

ToR for monitoring and review of four IWRM Pilot Projects implemented under GIZ TWM Phase III.



Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Transboundary Water Management in SADC Programme (GIZ TWM)

Terms of Reference:

For a Consulting Contract

Review of IWRM Pilot Projects

Date: 07.11.2017

Timeframe: December 2017 . March 2018

Scope: 30 expert days

Financed and contracted by:

Transboundary Water Management in SADC Programme

Project Number: 15.2076.6-008.00

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)

Gaborone, BOTSWANA.

1. Introduction

The GIZ TWM project supports the implementation of SADC's Regional Strategic Action Plan for Water (2016-2020) with co-financing from DFID. Within its *Output C* the project endeavours to ensure that "Conditions for increasing climate resilience at beneficiary level are improved". The aim of Output C is to disseminate lessons learnt and products and tools developed as well as capacitate stakeholders to use the products and tools for replication and/or up-scaling.

The GIZ TWM project implemented IWRM Pilot projects in its earlier phase in Phase III of the project. The project believes that sufficient time has now elapsed to allow for an evaluation of the performance of those IWRM pilots since installations were completed. Thus, to ensure that the lessons learned in operating and maintaining the IWRM Pilots is not lost, the GIZ TWM, together with SADC, is calling for the services of a Consultant to carry out a rapid assessment of the performance of the IWRM Pilots from the time they were commissioned to date.

2. Background

During the third phase of the SADC Regional Strategic Action Plan (RSAP III) the GIZ-TWM Project, through the consulting firm Rodeco and funding from GIZ acting on behalf of the Governments of Germany, Australia and the UK, implemented four IWRM Pilot Projects under the Project Component titled "PILOT PROJECTS FOR THE SCALING-UP OF IWRM IN TRANSBOUNDARY RIVER BASINS IN SOUTHERN AFRICA".

The pilot projects are located in Botswana (Bokspits), Lesotho (Ralintzi . Hermon), Mozambique (Cocane in the Gaza Province) and Namibia (Mariental Town). A summary of the projects and their status at closure is presented below.

LOCATION	SCOPE & ACTIVITIES UNDERTAKEN	STATUS AT CLOSURE
Orange-Senqu Basin, Kgalagadi District, South Kgalagadi Sub-District, Bokspits, BOTSWANA	The pilot sought to promote the adoption of both household level and communal low cost water harvesting technologies and conservation techniques in an arid rural setting. <i>Works</i> <ul style="list-style-type: none"> Supply of Rainwater Harvesting Units for 132 households. Supply and installation of 30 Household Horticulture Production Units Supply and installation of improvements to 110 existing Pit Latrines. Supply and installation of 3 community boreholes, c/w tanks and pipework. Rehabilitation of Rainwater Pond. Prosopis trees clearing and de-stumping in the river valley and along main water pipelines. <i>Support activities</i> <ul style="list-style-type: none"> Capacity building of community and local institutions. 	All works and supporting works were concluded. In addition the Department of Water Affairs (DWA) committed to monitor water usage and conduct on-going education & awareness on the usage of the facilities installed facilities as well as continuously monitor the water quality and water levels in the Bokspits village. NB: The Bokspits IWRM pilot project was considered the biggest rainwater harvesting project in the country.
Orange-Senqu Basin, Mafeteng District, Ralintzi-Hermon, LESOTHO	The pilot sought to control environmental degradation, monitor water resources utilisation, promote innovative and advanced water use technologies, provide new sanitation services as well as rehabilitate and restore water supply and sanitation services in poor rural communities. <i>Works</i> <ul style="list-style-type: none"> Supply and installation of solar pumping equipment, rehabilitation and laying of water pipelines (including installation of water tap units) and rehabilitation and construction of water storage tanks in the piped water supply system. Construction of 175 dry pit latrines in 	Most of the works were completed, save for a few household toilets. The government of Lesotho had plans to up-scale the newly implemented IWRM innovations.

LOCATION	SCOPE & ACTIVITIES UNDERTAKEN	STATUS AT CLOSURE
	<p>Hermon and Nkalimeng villages.</p> <ul style="list-style-type: none"> • Supply and installation of Hydrometric Station on the Mohlakeng River • Supply and installation of Irrigation equipment and greenhouses (2 No.) for small scale communal drip irrigation system in Nkalimeng village. • Supply and installation of gabions for rangeland management and erosion control. <p><i>Support activities</i></p> <ul style="list-style-type: none"> • Stakeholder capacity building. 	
<p>Limpopo Basin, Gaza Province, Chibuto District, Maqueze Locality, Cocane, MOZAMBIQUE</p>	<p>The project focus was water harvesting for human & animal consumption as well as productive use for remote rural communities based on community management structures.</p> <p><i>Works</i></p> <p>Siting, design and construction of off-river storm water storage reservoir and ancillary works being; intake structure, water well, water treatment unit, cattle drinking trough, ablution block (with disability friendly sanitation facilities), erosion control measures, fencing, flood protection, bund and community garden.</p> <p><i>Support activities</i></p> <ul style="list-style-type: none"> • establishment of community management committees (water resources management, O&M, Hygiene, Environment & CC, Agriculture and livestock) • Stakeholder capacity building. 	<p>The completed works were still to be tested as project came to an before the advent of the rainy season.</p> <p>Community level structures were established (with the aim to ensure the sustainability of the IWRM project).</p> <p>The relevant government institutions (district & provincial levels) committed to provide back stopping support to local committees.</p> <p>NB: The need for SADC to follow up on the pending experiences was also pointed out so that the lessons learnt from use of the infrastructures were well captured.</p>
<p>Orange Senqu Basin, Hardap Region, Mariental, NAMIBIA</p>	<p>The pilot sought to demonstrate the feasibility of adopting a multi-faceted water demand management (WDM) initiative in an arid urban environment. The pilot focused on the promotion of water saving measures at public institutions and the household level coupled with income generation, knowledge transfer and awareness raising.</p> <p><i>Activities:</i></p> <ul style="list-style-type: none"> • Rainwater harvesting for six Mariental schools buildings involved in the backyard gardening initiative • Demonstration of small-scale hydroponics at three Mariental Schools • Demonstration of water saving WC dual-flush systems, taps and shower heads; fitting newly build houses, retrofitting of existing houses and public buildings. • Identify options (treatment) allowing use of waste water for irrigation; including costs, designs, financing options • Awareness water savings and management campaign 	<p>All works were 99% complete and plans to finalise few remaining works are in place.</p> <p>Capacity building and training on IWRM, Water conservation, hydroponics & aquaponics, rainwater harvesting, backyard gardening, gender mainstreaming were carried out during the project with a high level of success.</p> <p>NB:</p> <p>The need to continue with follow up trainings, and education and awareness sessions was emphasised.</p>

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3. Goal and objectives of the IWRM Pilots

The goal of the IWRM Pilot projects was to contribute to regional integration and sustainable development in Southern Africa through the application of integrated water resources management (IWRM). The overall objective was to demonstrate the benefits of IWRM to promote peace and security, reduce poverty and improve climate resilience (starting at the local scale).

The specific objectives can be summarised as:

- The replication of IWRM initiatives is supported at the national and regional level.
- The results of the lesson learned & best practices captured during the implementation of the pilots are shared with stakeholders at all levels.
- Best practices and lessons learned from demonstration activities on the implementation of IWRM at the community level to enhance knowledge and capacity are captured.
- IWRM approaches, promoted by SADC in the RSAP III and the CC adaption strategy, are tested at the local level.

The pilots were implemented using participatory processes which took into account different users, sought to improve local livelihoods as well as empower and capacitate the local communities and water utilities to better cope with climate change. The increase in local water storage and improved efficiency in water use were taken as key criteria in improving the climate change resilience of involved communities.

4. Purpose of the assignment

The purpose of this assignment is to assess and evaluate the extent to which the IWRM Pilot objectives were met, particularly how the communities and key stakeholders have been able to sustain the installations and activities initiated by the IWRM Pilots Project. The assignment should clearly document the lessons learnt. These lessons will assist SADC and its member states in up-scaling the IWRM concepts and practices observed from implementation of the IWRM Pilots.

5. Scope of the assignment

The assignment will entail discussions with IWRM Project proponents at SADC and within the GIZ TWM, responsible ministry officials, provincial and local governments and agencies and stakeholders in the host member states as well as visits to the sites to observe installations and interact with project beneficiaries.

6. Assignment objectives

The assignment seeks to address the following objectives:

- (1) To develop an understanding of the performance of the IWRM Pilots in relation to the stated objectives of the pilots at their onset.
- (2) To develop an understanding of the operational state and condition of installed infrastructure.
- (3) To appreciate governance (policy, legal & institutional) issues that affected the operation and maintenance of the IWRM Pilots as well as ownership by beneficiaries.
- (4) To identify the critical success and failure factors that affected the performance of the IWRM Pilots.
- (5) To identify the critical lessons that can aid the replication and/or upscaling of the whole or selected aspects of each assessed IWRM Pilot.

7. Tasks to be undertaken

The tasks for the assignment will include:

1. Review all available project documentation pertaining to the IWRM pilots including but not limited to:
 - planning reports,
 - design and procurement documents and

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- monitoring reports
- 2. Visit and discuss with national level stakeholders mandated with the operations, use and maintenance of the project installations. These will include but will not be limited to:
 - Government departments responsible for community water management
 - Provincial and district level government agencies responsible for local level projects in water.
- 3. Visit and undertake a rapid inspection and assessment of the installations in the field for all four pilots.
- 4. Discuss with local authorities and the community members their experiences with the installations, being operational difficulties or any other challenges related to sustainable use of such.
- 5. Engage with SADC and GIZ TWM to collect additional information and discuss sustainability issues, lessons learned and possible replication and/or upscaling opportunities for the IWRM Pilots.
- 6. Based on the information gathered and consultations with key stakeholders, prepare a Lessons Learned Report for the IWRM Pilots highlighting key observations and making practical and implementable recommendations on replication and upscaling by:
 - Member states
 - SADC and
 - GIZ as well as other international cooperating partners with an interest in IWRM.
- 7. Prepare a concept paper on the Lessons Learned in implementing IWRM Pilot projects for use by SADC and GIZ TWM.

8. Deliverables

The following key deliverables are expected:

- a. An inception report TWO weeks after contract signature.
- b. Four individual summary reports for each pilot project FIVE weeks after submission of the Inception Report.
- c. A consolidated Lesson Learned Report for all IWRM Pilot projects TWO weeks after submission of the individual summary reports.
- d. A learning paper on IWRM Pilots replication and upscaling in SADC minimum TWO weeks after submission of approved final report.

9. Special considerations

- a. Gender Mainstreaming & Capacity Development: For each IWRM Pilot, special attention should be paid to the social transformation that resulted in implementing the projects. Specifically, an assessment of whether gender issues were adequately addressed in implementing the pilots is required. A Gender responsive checklist will be provided by GIZ TWM to assist in this regard, but the relevant insights should not be limited to this tool. Equally, evidence of capacity building at all levels is to be interrogated.
- b. Documents to be provided by GIZ: The GIZ TWM will provide all documentation on the projects. All other supporting documentation should be obtained from the key stakeholders in the pilot projects.
- c. List of persons to be interviewed: The GIZ TWM will provide a tentative list of resource persons for each pilot project but the consultant is expected to widen his/her consultations as necessary.
- d. Reporting: The consultant will report to the GIZ TWM at all times during the assignment.

10. Staff requirements

The Consultant will assume full responsibility for the overall preparation, coordination and management of the study, as well as the submission of the final deliverables.

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The Consultant is expected to be a water development and IWRM expert satisfying all of the following requirements:

- a. At least 5 years experience in integrated water resources management, with special bias towards small scale pilot projects.
- b. At least 5 years experience in water supply and sanitation systems operation and maintenance especially for remote rural communities.
- c. Demonstrate adequate appreciation of the management of community level water, sanitation and health related projects.
- d. A strong background in monitoring and evaluation of community based water supply and sanitation projects.
- e. Demonstrable knowledge of environmental and social impact assessment (ESIA) skills.
- f. Knowledge and skills in the analysis of information management and institutional arrangements in WASH and IWRM projects.
- g. Knowledge of aid delivery mechanisms.
- h. Excellent skills in data collection, analysis and report writing in English, as well as some ability to conduct conversations in local languages.
- i. Excellent report writing skills in English.
- j. Minimum of 3 years working experience in the SADC Region.

11. Duration and location of assignment

The assignment is expected to cover 30 expert days between December 2017 and March 2018, with up to THREE missions to Gaborone for discussions with the GIZ TWM and SADC team as well as travel to the pilot host countries with at least 1 visit per IWRM pilot site in each pilot host country.

12. Funding of the assignment

GIZ TWM which is supporting SADC will finance all activities related to the assignment. Funding will cover consultant costs, all logistical support and any costs associated with engagement of key stakeholders in the member states.

Per diem/daily allowance will be paid according to the GIZ standard rates for the respective country. Flights to host countries, accommodation therein and visits to pilot sites are to be organised and paid by the consultant and will be reimbursed upon presentation of acceptable evidence. Where applicable, a project vehicle will be provided by GIZ TWM in SADC Programme.