory of water sector stakeholders. use and access to water, payment	Contract a consultant to prepare inventory and Report on inventory is engage in consultations with stakeholders completed		NIWRA is positioned to make proposals based	Identification of large users and application of the 3
	for water and pollution of water			on use and access and practices	principles of sustainable financing
Budget subvention from Government	Establish National Water Resources Management Master Plan (MWRMMP) and	NIWRA staff and consultants	NWRMMP is prepared and finalized	Plan in place for guiding NIWRA in water resources	Coordination of water resources
				L	management in Belize
External Financing and counterpart funds	Introduce scholarship program for building Belize's technical capacity in water resources management.	Candidates for Scholarships Identified for 2-4 candidates	Scholarships Awarded for 2 and 4 year programs	Technical experts come on stream in 2-4 years.	NIWRA has strengthened technical capacity
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Annex I (Continued)

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Input	Activity	Indicator	Output	Outcome	Impact
Phase II					
*Water Resource Master Plan and relevant	Initiate second phase of consultations with water sector stakeholders on	Public Consultations advertised and scheduled Report indicating proposals Consensus among in all Districts completed on schedule for measures and the policy makers on	Report indicating proposals for measures and the		Raise stakeholder awareness and possibly "buy in"
legislation in place *GOB budget financing secured *Public Awareness	proposed pricing reforms within articulated time frame		potential yields as well as scenario analysis and stakeholders' views.	desirable approaches and changes	to generate non budget Financing channels created for meeting water quality and conservation goals.
campaign in full force *Inventories Completed					
ult-	process	onal		ing for	Non budget financing
ations completed GOB budget financing secured	and fees for water abstraction	services to negotiate and draft legislation	greed and	NIWRA increases	generated to achieve water quality and conservation goals.
*Public Awareness		onal	Legislation agreed		Align contribution from
*Consultations with stake holders completed	collaboration with BTB and PACT	services to liegonate and diant registation		rom tourism to PAs/ water resource management	with revenue generated and other benefits from PAs.
	legislation for onitoring fee and registration fee	Contract legal and other relevant professional services to negotiate and draft legislation	Legislation agreed	RA's	Water quality monitoring is more systematic and
*Consultations with stake holders completed	tor wells			role in monitoring water quality	broad based. Water quality is improved and pollution
al financing	Launch water management pilot	Participating Village Water Board(s)	'n		Contribution to villages
*Counterpart financing	9	consultant to design pilot	and reported	management	the benefits from water
*Stakeholder consult-	ter pricing in collaboration	*Pricing reforms agreed with public stakeholder Pricing reform based on		Households differentiated	*Pricing is aligned with
ations completed *Public Awareness	with BWS and PUC.	*Revenue yields and sharing agreed *Contract legal and other relevant professional	principles for sustainable financing is legislated	from commercial and agricultural users	usage,, conservation and water quality goals
campaign is producing results					*Financing potentially available for capital
*Inventories completed					investment.
*Fee and pricing reform measures slotted for	Initiate plan for establishment of a national lab.	Contract experts	Report outlining characteristics and	Water quality lab established within NIWRA	Water quality improved and societal well being
are in place and vields			costs and phasing of a new lab"from		enhanced.
consistent with projections			scratch"		
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Annex I (Continued)

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Phase III					
Technical assistance and Financing from	Finance mobilization for National Lab	Estimate requirements for equipment technical assistance from UN. WB. WHO. EU.	Report providing financial baseline for a lab	Lab established	Credible assessments of water quality are
G					conducted in a timely
			3		and ongoing manner.
External source	Introduce abstraction license in hotel sector	Fee agreed and legislation prepared and	License fee established	Fee structure implemented NIWRA's financial	NIWRA's financial
Identification in Phase I and II of users	and for water bottlers	implemented	Formal notification to stakeholders of policy		position is strengthened.
Consultation with	Prepare the ground work for assessing	Contract financial expert to assess the	Report	Realistic goal with	Greater financial flexibility
PACT	the feasibility of external bond instrument	feasibility of bond issues		respect to this goal based	for NIWRA and potential
	for generating investment in the water sector for	21		cial	to finance capital invest-
	water resource management			NIWRA's track record	ment in water manage-
Pricing reforms in Phase	Initiate the process of accreditation for	Contract financial expert to assess the	Report which assesses	Development of an	Over the long run NIWRA's
II in place	NIWRA as a fiduciary manager for water	feasibility of a debt swap.		additional financing	financial sustainability
	resource management	Collaborate with PACT	recommendations for path forward	tool.	would be enhanced.
Tracking of water use	Finalize and prepare for implementation	Document prepared, negotiated and agreed	Agreement signed and	Differential charges	Water conservation
Completion of consult- actions with stakeholders	of differential charges for water use and revenue sharing agreement with	with relevant GOB authorities and approved by relevant GOD bodies	implementation initiated	paid by residential vs.	Improved water quality
and successful pilots		Relevant legislation prepared or amended.	New statutory instrument	users reflecting use	
			or legal amendments	and clean up.	
Policy Reforms in	Assess the feasibility of establishing a clean	Contract a consultant to look at practices of	Constancy Report	Feasibility of Debt Swap	Potentially enhances
Phase I are implemented	water trust fund potentially financed with debt swaps	other countries including Ecuador and Costa	Finalized	for Belize is assessed.	NIWRA's resources while reducing GOP external
					debt
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