

# Environmental and Social Monitoring Report

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July - December, 2014

## Kiribati: South Tarawa Sanitation Improvement Sector Project

Prepared by Ministry of Public Works and Utilities, Government of Kiribati for the Asian Development Bank

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**Government of Kiribati**  
Ministry of Public Works & Utilities



**Semi Annual Safeguards Monitoring Report**  
**Period: July to December 2014**



*Grant-0263 KIR: South Tarawa Sanitation Improvement Sector  
Project  
G1 Project Management and Implementation, Community  
Engagement and Capacity Development Activities*

SMEC International  
in Association with Brisbane City Enterprises, SKM and ThEcoCare  
February 2015

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## Abbreviations and Acronyms

<b>ADB</b>	Asian Development Bank
<b>ADF</b>	Asian Development Fund
<b>AFS</b>	Audited financial statement
<b>APs</b>	Affected persons
<b>AMAK</b>	Aia Maea Ainen Kiribati (Kiribati Women's Association)
<b>AUD</b>	Australian Dollar
<b>Ausaid</b>	Australian Agency for International Development
<b>Beka</b>	I-Kiribati verb and noun for faeces/shit
<b>BM&amp;E</b>	Benefit Monitoring and Evaluation
<b>BoQ</b>	Bills of Quantities
<b>BTC</b>	Betio Town Council
<b>CDT</b>	Capacity Development Training
<b>CE</b>	Community Engagement
<b>CLTS</b>	Community-led total sanitation
<b>CQS</b>	Consultant qualification selection
<b>DMF</b>	Design and monitoring framework
<b>DTL</b>	Deputy Team Leader
<b>EA</b>	Executing agency (MFED)
<b>EARF</b>	Environmental assessment and review framework
<b>EIA</b>	Environmental impact assessment
<b>EM&amp;A</b>	Environmental monitoring and auditing
<b>EMP</b>	Environmental management plan
<b>EPANET</b>	Free software provided by the US Environmental Protection Agency for water system analysis
<b>FA</b>	Force Account
<b>FGD</b>	Focus Group Discussion
<b>FMS</b>	Financial Management System
<b>FS</b>	Feasibility Study
<b>GACAP</b>	Governance and anticorruption action plan
<b>GAD</b>	Gender and Development
<b>GAP</b>	Gender action plan
<b>IA</b>	Implementing agency (MPWU)
<b>IC</b>	Inspection certificate / International Consultants/ in charge (as appropriate to context)
<b>ICB</b>	International competitive bidding
<b>IEC</b>	Information, education and communication
<b>IEE</b>	Initial environmental examination
<b>IFV</b>	Imprest Fund Vouchers
<b>KANGO</b>	Kiribati Association of NGOs
<b>KAP III</b>	Kiribati Adaption Project – Phase III
<b>KHA</b>	Kiribati Housing Authority
<b>KIT</b>	Kiribati Institute of Technology
<b>M&amp;E</b>	Mechanical and Electrical/ monitoring and evaluation (as appropriate to context)
<b>maneaba</b>	Open air meeting place
<b>MELAD</b>	Ministry of Environment, Lands and Agricultural Development
<b>MFED</b>	Ministry of Finance and Economic Development (ex MLED)
<b>MHMS</b>	Ministry of Health and Medical Services
<b>MISA</b>	Ministry of Internal and Social Affairs
<b>MPWU</b>	Ministry of Public Works and Utilities
<b>MS</b>	Microsoft
<b>MTC</b>	Marine Training Centre
<b>NGO</b>	Non-government organization
<b>NIWA</b>	New Zealand Institute of Water and Atmosphere

<b>NZ</b>	New Zealand
<b>NZHC</b>	New Zealand High commission
<b>OD</b>	Open defecation - defecation without a toilet into bush, fields or bodies of water
<b>O&amp;M</b>	Operations and maintenance
<b>ORS</b>	Oral rehydration salts
<b>PAI</b>	Project administration instruction
<b>PAM</b>	Project administration manual
<b>PAUS</b>	Pacific Urban, Social Development and Public Management Division
<b>PCF</b>	Petty Cash Fund
<b>PHAST</b>	Public Health and Sanitation Transformation (WHO/Program in 1990's in Africa)
<b>PIAC</b>	Pacific Infrastructure Advisory Centre
<b>PIU</b>	Project implementation unit
<b>PMO</b>	Project Management Office (in MFED)
<b>PPMS</b>	Project performance monitoring system
<b>PPTA</b>	Project preparatory technical assistance (PPTA 7359 relates)
<b>PRA</b>	Participative rural appraisal
<b>PS</b>	Pumping station
<b>PUB</b>	Public Utilities Board
<b>QBS</b>	Quality-based selection
<b>QCBS</b>	Quality and cost-based selection
<b>RF</b>	Resettlement framework
<b>RP</b>	Resettlement plan
<b>RRP</b>	Report and recommendation of the President to the Board
<b>SAPHE</b>	Sanitation, Public Health and Environment Improvement Project
<b>SC</b>	Steering Committee
<b>SCADA</b>	Supervisory Control And Data Acquisition (system)
<b>SCGMs</b>	Gender Community Mobilizers
<b>SMF</b>	Sanitation Maintenance Fund
<b>SOE</b>	Statement of Expenditure
<b>SOPAC</b>	Applied Geoscience and Technology Division of Secretariat of the Pacific Community
<b>SPRSS</b>	summary poverty reduction and social strategy
<b>SPS</b>	Safeguard Policy Statement
<b>SSS</b>	Single Source Selection
<b>STSISP</b>	South Tarawa Sanitation Improvement Sector Project
<b>TA</b>	Technical Assistance
<b>Temaiku</b>	Place in South Tarawa (near the airport)
<b>TNA</b>	Training Needs Assessment
<b>TOR</b>	Terms of Reference
<b>ToT</b>	Training of Trainers
<b>TUC</b>	Teinainano Urban Council
<b><i>unimwane</i></b>	Male village elders

## Executive Summary

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This is a semiannual safeguard monitoring report covering the period from July 2014 to December 2014. The purpose of this Safeguards Monitoring Report (SMR) is to document the environmental management activities and compliance with the approved EMP for the second six months of 2014. The report is for the The South Tarawa Sanitation Improvement Sector Project, (STSISP) and reports on activities for the period associated with the project.

Since no construction work has commenced the report covers sub project status for the following:

- ICB 01 Rehabilitation of Sewerage and Saltwater Systems Betio, Bairiki and Bikenibeu;
- ICB 02 Upgrading of Ocean Outfalls at Betio, Bairiki and Bikenibeu; and,
- Candidate project, On-Site Sanitation Project.

### History January 2014 to June 2014

ICB 01: The BEIA has been prepared and submitted in June to MELAD, together with the On Site Sanitation BEIA. ICB 02: the bids for ICB 02 was cancelled as recommended in the conclusion of the Bid Evaluation Report submitted to MPWU June 2014.

#### ICB 01

All pre construction requirements as defined in the EMP have been implemented. The BEIA was deemed to be Satisfactory June 2014 (24/06/2014), post the submission to MELAD. From 4 July a series of six newspaper adverts (in two papers), thirty (30) individual radio announcement between two stations, and 5 poster advertisements were carried out advertising both the locations where the ICB 01 BEIA could be viewed by the public seven locations, and announcing the series of eight public consultations with the public in Betio, Bairiki and Bikenibeu. The Eight corresponding workshops were successfully held.

The Environmental License ELA 143 / 12 for the works associated with ICB 01 was issued to MPWU by MELAD, on 15 August 2014

The Bid validity form Bidder 1 & 2 was extended to July 2014 and then a further extension to 31 August 2014. In July 2014 negotiations with Bidder 2, CCB Envico Pty Ltd were held. On 13 August 2014, a letter of Acceptance was issued to CCB Envico Pty Ltd from the MPWU. A contract for the ICB 01 Rehabilitation of Sewerage and Saltwater Systems Betio, Bairiki and Bikenibeu was signed between CCB Envico Pty Ltd and MPWU was signed on 31 August 2014.

Re settlement for PS6 and PS1 Bikenibeu continue. PS6 & PS 1 (Bikenibeu) Owners have agreed to a “letter of understanding” (OAG). Ownership of PS 1 is under a court (Lands) case.

On 15 December 2014 MPWU communicated the Notice to commence the Works to CCB Envico which coincided with the access to the Site.

#### ICB 02

The Bid for ICB 02, Upgrading of Ocean Outfalls at Betio, Bairiki and Bikenibeu, (HDD) was cancelled 20 August 2014. Following a submission of a variation order (VO5) in September 2014, in association of the investigation and design for the ICB 02 Upgrading of Ocean Outfalls at Betio, Bairiki and Bikenibeu “Over the Reef” ICB 02 “OTR”. No- Objection 16 October 2014 was furnished and preliminary work commenced on planning and preparation of a TOR and section of a Diving Investigation contract, aimed to commence January 2015.

#### On site Sanitation Candidate Sub Project.

The On Site sanitation BEIA submitted and deemed to be satisfactory by MELAD June 2014. An Environmental Licence EI 149/12 was issued 28 August 2014





# 1 Introduction

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## 1.1 Report Purpose and Rationale

This is a semi-annual safeguard monitoring report covering the period from July 2014 and December 2014. The purpose of this Safeguards Monitoring Report (SMR) is to document the environmental management activities and compliance with the approved EMP for the second six months of 2014. This report is prepared in accordance with the environmental monitoring program as defined by ADB. This, the second SMR, will only cover the progress of the Capacity Development Component of the project as well as the planning or preconstruction period of the project to upgrade the sewerage system of South Tarawa. In line with targets defined in the approved (by ADB and Kiribati (GoK) BEIA's (ADB IEE) environmental management plan (EMP) this report will emphasize: (i) progress made in implementing the EMP's , mitigation measures, and monitoring actions and presents a record of the level of compliance with safeguard measures and any corrective actions taken.

## 1.2 The Project

The South Tarawa Sanitation Improvement Sector Project, (STSISP) was developed initially through an ADB Project Preparatory Technical Assistance (PPTA) contract with the consultant Fraser Thomas. Using the PPTA's information as a base the STSISP loan project was developed. In June 2012, SMEC won the contract with MPWU to undertake Project Management and Implementation, Community Engagement and Capacity Development Activities associated with the project.

The scope of the Project comprises of five parts:

- Part A: Sanitation and Hygiene Practices:
- Part B: Collection Treatment and Disposal of Wastewater:
- Part C: Capacity Development of MPWU and PUB
- Part D: Sanitation Maintenance Fund
- Part E: Project Management and Implementation

### 1) Part A: Sanitation and Hygiene Practices

Design and implementation of: (a) a community awareness, education and participation program to enhance the understanding of the close links among health, hygiene, water use and sanitation practices; and (b) a media campaign to disseminate essential information relating to sanitation and hygiene practices.

### 2) Part B: Collection, Treatment and Disposal of Wastewater

- a) Rehabilitation of the existing sewerage systems in Bairiki, Betio and Bikenibeu, including procurement of sludge digester for septic tank effluent treatment, sewerage and septic tank cleaning equipment;
- b) Upgrading of works on 3 sewerage outfalls;
- c) Testing and installation of on-site sanitation equipment in 30 households
- d) Selection and implementation of other Subprojects outlined in Kiribati's Water Supply and Sanitation Roadmap and Investment Plan 2010-2030.

### 3) Part C: Capacity Development of MPWU and PUB

Design and implementation of an administrative and technical capacity development program within MPWU and the Public Utilities Board (PUB) to plan and manage water and sanitation services.

### 4) Part D: Sanitation Maintenance Fund

Establishment of a sanitation maintenance fund within the MPWU for the maintenance of sanitation and sewerage infrastructure in South Tarawa.

## **5) Part E: Project Management and Implementation**

Via a competitive bidding process, SMEC Int'l. was awarded the supervision/management, contract to oversee the implement of the project. A second and parallel task was to help establish and support the Project Management Unit within MPWU with direct responsibility to implement the work, under SMEC's guidance.

The project is funded by the Australian Government, the Asian Development Bank, and the Government of Kiribati, through different financial mechanisms. The Implementing agency is MPWU, and the Executing Agency is MFED.

### **1.3 The ESR**

Since no construction work has commenced and only the Sanitation Hygiene, Sanitation Maintenance Fund formulation components have commenced, this Semi-annual Monitoring Report will report on following five work areas:

- Rehabilitation of Sewerage and Saltwater Systems Betio, Bairiki and Bikenibeu, referred International Competitive Bidding contract ( ICB 01 (PartA))
- Betio, Bairiki and Bikenibeu, referred International Competitive Bidding contract ( ICB 01 (Part B))
- Upgrading of Ocean Outfalls at Betio, Bairiki and Bikenibeu or ICB 02 ( Part B):
- On-Site Sanitation Pilot Subproject ( Part B);.
- Sanitation and Hygiene Practices Capacity Building (Part A); and
- Establishment of the Sanitation Maintenance Fund ( Part D)

### **1.4 The Safeguards Monitoring Team**

In the submission by SMEC, international environmental and social safeguards specialists were named and assigned the task of implementing environmental and social safeguard requirements of the project. They were to be assisted by national counterparts. This system has been in place since early 2013 and at present the environmental safeguards work is led by Mr. Geza Teleki, Environment Specialist (international) and Mr. Iannang Teaoro Safeguards Officer (National). The Social Monitoring is being led by Mr. Madhusudan Hanumappa Resettlement Specialist (international) with the national safeguards officer. To date the majority of field time has been provided by Mr. Teaoro.

## 2 Subprojects and Their Status

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There are two main sub projects and one candidate project that are foreseen to have social or environmental impacts. These are as follows:

- ICB 01 Rehabilitation of Sewerage and Saltwater Systems Betio, Bairiki and Bikenibeu;
- ICB 02 Upgrading of Ocean Outfalls at Betio, Bairiki and Bikenibeu (HDD); and,
- Candidate project, On-Site Sanitation Project.

### 2.1 ICB 01

ICB 01 involves the rehabilitation of the existing sewerage system in Betio, Bairiki and Bikenibeu. The works will include cleaning and rehabilitation of the manholes, sewer runs, pump stations, replacing pumps, electrical control and power equipment associated with sewage collection. In addition the rehabilitation of the salt water flushing system forms a further part of the project. The system will generally adopt saltwater to flush the system. The saltwater will be conveyed from saltwater towers along pipes under gravity to the discharge points. The project includes the rehabilitation of the valves, fire hydrants, pipes and associated plant. Further included in the basic environmental Impact assessment (BEIA) associated with ICB 01 is the sludge digester facility proposed to be located on the causeway (Anderson Causeway) adjacent to the South Tarawa land fill site<sup>1</sup>.

The Bids for ICB 01 were opened in January 2014, following a Bid Evaluation process one Bidder was identified to continue negotiations with MPWU. This was CCB Envico Pty Ltd from Australia. Negotiations occurred in Early June 2014. In order to secure approval to enter into a contract with CCB Envico several requirements were needed to be met including being awarded an Environmental License from MELAD and updating the resettlement Action Plan (RAP).

The Environmental License ELA 143 / 12 for the works associated with ICB 01 was issued to MPWU by MELAD, on 15 August 2014. This followed the satisfactory completion of: from 4 July a series of six newspaper adverts (in two papers), thirty (30) individual radio announcement between two stations, and 5 poster advertisements were carried out advertising both the locations where the ICB 01 BEIA could be viewed by the public seven locations, and announcing the series of eight public consultations with the public in Betio, Bairiki and Bikenibeu. The Eight corresponding workshops were successfully held. (See Annex 1 for details).

The Bid validity form Bidder 1 & 2 was extended to July 2014 and then a further extension to 31 August 2014. In July 2014 negotiations with Bidder 2, CCB Envico Pty Ltd were held. On 13 August 2014, a letter of Acceptance was issued to CCB Envico Pty Ltd from the MPWU. A contract for the ICB 01 Rehabilitation of Sewerage and Saltwater Systems Betio, Bairiki and Bikenibeu was signed between CCB Envico Pty Ltd and MPWU was signed on 31 August 2014.

Re settlement for PS6 and PS1 Bikenibeu continue. PS6 & PS 1 (Bikenibeu) Owners have agreed to a “letter of understanding” (OAG). Ownership of PS 1 is under a court (Lands) case.

On 15 December 2014 MPWU communicated the Notice to commence the Works to CCB Envico which coincided with the access to the Site.

### 2.2 ICB 02

ICB 02 involves the upgrading of three Ocean Outfalls at Betio, Bairiki and Bikenibeu. The original design was based on a Horizontal Directional Drilling (HDD) approach, but the bids for ICB 02, received in June 2014, were cancelled following ADB “no-objection” 16 October 2014. Following this, in alignment with the Variation Order (VO 5) submitted and accepted in Q4 2014 for the investigation and design for the ICB 02 Upgrading of Ocean Outfalls at Betio, Bairiki and Bikenibeu “Over the Reef” ICB 02 “OTR”. Preliminary work commenced on planning and preparation of a TOR and selection of a Diving Investigation contractor, aimed to commence January 2015. As a part of the ICB 02 project, investigation by divers addressing the alignment to be considered for an over-the reef placement of outfalls is required, and a letter/ request for the use of the services of Fellenius & Hess Marine Surveyors to carry out the survey, 3 December 2014 was prepared. MPWU issued a letter 15 December 2014, with no objection to the engagement of Fellenius & Hess Marine for the diving survey January 2015

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<sup>1</sup> This contract does not include the planning and installation of the three ocean discharges, as this work is presently being planned, and a separate environmental assessment and environmental management plan will be completed.

## 2.3 Candidate Subproject: On-Site Sanitation:

This subproject was identified during the project preparation technical assistance phase of the South Tarawa Sanitation Improvement Sector Project (STSISP) 2009-11. It was planned as a long term sustainable approach for the low density settlement or rural areas of South Tarawa given the current high level of health problems that are directly associated with unhealthy sanitary practices and the vulnerable limited ground water (freshwater lenses) source

This subproject has been designed to:

- test a range of on-site sanitation systems installed on private property outside of the municipal sewer and water service areas of South Tarawa;
- evaluate and monitor each system's operating and maintenance requirements;
- define ways to manage any toxic, hazardous or contaminated wastes; and,
- record cultural and social acceptability of each system.

The groundwater quality at 15 of the 28 to 29 trial installations will be monitored before the systems are installed to establish existing conditions and monitored for three years after installation to track impacts. The results of this performance assessment will be utilized in the formulation of a national guideline for on-site sanitation, with a view to replicating successful installations at other locations.

Based on the above situation, it is essential that knowledge based on performance of various other on-site sanitation technology options on South Tarawa be documented, such that a range of appropriate, affordable and environmentally acceptable options could be identified and recommended for replication.

The On Site Sanitation Candidate Sub Project's design and Basic Environmental Assessment (BEIA) reporting requirements have been fully completed by MPWU and approved by both ADB and MELAD's ECD. On behalf of MPWU, the consultant prepared the BEIA, which was submitted to MELAD in early 2014 and approved on, 20 June 2014, including a certificate to proceed to implementation. The ADB had indicated that a new financial assistance mechanism outside the Project's present funding formula is being developed.

As of December 2014 the precise agreements and model to implement this sub candidate project has not been finalised

MELAD has furnished MPWU with an Environmental License EI 149/12, issued 28 August 2014, to proceed with this project. The work must be initiated within 1 year of the license date, or a new application has to be filed with ECD.

## 3 Monitoring Activities

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### 3.1 ICB 01 Rehabilitation of Sewerage and Saltwater Systems Betio, Bairiki and Bikenibeu.

#### 3.1.1 Environmental Safeguards (ICB 01)

The environmental assessment for the sewer system and sewage outfall rehabilitation subproject (the Core Subproject) was originally completed in 2011 as an ADB Initial Environmental Examination (IEE). That IEE was approved in 2012 by ADB and the Kiribati's Ministry of Public Works and the Ministry of Finance. However, the Environmental Conservation Division (ECD) of the Ministry of Environment, Agriculture and Land Development (MELAD), which is responsible for all environmental approvals, was not included in the review or approval process.

On learning this, the ADB indicated that ECD needed to provide an approval before the work could proceed. A revised BEIA was submitted April 2014, the review was however put on hold by ECD upon learning that the methodology to be used for constructing the outfalls would likely change significantly. It is a requirement under the Environment Act that all activities and methodologies are fully addressed in the BEIA. ECD advised that BEIA submitted be split and for the sewer system and anaerobic digester component be separated from the sewage outfall works that that the two components be submitted as separate environmental assessment. A revised BEIA addressing the ICB 01 Rehabilitation of Sewerage System and saltwater flushing system at Betio, Bairiki and Bikenibeu was submitted to MELAD on 30 May 2014. On 20 June MELAD informed MPWU that the BEIA submitted for the ICB 01 was found to be Satisfactory and MPWU was informed of requirements for final public disclosure as well as an approval of the BEIA.

The Environmental License ELA 143 / 12 for the works associated with ICB 01 was issued to MPWU by MELAD, on 15 August 2014. This followed the satisfactory completion of: from 4 July a series of six newspaper adverts (in two papers), thirty (30) individual radio announcement between two stations, and 5 poster advertisements were carried out advertising both the locations where the ICB 01 BEIA could be viewed by the public seven locations, and announcing the series of eight public consultations with the public in Betio, Bairiki and Bikenibeu. The Eight corresponding workshops were successfully held (see Annex 1 for complete record of meetings)

On 15 December 2014 MPWU communicated the Notice to commence the Works to CCB Envico which coincided with the access to the Site. Construction activities did not commence during this period. The Works programme was not submitted during this period.

The guideline on mitigation and monitoring for ICB 01 is the BEIA's Environmental Management Plan. It defines mitigative and monitoring actions to be implemented by the proponent during the three stages of the subproject, namely 1) preconstruction, 2) construction and 3) operations. ICB 01 is still in the preconstruction stage and as such the measures defined for this stage are discussed in the following section.

For ease of presentation the approved EMP is reproduced the column entitled comments has been added to indicate the status of each mitigative measure.

### 3.1.2 Environmental Safeguard Mitigative and Monitoring Tasks (ICB 01)

From Table 1. Environmental Management Plan: Environment Monitoring Table (EMoT) of the BEIA for ICB 01: CSE =Construction Supervising Engineer



= fully compliant




= Not applicable at this time






= marginally compliant




= non-compliant

Environmental Issue	Monitoring Details	Timing	Executing Unit	Reporting Responsibility	Update July 2014 to December 2014	Comment
<b>1. Preconstruction Period</b>						
<b>1.1</b> Updated EMP and BEIA not provided to contractor	<b>1.1</b> Confirm with all stakeholders that BEIA documentation has been received on later than 1 month before contractor mobilization	After the contractor has been selected but before mobilization	CSE	CSE	No Action	<p>The Contract documentation which made the contract included four volumes, of which Volume One Referenced the BEIA and Volume four presented the BEIA in Full together with the RAP</p> <p>These documents were presented at contract signing 31 August 2014 after the letter of Acceptance and prior to mobilisation</p> 

Environmental Issue	Monitoring Details	Timing	Executing Unit	Reporting Responsibility	Update July 2014 to December 2014	Comment
<b>1.2</b> Resettlement /Loss or damage to property	<b>1.2</b> Ensure that the scope of work is confined to what has been identified and necessary compensation mechanism are in place	Prior to commencement of work	CSE	CSE	<b>Complete</b>	<p>Pump Station one, Five and Six Bikenibeu are not in Government Leased Land all other are. The GOK has agreed upon an amount for compensation for the owners of the pump stations being \$10,000 for PS 6 and \$10,150 for PS1. (Bikenibeu)</p> <p>PS 6: A letter of intention to accept the compensation and distribute between the owning parties was signed on 28 May 2014. The sum has been distributed to the land owners of PS 6 by the Lands department of MELAD.</p> <p>PS 1: on 26 July all three parties claiming ownership to the land associated with PS 1 had signed a letter of intent prepared by OAG and administered by MELAD Lands. Ownership of PS 1 is under dispute and is currently a subject of the lands court. Three parties lay claim to the PS 1</p> <p>June 2014 the NIDSC informed that PS 5 to be relocated on Government Leased Land.</p> 
<b>1.3</b> Safety hazards to workers and local people, and effects of temporary worker populations in the area	<b>1.3</b> Obtain written confirmation that Occupational Health and Safety measures are included in contract documentation and contractor has signed off.	Prior to commencement of work	CSE	CSE	Action including signing of Contract	<p>The Contract documentation which made the contract included four volumes Occupational Health and Safety Measures are included in the contract and the Contract was signed by the Contractor CCB Envico Pty Ltd and the MPWU on 31 August 2014 . Prior to Commencement of Works 15 December 2014</p> 

Environmental Issue	Monitoring Details	Timing	Executing Unit	Reporting Responsibility	Update July 2014 to December 2014	Comment
<b>1.4</b> Potential risks due to public not well informed on the grievance mechanism and how it is operated	<b>1.4</b> File meeting minutes of public consultation for submission to ADB in semi-annual monitoring report	Prior to commencement of work	CSE	CSE	Semi Complete	<p>From 4 July a series of six newspaper adverts (in two papers), thirty (30) individual radio announcement between two stations, and 5 poster advertisements were carried out advertising both the locations where the ICB 01 BEIA could be viewed by the public seven locations, and announcing the series of eight public consultations with the public in Betio, Bairiki and Bikenibeu. The Eight corresponding workshops were successfully held. This initially informed the public of grievance mechanism and operation in both the Gilbertese (Kiribati language) and English (Australia)</p> <p>The Notification to Commence Works was presented to CCB Pty Ltd on 15 December 2015. A programme of work was not received at this time and as such the works were not physically commenced. The contractor had been informed to programme public consultation in a running programme throughout the duration of the contract to ensure the public will be informed of physical works/activities via public consultation prior to commencement of such works</p> 



Environmental Issue	Monitoring Details	Timing	Executing Unit	Reporting Responsibility	Update July 2014 to December 2014	Comment
<b>1.5</b> Failure to brief and train MPWU and Contractor(s) in EMP implementation	<b>1.5</b> File a written record of the training session provided by CSE for inclusion in the semi-annual report to ADB	Within 3 weeks of commencement of construction	CSE	CSE	No Action	<p>During this period the Contractor was issued a Notice to Commence works. A construction programme was not furnished during this period Construction had not commenced during this period</p> <p>Although not yet scheduled the CSE will deliver a ½ briefing in EMP implementation to the contractor as soon as the contractor mobilizes to S. Tarawa and at least 3 weeks before ground breaking.</p> 
<b>2.0 Construction Period/3.0 Operating Period</b>						
The 8 construction period and 3 operating period mitigative measures have not been listed or discussed here since there has been no action and this subproject has yet						

### 3.1.3 Other Environmental Safeguard Actions Taken

The implementation of environmental safeguards included inserting environmental clauses in bid documents. This was completed, and the following items were added prior the bid documents being released a call for proposals was announced:

The Following documents were issued to the Bidders,

#### **VOLUME 1**

##### **PART 1**

- 1) Signed Contract Agreement,
- 2) General Conditions of Contract  
Appendix = General Conditions of Dispute Board Agreement
- 3) Particular Conditions
  - a Contract Data
  - b Specific Conditions
- 4) Contract Forms

##### **PART II**

Employer's Requirements  
Addenda and Clarifications

##### **PART III**

Priced Bills of Quantities

#### **VOLUME 2**

##### **Contractor's Tender**

- 1) Signed Letter of Bid
- 2) Technical Submission
- 3) Pricing Schedule
- 4) Program of Works
- 5) Minutes of Negotiations
- 6) Contractor's Comments
- 7) Attachment A
- 8) List of Equipment

#### **VOLUME 3**

##### **Tender Drawings**

#### **VOLUME 4**

BEIA – Sewerage system and Anaerobic Digester – ICB01  
Environmental Consultations  
Environmental License  
RAP – Resettlement Action Plan

The Following clauses relate to environmental issues Specifically:

- Volume 1, Part 2, Section 3 Particulars of Contract, Part B Specific Provisions 4.18 Protection of the Environment
- Volume 1, Part 2, Section 3 Particulars of Contract Part B Additional Clauses, 4.25 Safeguards
- Volume 1, Part 2, Section 5 Employers' Requirements. Technical Specification Division One General Specification, Section 1.4 General Requirements and Provisions
- 9 Possession of the site requires under part b, Environmental Management Plan
- 32 INCIDENT Management including Environment
- 34. Environmental
- PART 2: Supplementary Information Regarding Works to be procured
  - Personnel Requirements, Item 6 provision of an Environmental Safeguard Officer

- Part 3
  - Environmental Management Plan. With reference to the EMP and the BEIA

Contract Clause	Specifics as Defined in Contract
Volume 1, Part 2, Section 3 Particulars of Contract, Part B Specific Provisions 4.18 Protection of the Environment	<p>Insert following paragraphs at the end of Sub-Clause 4.18.</p> <p>The Contractor shall comply with all applicable national, provincial, and local environmental laws and regulations.</p> <p>The Contractor shall (a) establish an operational system for managing environmental impacts, (b) carry out all of the monitoring and mitigation measures set forth in the Environmental Management Plan (“EMP”) and (c) allocate the budget required to ensure that such measures are carried out.</p> <p>The Contractor shall execute the contract in accordance with the Environment Management Plan (“EMP”), and Initial Environmental Examination (“IEE”) prepared for the project and ADB’s Safeguard Policy Statement.</p>
Volume 1, Part 2, Section 3 Particulars of Contract Part B Additional Clauses, 4.25 Safeguards	<p>The Contractor shall:</p> <ol style="list-style-type: none"> <li>1. comply with the measures relevant to the contractor set forth in the Initial Environmental Examination (IEE), the Environment Management Plan (EMP), and the Resettlement Plan (RP) (to the extent they concern impacts on affected people during construction), all prepared for the project, and any corrective or preventative actions set forth in a Safeguards Monitoring Report; make available a budget for all such environmental and social measures;</li> <li>2. provide the Borrower with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP and the RP;</li> <li>3. adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and</li> <li>4. Reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</li> </ol>
Volume 1, Part 2, Section 5 Employers’ Requirements. Technical Specification Division One General Specification, Section 1.4 General Requirements and Provisions	
Clause 9 Possession of the site requires under part b, Environmental Management Plan	<p><b>1. POSSESSION OF THE SITE</b></p> <p>Site is available from Date of Letter of Acceptance. However, prior to occupying or carrying out any site activities, the Contractor is required to submit to the Engineer and obtain relevant approvals for the following:</p> <ol style="list-style-type: none"> <li>(a) Quality Assurance Plan</li> <li>(b) Environmental Management Plan</li> <li>(c) Project Safety Plan addressing OHS&amp;R requirements</li> <li>(d) Work Method Statements</li> </ol>

		<ul style="list-style-type: none"> <li>(e) Traffic Management Control Plan</li> <li>(f) Incident Management Plan</li> <li>(g) Detailed Construction Program (if not already submitted according to Clause 8.3 GCC)</li> </ul>
Clause 32 INCIDENT Management including Environment		<p><b>29. INCIDENT MANAGEMENT</b></p> <p>Before commencing any work under the Contract, the Contractor shall provide to the Engineer, and obtain his approval of, an Incident Management Plan which shall deal with issues including:</p> <ul style="list-style-type: none"> <li>(a) A clear statement of accountabilities</li> <li>(b) Identification and analysis of the risks</li> <li>(c) Prevention of incidents</li> <li>(d) Preparedness for incidents</li> <li>(e) Declaration of incidents</li> <li>(f) Early notification of incidents response to and recovery from incidents</li> </ul> <p>The Incident Management Plan shall contain current contact directories including the names and procedures for 24 hour contact with persons nominated by the Contractor to prevent, prepare for, respond to and recover from incidents. The Contractor shall advise the Engineer immediately of any changes in the names of persons so nominated.</p> <p>“Incidents” shall include, but are not limited to, those events causing or with the potential to cause a threat to or impact upon:</p> <ul style="list-style-type: none"> <li>(a) The life, health and safety of any persons</li> <li>(b) The environment</li> <li>(c) Public or private property</li> <li>(d) Interruption to availability and/or quality of services to Employer’s customers</li> <li>(e) The Employer’s property or systems</li> <li>(f) The Employer’s businesses operations including infrastructure, staffing, major suppliers</li> <li>(g) Community infrastructure including electricity, gas, telephone, rail, road, footpaths</li> <li>(h) Prosecution or fines by a regulatory authority</li> <li>(i) Requirements for urgent action under legislation</li> <li>(j) The reputation and/or public image of the Employer</li> <li>(k) Customer expectations (service quality, quantity, duration, damage, social inconvenience)</li> </ul> <p>“Incidents” shall also include an anticipated imminent incident arising from a flood, fire and/or weather warning, terrorist threat, industrial action, potential electrical failure, etc.</p> <p>The contractor shall manage all incidents in a manner which conforms to the requirements or relevant legislation, and the Incident Management Plan to minimize the adverse effects of each incident.</p> <p>The Contractor’s Site Incident Manager shall notify each such</p>

	<p>incident to the Engineer immediately it occurs and manage the incident unless the Employer's Incident Manager takes over the role of Site Incident Manager from the Contractor for that incident. In that event the Contractor shall continue to provide necessary support and assistance to the Employer's Incident Manager in managing the incident.</p>
34. Environmental	<p><b>ENVIRONMENTAL</b></p> <p>The Contractor shall Comply, and make sure that sub-contractors comply, with environmental protection provisions in the Contract which include the requirements of any Republic of Kiribati statute, by-law, and standards related to environmental protection and the Environmental Management Plan (EMP) applying to this Contract. Removal and installation of gallery and collector pipes at the salt water intakes will require excavation works on the beach foreshore and within the intermediate intertidal zone. The Contractor in each case will be required to minimize the damage to the foreshore and intertidal zone outside the immediate vicinity of the works and work in accordance to recommendations made in the EMP for this Contract.</p> <p>It should be noted that the Basic Environmental Impact Assessment (BEIA) is included as part of the bid documents for this contract. One of the requirements for BEIA is that baseline monitoring should be carried out before award of contract. The baseline monitoring includes community and water quality monitoring. The latter is being carried out under the Project (STSISP) and results will be incorporated in the BEIA component of the bid documents at least 2 weeks before bid opening. This information mainly refers to the sewerage outfall dispersion zone.</p> <p>The bidders are advised to carefully consider the EMP requirements when preparing the bid and pricing the items of work. The prescriptions and clauses detailed in the EMP are integral component of the specifications for relevant item of work unless separate items are included in the Bill of Quantities. <u>Thus separate payments will be not be made in respect of compliance with the EMP.</u> In case the contractor or his sub-contractor fails to implement the EMP recommendations after informing in writing, the Engineer will take whatever actions it is deemed necessary to ensure that the EMP is properly implemented and/or to rectify the damages caused by such negligence. Any cost thus incurred will be recovered from the contractor's payments.</p> <p>The Contractor shall assist the Engineer to discharge his duties as required in the EMP implementation by (a) maintaining up to date records on actions taken by the contractor with regard to implementation of EMP recommendations (b) timely submission of reports, information and data, (c) participating in the meetings conveyed by the Engineer and (d) any other assistance requested by the Engineer.</p>
<p>PART 2:Supplementary Information Regarding Works to be procured</p> <p>Personnel Requirements, Item 6 provision of an Environmental Safeguard Officer</p>	<p>PART 2:SUPPLEMENTARY INFORMATION REGARDING WORKS TO BE PROCURED</p> <p>A. Personnel Requirements 10</p> <p>B. Equipment <b>Error! Bookmark not defined.</b></p> <p>A. Personnel Requirements</p> <p>Using Form PER – 1 and PER – 2 in Section 4 (Bidding Forms), the Bidder must demonstrate it has personnel meet the following requirements</p> <p>Environmental Safeguard Officer</p>

<p>Part 3</p> <p>Environmental Management Plan. With reference to the EMP and the BEIA</p>	<p><b>PART 3:ENVIRONMENTAL MANAGEMENT PLAN</b></p> <p>The Contractor will be responsible for the implementation of the EMP as it relates to the construction phase. During construction, the contractor will disclose information to local communities on the location, duration and of construction operations. The contractor will assign a liaison officer at each site, who will be responsible for receiving, and acting on complaints. Consultation meetings will be held every three months at each site to gather feedback and give the opportunity for community members to air any concerns that need to be addressed during construction.</p> <p>Please refer to Basic Environmental Impact Assessment (BEIA) for further details</p>
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### 3.1.4 Social Safeguards

The Resettlement Action Plan originated from the work carried out by the PPTA. This was June 2011. The ICB 01 sub project, includes work on pump stations. All but three pump stations are located in Government Lease Land. The three pump stations that are not in Government Lease Land are all located in Bikenibeu, being Pump Station one, five and six. The pump station five is proposed to be re-located and effectively has been removed from the project, but included as a provisional item. Pump Station six, is owned by three parties. The ownership of Pump Station One is under dispute. There are three parties claiming ownership of this land and currently the case is in the Land Courts.

The OAG developed a “letter of intent”, indicating that the parties signing the letter agreeing to acceptance of the compensation amount as determined by the Cabinet, and to distribute the amount fairly amongst themselves.

The OAG developed a “letter of intent”, indicating that the parties signing the letter agree to adhere to the terms, being acceptance of the compensation amount, as determined by Cabinet, and to distribute the sum fairly amongst the parties.

The three parties that own pump station 6 agreed to accept the amount offered and distribute it as per the Letter of intent and signed the letter 14 May 2014.

All parties (three total) claiming ownership for PS 1 signed the letter of intent on 28 May 2014, 12 June 2014 and 26 July respectively.

The PIU carried out associated Socio Economic surveys with members from the three parties owning PS6 and PS1 Bikenibeu.

This information has been added to the he Social safeguard document that included a Resettlement Action Plan (RAP) that is submitted prior to entering into a contract between a Bidder and MPWU. An updated RAP was submitted and No Objection to proceed with entering into a contract (August 2014) In accordance with this document (version to date) the extent of acquisition and social impacts is minimum. However, the adverse social impacts have been addressed and appropriate compensation will be or has been provided to the affected families. There are no families that are being displaced or relocated from their original place of existence under the project.

Relevant details of the activities on the monitoring of the implementation of the RAP has been provided in the tables below.

Monitoring Indicators – Physical and livelihood Issues						Comments for July to September 2014
Sl. No.	Indicator	Present	Relocated	Post Implementation Scenario	Remarks	
1	Land Acquisition total area – permanent	108 m2	nil	108 m <sup>2</sup>	NA	<ul style="list-style-type: none"> <li>Pump Station 6 Bikenibeu</li> <li>Land Acquisition compensation \$10,000, accepted by 3 parties owning the land and amount disbursed in June 2014</li> <li>Land Acquisition at PS 1 compensation \$10,150. The ownership of the land in question is in dispute by three parties. The Lands Court is currently hearing/considering the case. All parties have signed a letter of intent indicating they will accept the compensation amount and abide by the ruling of the land court.</li> </ul>
a	No. of owners identified	PS 6 Party 1=1 Party 2=1 Party 3=1 PS 1 The ownership is within the Lands Court Party 1=1 Party 2 = 1 Party 3= 5	Nil	Party 1=1 Party 2=1 Party 3=1 PS 1 The ownership is with n the Lands Court Party 1=1 Party 2=1 Party 3=5	NA	<ul style="list-style-type: none"> <li>There are three owners for Pump Station 6</li> <li>The ownership for PS 1 is under dispute and with the land court. Part one has one owner</li> <li>Part two has one owner</li> <li>Party three has five families</li> </ul>
b	No. of owners compensation finalised	PS 6, Three PS 1 Nil	Nil	PS 6 compensation accepted PS 1 waiting for land court Decision	NA	<ul style="list-style-type: none"> <li>PS 6 has received the compensation between the three owning families</li> <li>PS 1 the compensation is earmarked. This awaits the Land Court finding and any such appeals.</li> </ul>
c	No. of owners compensation paid – before civil works initiated	PS 6, Three PS 1 Nil	Nil	PS 6, Three PS 1 Nil	NA	<ul style="list-style-type: none"> <li>NA</li> </ul>
d	No. of owners compensation paid – after civil works initiated	See note	Nil	See Note	NA	<ul style="list-style-type: none"> <li>If the Land Court makes a finding during the construction period commences then it will be resolved at that point of time</li> </ul>
e	Utilisation of the compensation provided – productive purpose (document	NA				<ul style="list-style-type: none"> <li>This will be established and details provided in the June 2015 Report</li> </ul>

Monitoring Indicators – Physical and livelihood Issues						Comments for July to September 2014
Sl. No.	Indicator	Present	Relocated	Post Implementation Scenario	Remarks	
	the purpose)					
f	Utilisation of the compensation provided – unproductive purpose (document the purpose)	NA				<ul style="list-style-type: none"> <li>This will be established and details provided in the June 2015 Report</li> </ul>
2	Land Acquisition total area – Temporary	NA				<ul style="list-style-type: none"> <li>NA</li> </ul>
a	No. of owners identified	PS 6 Party 1=1 Party 2=1 Party 3=1 PS 1 The ownership is within the Lands Court Party 1=1 Party 2 = 1 Party 3= 5	Nil	Construction not started No compensation allocated to any parties	NA	<ul style="list-style-type: none"> <li>The Contractor will use roads and access on some land of which these events have not occurred and hence no compensation allocated</li> </ul> <p>Construction not commenced This information has been added to the he Social safeguard document that included a Resettlement Action Plan (RAP) that is submitted prior to entering into a contract between a Bidder and MPWU. An updated RAP was submitted and No Objection to proceed with entering into a contract (August 2014) In accordance with this document (version to date) the extent of acquisition and social impacts is minimum. However, the adverse social impacts have been addressed and appropriate compensation will be or has been provided to the affected families. There are no families that are being displaced or relocated from their original place of existence under the project.</p>
b	No. of owners compensation finalised	nil	nil	nil	NA	<ul style="list-style-type: none"> <li>No Construction commenced at this time</li> </ul>



Monitoring Indicators – Physical and livelihood Issues							Comments for July to September 2014
Sl. No.	Indicator	Present	Relocated	Post Implementation Scenario	Remarks		
c	No. of owners compensation paid – before civil works initiated	nil	nil	nil	NA		<ul style="list-style-type: none"> <li>No Construction commenced at this time</li> </ul>
d	No. of owners compensation paid – after civil works initiated	nil	nil	nil	NA		<ul style="list-style-type: none"> <li>No Construction commenced at this time</li> </ul>
e	Utilisation of the compensation provided – productive purpose (document the purpose)	NA					<ul style="list-style-type: none"> <li>No Construction commenced at this time</li> </ul>
f	Utilisation of the compensation provided – unproductive purpose (document the purpose)	NA					<ul style="list-style-type: none"> <li>No Construction commenced at this time</li> </ul>
3.	Learning – good practices/bad practices	NA					<ul style="list-style-type: none"> <li>No Construction commenced at this time</li> </ul>

### 3.1.5 Social Safeguard Implementation Progress (ICB 01)

Monitoring Indicators – Physical and livelihood Issues						
Sl. No.	Indicator	Present	Relocated	Post Implementation Scenario	Remarks	Comments for July 2014 to December 2014
1	Land Acquisition total area – permanent	108 m2	nil	108 m2	NA	<ul style="list-style-type: none"> <li>Pump Station 6 Bikenibeu</li> <li>Land Acquisition compensation \$10,000, accepted by 3 parties owning the land and presented to the parties June 2014</li> <li>Land Acquisition at PS 1 compensation \$10,150. The ownership of the land in question is in dispute by three parties. The Lands Court is currently hearing/considering the case. Three / All parties have signed a letter of intent indicating they will accept the compensation amount and to adhere to the findings of the land court.</li> </ul>
a	No. of owners identified	PS 6 Party 1=1 Party 2=1 Party 3=1  PS 1 The ownership is within the Lands Court Party 1=1 Party 2 = 1 Party 3= 5	Nil	Party 1=1 Party 2=1 Party 3=1  PS 1 The ownership is within the Lands Court Party 1=1 Party 2=1 Party 3=5	NA	<ul style="list-style-type: none"> <li>There are three owners for Pump Station 6</li> <li>The ownership for PS 1 is under dispute and with the land court.</li> <li>Part one has one owner</li> <li>Part two has one owner</li> <li>Party three has five families</li> </ul>
b	No. of owners compensation finalised	PS 6, Three PS 1 Nil	Nil	PS 6 compensation accepted  PS 1 waiting for land court	NA	<ul style="list-style-type: none"> <li>PS 6 has received the compensation between the three owning families</li> <li>PS 1 the compensation is allocated and help with in the Government. This awaits the Land Court finding and any such appeals</li> </ul>
c	No. of owners compensation paid – before civil works initiated	PS 6, Three PS 1 Nil	Nil	PS 6, Three PS 1 Nil	NA	<ul style="list-style-type: none"> <li>Pump Station 6 Bikenibeu Compensation paid by Government and distrusted to the three parties</li> <li>Pump Station 1, All three parties have agreed to adhere to the Lands Courts decision. Once this occurs Date unknown</li> </ul>
d	No. of owners compensation paid – after civil works initiated	See note	Nil	See Note	NA	<ul style="list-style-type: none"> <li>If the Land Court makes a finding during the construction period commences then it will be resolved then, if not potentially afterwards</li> </ul>

Monitoring Indicators – Physical and livelihood Issues						
Sl. No.	Indicator	Present	Relocated	Post Implementation Scenario	Remarks	Comments for July 2014 to December 2014
e	Utilisation of the compensation provided – productive purpose (document the purpose)	NA				<ul style="list-style-type: none"> <li>To be established Report June 2015</li> </ul>
f	Utilisation of the compensation provided – unproductive purpose (document the purpose)	NA				<ul style="list-style-type: none"> <li>To be established Report June 2015</li> </ul>
2	Land Acquisition total area – Temporary Use	NA				<ul style="list-style-type: none"> <li>NA</li> </ul>
a	No. of owners identified	PS 6 Party 1=1 Party 2=1 Party 3=1 PS 1 The ownership is within the Lands Court Party 1=1 Party 2 = 1 Party 3= 5	Nil	Construction not started No compensation allocated to any parties	NA	<ul style="list-style-type: none"> <li>The contractor will use the existing roads and access on some land of which these events have not occurred and hence no compensation allocated</li> <li>Construction not commenced at this time</li> </ul>
b	No. of owners compensation finalised	nil	nil	nil	NA	<ul style="list-style-type: none"> <li>Construction not commenced at this time</li> </ul>
c	No. of owners compensation paid – before civil works initiated	nil	nil	nil	NA	<ul style="list-style-type: none"> <li>Construction not commenced at this time</li> </ul>

Monitoring Indicators – Physical and livelihood Issues						
Sl. No.	Indicator	Present	Relocated	Post Implementation Scenario	Remarks	Comments for July 2014 to December 2014
d	No. of owners compensation paid – after civil works initiated	nil	nil	nil	NA	<ul style="list-style-type: none"> <li>Construction not commenced at this time</li> </ul>
e	Utilisation of the compensation provided – productive purpose (document the purpose)	nil	nil	nil	NA	<ul style="list-style-type: none"> <li>Construction not commenced at this time</li> </ul>
f	Utilisation of the compensation provided – unproductive purpose (document the purpose)	nil	nil	nil	NA	<ul style="list-style-type: none"> <li>Construction not commenced at this time</li> </ul>
3.	Learning – good practices/bad practices	nil	nil	nil	NA	<ul style="list-style-type: none"> <li>Construction not commenced at this time</li> </ul>

## 3.2 ICB 02. Design, Construction and Operation of Three new Ocean Sewage Outfalls At Betio, Bairiki and Bikenibeu; Replacement of Existing non-functioning systems

### 3.2.1 Environmental Safeguards

The original design for the Ocean Outfall sub-project, as developed by the PPTA, was based on a horizontal Directional Drilling Method (HDD). The concept included a HDD through the reef to emerge at a depth of 30 m. The international Bid resulted in the bids being over the estimated value of US\$4 m. The Bid Evaluation Report, recommended that the bid for ICB 02 Ocean Outfalls, Betio, Bairiki and Bikenibeu , (HDD) be cancelled was submitted the MPWU in June 2014. ADB decision of “no objection”, was received 20 August 2014

However, there has been preliminary work carried out on a work plan for further Ocean Outfall options based on the Over the Reef approach. The BEIA of April 2014 was submitted to ECD, however (as referred to in the ICB 01 Section), the ECD advised that BEIA submitted be split and the sewer system and anaerobic digester component be separated from the sewage outfall works and that the two components be submitted as separate environmental assessment. Ultimately the requirements and category for the Environmental Impact Assessment, will be directed by ECD.

Limited amount of work apart from preparation has commenced on the ICB 02 “Over the Reef” Sewage Outfall Proposal. However, a TOR for associated Investigations, for a marine surface and subsurface survey examining alignment options, including a diving survey has been completed and will be reported on in the next Semi-annual Monitoring Report. This work will provide initial basic information for the completion of the new environmental assessment; specifics as yet to be decided by ECD and ADB.

### 3.2.2 Social Safeguards

Developing safeguards for the ICB 02 Over the reef Ocean Outfall sub project, will depend on the configuration of the design and the physical interventions that will be proposed. Based on this the social issues will be identified and addressed along with mitigation measures accordingly...

## 3.3 On-Site Sanitation Subproject

### 3.3.1 Environmental Safeguards (On Site Sanitation)

An application to undertake the On Site Sanitation Sub-project was filed with the Ministry of Environment, Agriculture and Land Development’s (MELAD’s) Environmental Conservation Division (ECD) responsible for EIA in Kiribati, to seek a ruling on the type of environmental assessment needed. On September 25th, 2013, ECD ruled that a Basic EIA or BEIA would be required.

The BEIA was completed submitted to MELAD’s ECD in May 2014. The BEIA examined the potential impacts of the activities involved in installation and operation of a number of different types of single family toilets, and proposed mitigation and monitoring measures necessary to prevent and/or minimise impact, as well as a plan to track changes to the groundwater quality over a number of operating years. The ECD informed the MPWU that the BEIA for the On-site Sanitation Candidate sub Project was deemed satisfactory on 20 June 2014. On 28 August 2014 MELAD Presented MPWU with and Environmental License for the On-site sanitation work. (EI 149/12).

Since the STSISP sub-project eligibility criteria state that proposed sub-projects cannot have significant environmental or resettlement impact or require land acquisition. The On-Site Sanitation subproject was carefully structured to meet these criteria.. Although no work has started, the Environmental Monitoring Table from the BEIA's Environmental Management Plan has been reproduced to provide an indication of the extent of environmental safeguard planning completed to date.

The MPWU is to be wholly managed by MPWU and not by SMEC. Additional Funding has been facilitated with reference to the ADB.

On 28 August 2014 MELAD Presented MPWU with and Environmental License for the On-site sanitation work. (EI 149/12 )

### Environmental Safeguards

Taken from the BEIA On site Sanitation, EMP: Environment Monitoring Table (EMoT)

Environmental Issue	Mitigation Measures	Monitoring Actions and Deliverable	Location	Time Frame	Executing Unit	Reporting Responsibility	Status December 30, 2014
<b>1. PRECONSTRUCTION PERIOD</b> -These are not actually impacts but rather failures to act, causing negative impacts during the construction period							
<b>1.1</b> Design of toilet facilities not utilizing/applying best available contaminant control technology and procedures	<b>1.1</b> All installations will be designed so as to discharge the absolute minimum amount of untreated waste and with a specific design boundary related to the distance to freshwater lenses and potable water wells. The design of dosing structures and sizing of leaching as well as denitrification trenches will need to be careful worked out (based on user-numbers).	<b>1.1</b> Check designs to insure maximum inclusion of contamination prevention components including dosing systems, and various trenches	All locations of households	During the detailed design stage	MPWU Sanitary Engineer	MPWU	
<b>1.2</b> Landowners not fully consulted at re installation, location and timing of installation	<b>1.2</b> At least 2 weeks before start of any work and after the second round of BEIA consultations the landowners will be briefed on the method, timing and operation of the installation they will receive. At that time landowners will be reminded of their responsibility in return for the free installation.	<b>1.2</b> Provide details of landowner for consultations	All locations of households	Prior to commencement of work	MPWU Sanitary Engineer	MPWU	The sub project or contract has not been sanctioned Dec 2014

Environmental Issue	Mitigation Measures	Monitoring Actions and Deliverable	Location	Time Frame	Executing Unit	Reporting Responsibility	Status December 30, 2014
<b>1.3</b> Inappropriate site selection	<b>1.3</b> Working closely with the landowner, the CSE will establish the exact (as best as possible) location of the installation. Parameters that will have to be specifically considered will be vertical distance to GW, horizontal distance to any potable water well, ease of service considerations, and prevailing wind direction in relation to dwellings, and shade.	<b>1.3</b> Working with the 28 consultation agreements, define exact location on each property and record on consultation record. These records should be available for submission to MPWU and ADB as needed	All locations of households	Prior to commencement of work	MPWU Sanitary Engineer	MPWU	The sub project or contract has not been sanctioned Dec 2014  Initial Consultation has occurred with 28 locations/properties  See appendix 1 of this report and Annex 3 of the On Site Sanitation BEIA, Example of site location 1, presented in Annex 2
<b>1.3</b> Inappropriate site selection	<b>1.3</b> Working closely with the landowner, the CSE will establish the exact (as best as possible) location of the installation. Parameters that will have to be specifically considered will be vertical distance to GW, horizontal distance to any potable water well, ease of service considerations, and prevailing wind direction in relation to dwellings, and shade.	<b>1.3</b> Working with the 28 consultation agreements, define exact location on each property and record on consultation record. These records should be available for submission to MPWU and ADB as needed	All locations of households	Prior to commencement of work	MPWU Sanitary Engineer	MPWU	The sub project or contract has not been sanctioned Dec 2014  Initial Consultation has occurred with 28 locations/properties  See appendix 1 of this report and Annex 3 of the On Site Sanitation BEIA, Example of site location 1, presented in Annex 2
<b>1.4</b> Piezometers not installed or improperly installed	<b>1.4</b> Piezometer installation at least 18) will begin as soon as the BEIA has been approved and bidding is underway, in order to establish baseline quality conditions for the surrounding freshwater lenses. With each installation water depth and proper function of the piezometer will be verified and each will be capped and sealed to avoid contamination	<b>1.4</b> Complete inspection of each piezometer and prepare written record of checks and proper operation of each (18) piezometers.	At 18 sites as defined in Annex Table 1b and finalized by the sanitary engineer, working with the environmental specialist	At least 4 months prior to the start of construction	MPWU Sanitary Engineer and Int'l. Env. Specialist< with the PUB survey crew assigned	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014

Environmental Issue	Mitigation Measures	Monitoring Actions and Deliverable	Location	Time Frame	Executing Unit	Reporting Responsibility	Status December 30, 2014
<b>1.5</b> GW quality sampling not undertaken, undertaken not according to instructions or testing done in error	<p><b>1.5</b> The MPWU technician crew designated to collect these samples will receive a two day training in sample collection, handling and analysis using a couple of actual sites as training piezometer locations. Technicians will be trained in instrument calibration</p> <p>The protocol for GW quality quality sample collection is defined in paragraph tests will be performed for:</p> <ul style="list-style-type: none"> <li>• Conductivity (micro Siemens)</li> <li>• Salinity ( g/L)</li> <li>• pH</li> <li>• Ammonia NH3-N ( mg/L)</li> <li>• Nitrate NO4-N (mg/L)</li> <li>• Total Ortho-Phosphate (mg/L)</li> <li>• Faecal coliform and ecoli, presence, using the Colilert or Colilert-18 kits.</li> </ul> <p>As soon as the first set of samples are analysed, the international environmental specialist and sanitary engineer will examine the data in relation to comparable findings in other studies and provide opinion on the quality of the results.</p>	<b>1.5</b> Have available for review the GQ quality monitoring report, prepared according to the design defined in the BEIA	At all 18 piezometer installations	2 times before facilities are installed	MPWU survey crew	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014
<b>1.6</b> Inadequate GW quality and pre-construction mitigation reporting	<b>1.6</b> CSE, working in close collaboration with the PUB survey crew will prepare a pre-construction monitoring completion report, including tables a graphs showing conditions at each piezometer as well as a completion checklist of the other actions defined above.	<b>1.6</b> Obtain for the record and submit to MPWU the GW quality preconstruction monitoring report	For all sites	At least 2 week prior to the initiation of toilet installation.	MPWU and PUB Survey team	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014
<b>1.7</b> Installation fails to contain contamination and aggravates the pollution problem	<b>1.7</b> Should the GW testing reveal an increase in contaminant levels such as with nitrate, and phosphate and the presence of bacterial indicators, a sewage collection contingency plan will be prepared by the sanitary engineer defining the steps needed to stop the contamination; most likely sewage removal using a suction tank and sealing the facility.	<b>1.7</b> Confirm as a written note to file the submission of the contingency clean-up plan if installation(s) fail	For all sites	Within the 1 <sup>st</sup> month that the sanitary engineer is on the project	MPWU sanitary engineer	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014 Sanitary Engineer not on project until project sanctioned



Environmental Issue	Mitigation Measures	Monitoring Actions and Deliverable	Location	Time Frame	Executing Unit	Reporting Responsibility	Status December 30, 2014
<b>2. CONSTRUCTION PERIOD</b>							
<b>2.1</b> Failure to reconfirm access to property and specific demarcation of work area(s)	<b>2.1</b> Contractor/installer will be required to notify the landowner one week before construction begins and at that time demarcate the work area and any sites where excavation will be needed	<b>2.1</b> Obtain record of contractor notification as written notes with names and dates	All sites	1 week Prior to start of construction at any site	MPWU Sanitary Engineer and MPWU	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014
<b>2.1</b> Failure to reconfirm access to property and specific demarcation of work area(s)	<b>2.1</b> Contractor/installer will be required to notify the landowner one week before construction begins and at that time demarcate the work area and any sites where excavation will be needed	<b>2.1</b> Obtain record of contractor notification as written notes with names and dates	All sites	1 week Prior to start of construction at any site	MPWU Sanitary Engineer and MPWU	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014
<b>2.2</b> Risks associated with not adhering to specifications provided	<b>2.2</b> Timely monitoring on construction work progress to ensure specifications are adhered to and it is on schedule	<b>2.2</b> CSE to Record as contractor action , notification by contractor of work and actions on landowner property	All sites	Continuously during construction	MPWU Sanitary Engineer and MPWU	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014
<b>2.3</b> Failure to properly handle wastes	<b>2.3</b> Use of green bags and using dump truck currently operating on fix schedule for disposal of all wastes and removal of all construction wastes according to GOK regulations and standards	<b>2.3</b> Inspect installation sites and have installation checklist to insure proper clean up, submit to CSE	All sites	Continuously during construction	Contractor	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014
<b>2.4</b> Accidental damage to property	<b>2.4</b> Ensuring that all works operations take place in the presence of a supervisor nominated by the Contractor, who shall be responsible for taking all reasonable precautions to prevent damage to property.  Operation of the grievance redress mechanism	<b>2.4</b> Visit each landowner after installation and seek level of satisfaction and any follow-up actions needed by contractor/installer	All sites	Continuously during construction	Contractor /installer and sanitary engineer	MPWU	No Action Waiting for contract to be sanctioned Dec 2014
<b>2.5</b> Accidental damage to utilities	<b>2.5</b> Ensuring that all works operations take place in the presence of a supervisor nominated by the Contractor, who shall be responsible for taking all reasonable precautions to prevent damage to property. Obtaining plans from the PUB showing the locations of pipelines and power cables Consultation with local residents on the location of utilities prior to commencing excavation operations	<b>2.5</b> Request any complaints or issues arising from contractor not consulting with utilities or obtaining the proper building permits from all relevant utilities.	All sites	Continuously during construction	Contractor	MPWU	No Action Waiting for contract to be sanctioned Dec 2014

Environmental Issue	Mitigation Measures	Monitoring Actions and Deliverable	Location	Time Frame	Executing Unit	Reporting Responsibility	Status December 30, 2014
<b>2.6</b> Noise nuisance from construction activities.	<b>2.6</b> Providing information to nearby residents about the duration of noise and dust generating operations. Planning of construction operations to minimize public nuisance. Limit construction operations to take place during daytime hours (8am to 5pm) only. Vehicles, plant and equipment are to conform to international of noise emission and upkeep, such as (i) Part 204 of US Federal Regulations - Noise Emission Standards for Construction Equipment (40 CFR 204) or (ii) Directive 2000/14/EC of the European Parliament and of the Council of 8 May 2000 on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors	<b>2.6</b> Visit all installations at least once and inquire about excessive noise and working beyond daylight hours and visual observations on construction equipment being used.	All sites	Prior to Contractor's Mobilization and Continuously during construction	MPWU sanitary engineer and Contractor	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014
<b>2.7</b> Dust emissions	<b>2.7</b> Regular wetting or covering of stockpiled material to ensure dust is not given off in windy conditions and prompt distribution of stockpile within the household compound	<b>2.7</b> Obtain record of dust control measures taken by contractor—also based on discussion with landowner	All sites	Continuously, during construction	MPWU sanitary engineer and Contractor	MPWU	No Action Waiting for contract to be sanctioned. June 2014
<b>2.8</b> Exhaust emissions	<b>2.8</b> Procurement of vehicles and plant that conform to international emission standards and maintenance to ensure continuing conformity. The Contractor will supply emission certificates for all vehicles, and submit records of maintenance and repair to the supervising engineer	<b>2.8</b> Construction vehicle maintenance record and emission certificates collected from contractor and on file	All sites	At least at start of work	MPWU sanitary engineer and Contractor	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014
<b>2.9</b> Safety hazards to workers and the public	<b>2.9</b> Implementation of Contractor's site safety plan  The Contractor shall maintain a register of accidents detailing date, circumstances, severity, action taken and outcomes	<b>2.9</b> Contractor to provide work safety rules to CSE	Work sites near each outfall location	Continuously, during construction	Contractor	MPWU	No Action Waiting for contract to be sanctioned. Dec 2014
<b>3. OPERATION PERIOD</b>							

Environmental Issue	Mitigation Measures	Monitoring Actions and Deliverable	Location	Time Frame	Executing Unit	Reporting Responsibility	Status December 30, 2014
<b>3.1</b> Failure to maintain rehabilitation work completed as part of the construction mitigation tasks	<b>3.1</b> MPWU will establish a schedule for the maintenance of areas disturbed by the construction and rehabilitated by the contractor. The maintenance cycle will be every 4 months, but with landowners sharing this responsibility.	<b>3.1</b> CSE to have on file the schedule prepared and insure that it is with MPWU-PUB	Applicable to all sites	Within first month of start of operations of toilets	MPWU/ PUB MPWU - sanitary engineer	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014
<b>3.2</b> Failure of MPWU's PUB to provide 28 landowner installations with training in operation & maintenance of their toilets	<b>3.2</b> MPWU/PUB to conduct training sessions with landowner groups with similar toilet types on operation and maintenance	<b>3.2</b> MPWU make available record of consultation and submit to ADB as part of semi-annual reporting	For All sites	Within first month of start of operations of toilets	MPWU/PUB , with help from MPWU - sanitary engineer	MPWU/PUB	No Action Waiting for contract to be sanctioned. June 2014 No Action Waiting for contract to be sanctioned. Dec 2014
<b>3.3</b> Odour from VIP latrines and compost toilet	<b>3.3</b> Cleanliness is maintained both within and outside. Regular awareness Regular painting maintenance is required on the vent pipe to maintain good ventilation	<b>3.3</b> MPWU to confirm via inspection ( at least 3X/yr.) that system is functioning	VIP latrines and compost toilets project site	Continuously, during operation	MPWU to implement awareness  Household to implement the rest of the mitigation measure	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014
<b>3.4</b> Odour from trenches due to clogging	<b>3.4</b> Monitoring is done at the inspection caps provided on a regular basis  Removal of clog	<b>3.4</b> MPWU to confirm via inspection ( at least 3X/yr.) that system is functioning	All trenches	Continuously, during operation	Household with assistance from MPWU and CSE's sanitary engineer	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014
<b>3.5</b> Insect problems	<b>3.5</b> Drop hole is sufficiently covered with appropriate lid when not in use.  Vent is covered with non-corroding mesh wire to stop insect from entering the substructure through the vent pipe.  The interior of the superstructure is made dark to allow insect to move out from the superstructure toward the light	<b>3.5</b> MPWU to confirm via inspection ( at least 3X/yr.) that system is functioning	VIP latrines and Compost toilet project sites	Continuously, during operation	Household and contractor	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014

Environmental Issue	Mitigation Measures	Monitoring Actions and Deliverable	Location	Time Frame	Executing Unit	Reporting Responsibility	Status December 30, 2014
<b>3.6</b> Leakage from trenches due to lack of maintenance	<b>3.6</b> Household should also report suspicious odour from trenches.  Regular monitoring and maintenance	3.6 MPWU to confirm via inspection ( at least 3X/yr.) that system is functioning	Location of trenches	Continuously during operation	MPWU/STSI SP	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014
<b>3.7</b> Effects of using aqua privy, PIV latrines and compost toilets substructures as dumping pits	<b>3.7</b> Regular awareness on the proper use and training in and assistance with use of composted materials	3.7 MPWU to confirm that the training of landowners included specifics on these toilet types.	Sites with aqua privy, compost toilet .microflush toilets and VIP latrines	Continuously during operation	MPWU/STSI SP	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014
<b>3.8</b> Failure to properly remove and free up clogged trenches processed sludge and compost material from ecosan and microflush toilets	<b>3.8</b> MPWU/PUB will discuss with all 28 installation landowners, the maintenance requirement for their system, define a schedule and assist with the implementation. MPWU/PUB will also insure that landowners have and wear appropriate protective clothing, e.g., foot ware, gloves, when working with the stabilized materials  De-sludging truck should be used at all times	3.8 MPWU to confirm via inspection ( at least 3X/yr.) that system is functioning	All sites	As appropriate during operation	MPWU/PUB /Household and CSE's Sanitary engineer	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014
<b>3.9</b> Operating period monitoring not undertaken or undertaken improperly	<b>3.9</b> MPWU/PUB will undertake the GW quality monitoring using the piezometers installed, exactly as undertaken during the preconstruction sampling program, based in a schedule of 3X/year for hears 1, 3 and 5.	3.9 MPWU to retain the annual GW quality monitoring report for each of the monitoring years ( 1,3,5) and have submit with reporting to ADB	For All 18 sites	Starting 4 months after the installations, and 3X/year for the three years defined	MPWU/PUB /Household and CSE's sanitary engineer	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014
<b>3.10</b> The toilet system contingency plan as defined in Item 1.7 above is not completed and/or not passed on into the operational phase	<b>3.10</b> MPWU/PUB will confirm that a contingency plan is in place to remove and clean up any facility that has shown that it does not function and is contributing to further degradation of the freshwater lenses	3.10 MPWU to have in hand a contingency plan to clean up if system installed does not work.	Applicable to all sites	At start of operation period	MPWU/PUB /Household and CSE's sanitary engineer	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014
<b>3.11</b> Poor maintenance leading to risk of GI and other communicable diseases	<b>3.11</b> As part of the monitoring program, FC and Ecoli measurements will be taken, as well as samples of the processed compost from the dry-systems	3.11 MPWU/PUB to include FC.ecoli bacterial indicator tests for the GW sampling as well as testing of compost materials taken from the dry toilet systems. 3x/yr for years 1, 3 and 5.	Applicable to all sites	For three years as defined	MPWU/PUB /Household and CSE's sanitary engineer	MPWU/PUB	No Action Waiting for contract to be sanctioned. Dec 2014

PUB= Public Utilities Board of MPWU, responsible for waste management

### **3.3.2 Social Safeguards**

Land rights and coastline/lagoon rights are subject to traditional ownership. Decisions are made by landowners and village communities. Therefore getting approval for the installation of on-site sanitation facilities from the land owners, or those who live and use the candidate land area, is essential. During 2011, considerable time was spent on meeting with each landowner, gaining agreements on the installations and recording these discussions in individual reports.

The Candidate Sub Project has changed in some regard since the initial consultations. A new round of discussions with potential land owners may be required if in the interim period land ownership may have changed and some owners may have changed altered their decisions as to construction of toilets on their property.

## **3.4 Sanitation and Hygiene Practices Capacity Building (Part A)**

### **3.4.1 Environmental And Social Safeguards**

There are no safeguard issues relating to the work associated with this program. The aim of the program is to increase the awareness of the public, through community based activities and associated engagement, of the need for hygienic sanitation practices.

## **3.5 Establishment of the Sanitation Maintenance Fund ( Part D)**

### **3.5.1 Environmental And Social Safeguards**

The Sanitation Maintenance fund designed to be used for the initial maintenance of the rehabilitated sewer system and Ocean Outfalls. To date there has been a SMF Accounting Manual developed. Future work on the governance of the SMF is to take place and programed for Q1 2015. No safe guard issues have been triggered

## 4 Conclusion

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### 4.1 ICB 01, Environmental and Social Safeguards:

- All preconstruction requirements as defined in the subproject's EMP have been implemented
- As of December 2014 the contractor had not entered into construction phases of the contract with MPWU hence construction period safeguard monitoring activities have not been implemented.
- Resettlement related activities associated with PS 1 and 6, Bikenibeu continue, PS 6 owners have signed a letter of intent to accept compensation. PS 1, ownership is disputed and all of the three potential owners have signed a letter of intent. The compensation amount is held with Government

### 4.2 ICB 2 Three Ocean Outfalls

- The ICB 02 Ocean Outfalls Betio, Bairiki and Bikenibeu (HDD) Bid Evaluation Report recommends that ICB02 be cancelled. This was met with No Objection 20 August 2014.
- The BEIA for ICB 01 and ICB 02 was submitted to ECD and subsequently, following a request, ICB 01 was split and re-presented to ECD. No further work on EIA for ICB 02 has occurred
- Limited preliminary planning and research work has proceeded on ICB 02 (Over the reef) since the submission receipt of No Objection to Cancel Bid (ICB 02 HDD)
- MPWU is moving forward with filing a new application with ECD and ADB to obtain a ruling on the environmental classification for the proposed construction of three Over-The- Reef outfall option, instead of HDD outfalls, which proved to greatly exceed the available funding. This activity will be Q1- Q2 2015

### 4.3 On Site Sanitation Environmental Safeguards:

- The BEIA for this subproject has been completed approved by both ADB and MELAD's ECD.
- The Onsite sanitation project was to be sanctioned by June 2014, but this has not taken place.
- MELAD has issued a Licence EI 149/12 to MPWU for the On Site Sanitation project 28 August 2014, and MPWU is awaiting additional funding to proceed with this subproject.

### 4.4 Sanitation and Hygiene Practices Capacity Building (Part A)

Community Engagement continues, with 24 Communities engaged during this period. (50 in total to date) There are no safe guard impacts

### 4.5 Establishment of the Sanitation Maintenance Fund (Part D)

No direct work on the SMF occurred during the report period

## Appendix 1 Report submitted July 2014 following eight public consultations associated with the ICB 01 Project

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Mr. Ioataake Timeon

Secretary  
Ministry of Public Works and Utilities  
Betio, South Tarawa  
Republic of Kiribati

24 July, 2014

Our Ref. MPWU 19/49 STSISP 09/14

Dear Secretary Timeon,

**RE: STSISP ICB 01 Sewerage rehabilitation Sub-Project, Betio, Bairiki, Bikenibeu.**

**Report relating to the requirements stipulated by MELAD Ref 3/103(b) 20 June 2014, Ref 3/103(b) 26 June 2014.**

I am pleased to be able to submit the following document highlighting the activities relating to the EIA Public Consultation STSISP ICB 01.

This report has been developed to furnish MELAD with the feedback and evidence of compliance to the requirements stipulated in Ref 3/103 (b) 20 and 26 June 2014 and relating to the South Tarawa Sanitation Improvement Sector Project STSISP, ICB 01; Rehabilitation of Sewer and Saltwater Systems in Betio, Bairiki and Bikenibeu, submission of the BEIA and request for an Environmental license. This report covers the Environmental Impact Assessment, Public Consultation Exercise.

### 4.6 Executive Summary

Following submission to MELAD from SMEC/MPWU, the BEIA for the Rehabilitation of Sewer and Saltwater Systems in Betio, Bairiki and Bikenibeu project was found to be satisfactory. MELAD required a Public consultation including :

- Documents to be displayed at MELAD, TUC, USP, BTC, MPWU, OB Office, Library Bairiki
- A 3 Posters MFED, KPF, MOEL, Airport, Inanoi
- Radio Announcement, 3 one week \*2 per day, 4 week two \*2 per day
- Advertisements Te Uekera / News Star, two weeks
- Public consultations 3 Betio, 2 Bairiki, 3 Bikenibeu
- Radio FM / Raidio Kiribati advertising public consultations
- Radio FM / Raidio Kiribati advertising public consultations

This was stipulated in MELAD letter to MPWU ref 3/103 (b) 20 June 2014, 26 June 2014.

Eight public consultations were held following the requirements of the communique with MELAD. Overall statistics can be cited on Table eight, however there was an average of 29.5 people attending the Consultations. Of the 256 people attending, 63% were female and 37% male.

The presentations followed initial meetings with the local elders, and commenced with a community education activity, designed by the Community Mobilisers and focused on a theme around hygienic methods in households. The presentation was arranged in two parts. This was designed to keep an active interest and to promote questions during the consultation. The presentation followed a plan set out on a power point with both English narrative and Kiribati language explaining the process and findings. The presentation addressed the key details of the project:

- Locations, timing, and current status.
- The need for the project and the justification to proceed.
- The findings of the environmental impact study, including addressing the main impacts identified.

- Discussions on how the identified impacts would be managed and the measures taken to address them.
- A summary of previous public consultations were presented with information regarding questions tabled at that time.
- In conclusion the audience were informed where they could gain more information and the avenues available to post any enquiries

The meetings concluded with questions. The main theme of the questions included issues with the current smell. It was answered by stating that the project is designed to clean the system and minimize or eliminate associated smells. The potential for local employment during the project was raised, and the answer included that it is intended to have locals employed within the project during construction.

The general feedback was a positive view of the project. People want a system that works and assists in the health of the community. They recognize that the project is going to assist in obtaining a working system.

## Status

Table One Status	
Requirement	Status
Documents to be displayed at MELAD, TUC, USP, BTC, MPWU, OB Office, Library Bairiki	Complete
A3 Posters MFED, KPF, MOEL, Airport, Inanoi	Complete
Radio Announcement, 3 one week *2 per day, 4 week two *2 per day	Complete
Advertisements Te Uekera / News Star, two weeks	Complete
Public consultations 3 Betio, 2 Bairiki, 3 Bikenibeu	Complete
Radio FM / Raidio Kiribati advertising public consultations	Complete
Newspaper advertising public consultations	Complete



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#### 4.7 Summary of events and advertisements






Table Two Summary of events and advertisements

Summary of EIA Public Consultation July 2014	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	T	W	Th	F	S	Su	M	T	W	Th	F	S	Su	M	T	W	Th	F	S	Su
Public Holidays																				
Radio Announcement Morning Radio Kiribati																				
Radio Announcement Evening Radio Kiribati																				
Radio announcement For Public Cons Morning Radio Kiribati													1	2	3	3				
Radio announcement For Public Cons Evening Radio Kiribati												1	1	2	3					
Radio announcement For Public Cons Morning Radio FM89													1	2	3	3				
Radio announcement For Public Cons Evening Radio FM89												1	1	2	3					
Public Consultation Betio (1)														BET						
Public Consultation Betio (2)															BET					
Public Consultation Betio (3)																BET				
Public Consultation Bairiki (1)														Bai						
Public Consultation Bairiki (2)																BAI				
Public Consultation Bikenibeu (1)														BIK						
Public Consultation Bikenibeu (2)															BIK					
Public Consultation Bikenibeu (3)																BIK				
Newspaper Te Uekera																				
Newspaper NewStar																				
Newspaper Te Uekera Public Hearing																				
Newspaper NewStar Public Hearing																				
Copy of EIA at MPWU																				
Copy of EIA at OB																				
Copy of EIA at Library																				
Copy of EIA at MELAD																				
Copy of EIA at BTC																				
Copy of EIA at TUC																				

Copy of EIA at USP																				
A3 Display MFED, KPF, Moel,																				
A3 Display Airport, Inanoi																				

#### 4.8 A 3 Posters

The following shows the A3 notices posted at the locations stipulated by MELAD


<b>Table Three A 3 Notices</b>				
<b>Date</b>	<b>Location</b>	<b>Town</b>	<b>Photo</b>	<b>Comment</b>
20140701	KPF	Bairiki		A 3 Sheet attached to window
20140701	MFED	Bairiki		A 3 Sheet attached to Notice board
20140701	Moel Trading	Betio		A 3 Sheet attached to window
20140702	Inanoi Store	Bikenibeu		A 3 Sheet attached to wall
20140702	Airport	Bonriki		A 3 Sheet attached to wall

#### 4.9 Copies of EIA


This table indicates the distribution of the BEIA for the sub project for public display. The transmittals indicated the document being received

Each document had a covering letter which can be supplied if requested.








Table Four Transmittals of BEIA documents presented to Public Locations			
(Note there was an accompany letter with addressed to each location with instructions (Not included in report))			
Date	Location	Area	Reference of acceptance
20140701	MELAD	Bikenibeu	Transmittal 1
20140701	OB Office	Bairiki	Transmittal 1
20140701	National Library	Bairiki	Transmittal 1
20140701	BTC Council	Betio	Transmittal 1
20140701	TUC Council	Teaoraereke	Transmittal 2
20140701	USP	Teaoraereke	Transmittal 2
20140701	MPWU	Betio	Transmittal 1
Transmittal 1			Transmittal 2




South Tarawa Sanitation Improvement Sector Project  
Ministry of Public Works and Utilities, Kiribati




DOCUMENT TRANSMITTAL








Date	Document	From	Org	To	Signature
20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 Ref 07/14	ST/SSP SMEC	Greg Longman	MELAD OFFICE Bikenibeu	
X 20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 REF 07/14	ST/SSP SMEC	Greg Longman	OB Office Bairiki	
K 20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 REF 07/14	ST/SSP SMEC	Greg Longman	National Library Bairiki	
X 20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 Ref 07/14	ST/SSP SMEC	Greg Longman	BTC Council Office Betio	
X 20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 Ref 07/14	ST/SSP SMEC	Greg Longman	TUC Office TEAORAEREKE	
20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 Ref 07/14	ST/SSP SMEC	Greg Longman	USP, TEAORAEREKE	
X 20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 REF 07/14	ST/SSP SMEC	Greg Longman	MPWU Office (HQ)-BETIO	



South Tarawa Sanitation Improvement Sector Project  
Ministry of Public Works and Utilities, Kiribati


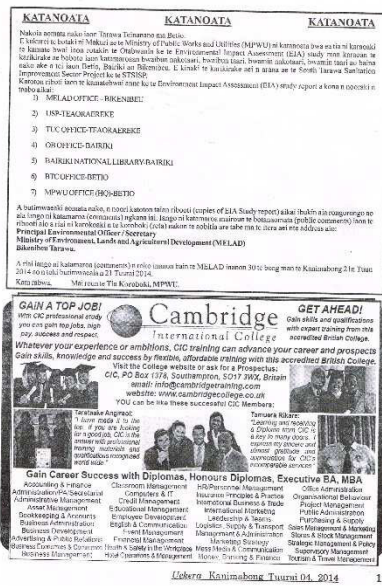

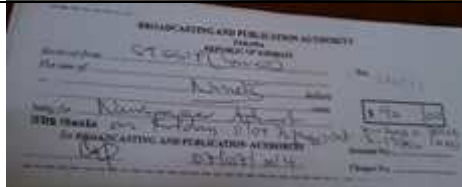


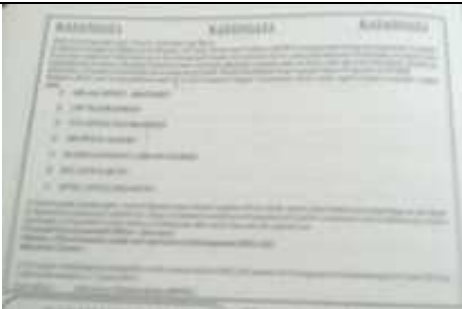

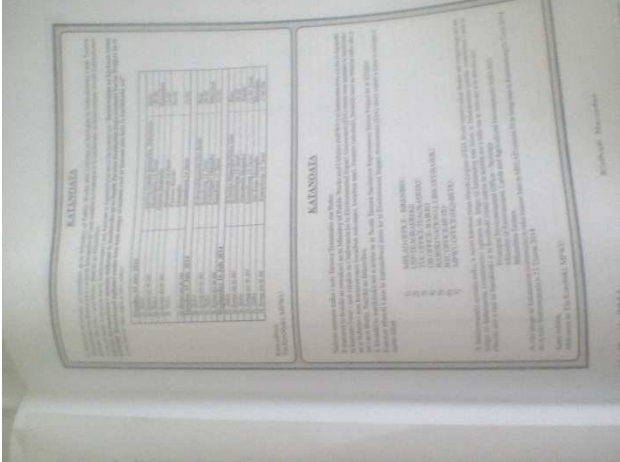


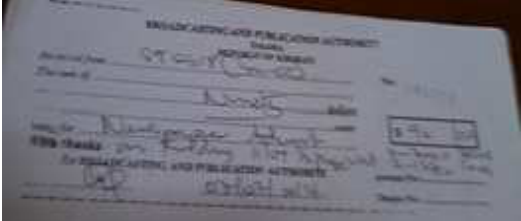
DOCUMENT TRANSMITTAL


Date	Document	From	Org	To	Signature
20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 Ref 07/14	ST/SSP SMEC	Greg Longman	MELAD OFFICE Bikenibeu	
20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 REF 07/14	ST/SSP SMEC	Greg Longman	OB Office Bairiki	
20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 REF 07/14	ST/SSP SMEC	Greg Longman	National Library Bairiki	
20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 Ref 07/14	ST/SSP SMEC	Greg Longman	BTC Council Office Betio	
20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 Ref 07/14	ST/SSP SMEC	Greg Longman	TUC Office TEAORAEREKE	
20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 Ref 07/14	ST/SSP SMEC	Greg Longman	USP, TEAORAEREKE	
20140701	EIA-Sewerage-System-and-Aerobic-digester-ICB-01 REF 07/14	ST/SSP SMEC	Greg Longman	MPWU Office (HQ)-BETIO	

#### 4.10 Summary of Newspaper advertisements

This Summary highlights the advertisements placed in Newspapers and associated receipts

Table Five Newspaper advertisements and associated receipts		
Paper and Date	Item	Image
News Paper : te Uekera Date: 4 July 2014	Receipt	
	Advert	
News Star 4 July 2014	Receipt	
Te UEkera 11 July 2014 (As 4 July 2014)	Receipt	

Te UEkera 11 July 2014	Advert	
News Star General 11 July 2014	Receipt	
News Star General 11 July 2014	Advert	
News Star Public Consultation 11 July 2014	Receipt	
News Star Public Consultation 11 July 2014	Advert	
Te UEkera Public consultation 11 July 2014	Receipt	

<p>Te UEkera Public consultation 11 July 2014</p>	<p>Advert</p>	
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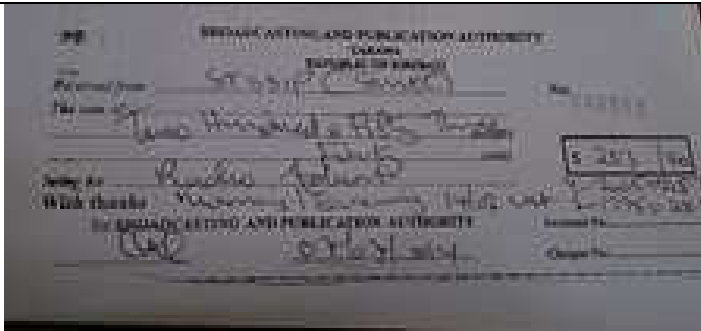
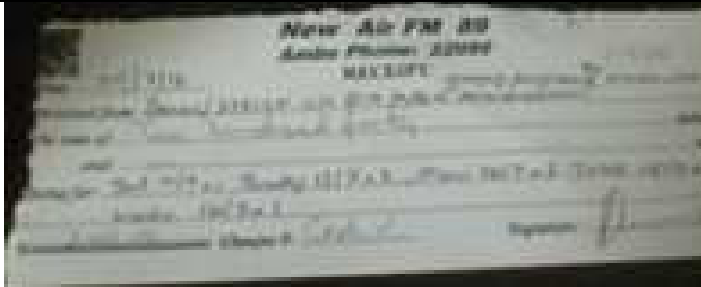


4.11 RADIO KIRIBATI General announcement and Radio Kiribati / FM 89 Public consultation announcement

## 4.12

Table Six Schedule and text for the radio announcements on Radio Kiribati Plus receipt

[illegible]

Wednesday 16 JULY Radio Kiribati	Public Consultation Receipt Radio Announcements on Tuesday 15 <sup>th</sup> July at PM & AM, Wednesday 16 July AM	
Public consultations Radio FM 89 Saturday 12 July *1, Sunday 13 July *2, Monday 14 July *2, Tuesday 15 July * 2, Wednesday 16 July *1	Public Consultation Receipt Radio Announcements on Saturday 12 <sup>th</sup> July at PM, Sunday 13 July at AM & PM. Radio Announcements on Monday 14 <sup>th</sup> July at PM & AM, Radio Announcements on Tuesday 15 <sup>th</sup> July at PM & AM, Wednesday 16 July AM	

Newspaper General Advertisement For 4 July 2014 Te Uekera

**KATANOATA**

Nakoia aomata nako iaon Tarawa Teinanano ma Betio.

E kukurei te botaki ni Makuri ae te Ministry of Public Works and Utilities (MPWU) ni katanoata bwa ea tia ni karaoaki te kamate bwai iaon rotakin te Otabwanin ke te Environmental Impact Assessment (EIA) study man karaoan te karikirake ae boboto iaon katamaroan bwaibun nakotaari, bwaibun taari, bwamin nakotaari, bwamin taari ao baina nako ake a tei iaon Betio, Bairiki ao Bikenibeu. E kinaki te karikirake aei n arana ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP.

Katoton riboti iaon te kamatebwai anne ke te Environment Impact Assessment (EIA) study report a kona n nooraki n taabo aikai:

- 1) MELAD OFFICE – BIKENIBEU
- 2) USP-TEAORAEREKE
- 3) TUC OFFICE-TEAORAEREKE
- 4) OB OFFICE- BAIRIKI
- 5) BAIRIKI NATIONAL LIBRARY-BAIRIKI
- 6) BTC OFFICE-BETIO
- 7) MPWU OFFICE (HQ)-BETIO

A butimwaeaki aomata nako, n noori katoton taian ribooti (copies of EIA Study report) aikai ibukin aia rongorongo ao aia iango ni katamaroa (comments) ngkana iai. Iango ni katamaroa mairoun te botanaomata (public comments) iaon te ribooti aio a riai ni karokoaki n te koroboki (reta) nakon te aobitia are tabe ma te itera aei nte address aio:

**Principal Environmental Officer / Secretary**  
**Ministry of Environment, Lands and Agricultural Development (MELAD)**  
**Bikenibeu Tarawa.**

A riai iango ni katamaroa (comments) n roko inanon bain te MELAD inanon 30 te bong man te Kanimabong 21n Tuun 2014 ao n toki butimwaeai n 21 Tuurai 2014.

Kam rabwa,

Mai roun te **Tia Koroboki, MPWU.**

For 4 July 2014 General Advertisement NEW STAR

## KATANOATA

Nakoia aomata nako iaon Tarawa Teinanano ma Betio.

E kukurei te botaki ni Makuri ae te Ministry of Public Works and Utilities (MPWU) ni katanoata bwa ea tia ni karaoaki te kamate bwai iaon rotakin te Otabwanin ke te Environmental Impact Assessment (EIA) study man karaoan te karikirake ae boboto iaon katamaroan bwaibun nakotaari, bwaibun taari, bwamin nakotaari, bwamin taari ao baina nako ake a tei iaon Betio, Bairiki ao Bikenibeu. E kinaki te karikirake aei n arana ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP.

Katoton riboti iaon te kamatebwai anne ke te Environment Impact Assessment (EIA) study report a kona n nooraki n taabo aikai:

- 1) MELAD OFFICE – BIKENIBEU
- 2) USP-TEAORAEREKE
- 3) TUC OFFICE-TEAORAEREKE
- 4) OB OFFICE- BAIRIKI
- 5) BAIRIKI NATIONAL LIBRARY-BAIRIKI
- 6) BTC OFFICE-BETIO
- 7) MPWU OFFICE (HQ)-BETIO

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**Principal Environmental Officer / Secretary**  
**Ministry of Environment, Lands and Agricultural Development (MELAD)**  
**Bikenibeu Tarawa.**

A riai iango ni katamaroa (comments) n roko inanon bain te MELAD inanon 30 te bong man te Kanimabong 21n Tuun 2014 ao n toki butimwaeai n 21 Tuurai 2014.

Kam rabwa,

Mai roun te **Tia Koroboki, MPWU.**

For 11 July 2014 General Advertisement NEW STAR

### **KATANOATA**

Nakoia aomata nako iaon Tarawa Teinanano ma Betio.

E kukurei te botaki ni Makuri ae te Ministry of Public Works and Utilities (MPWU) ni katanoata bwa ea tia ni karaoaki te kamate bwai iaon rotakin te Otabwanin ke te Environmental Impact Assessment (EIA) study man karaoan te karikirake ae boboto iaon katamaroan bwaibun nakotaari, bwaibun taari, bwamin nakotaari, bwamin taari ao baina nako ake a tei iaon Betio, Bairiki ao Bikenibeu. E kinaki te karikirake aei n arana ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP.

Katoton riboti iaon te kamatebwai anne ke te Environment Impact Assessment (EIA) study report a kona n nooraki n taabo aikai:

- 1) MELAD OFFICE – BIKENIBEU
- 2) USP-TEAORAEREKE
- 3) TUC OFFICE-TEAORAEREKE
- 4) OB OFFICE- BAIRIKI
- 5) BAIRIKI NATIONAL LIBRARY-BAIRIKI
- 6) BTC OFFICE-BETIO
- 7) MPWU OFFICE (HQ)-BETIO

A butimwaeaki aomata nako, n noori katoton taian ribooti (copies of EIA Study report) aikai ibukin aia rongorongo ao aia iango ni katamaroa (comments) ngkana iai. Iango ni katamaroa mairoun te botanaomata (public comments) iaon te ribooti aio a riai ni karokoaki n te koroboki (reta) nakon te aobitia are tabe ma te itera aei nte address aio:

**Principal Environmental Officer / Secretary**  
**Ministry of Environment, Lands and Agricultural Development (MELAD)**  
**Bikenibeu Tarawa.**

A riai iango ni katamaroa (comments) n roko inanon bain te MELAD inanon 30 te bong man te Kanimabong 21n Tuun 2014 ao n toki butimwaeai n 21 Tuurai 2014.

Kam rabwa,

Mai roun te **Tia Koroboki, MPWU.**

For 11 July 2014 General Advertisement Te UEKERA

### **KATANOATA**

Nakoia aomata nako iaon Tarawa Teinanano ma Betio.

E kukurei te botaki ni Makuri ae te Ministry of Public Works and Utilities (MPWU) ni katanoata bwa ea tia ni karaoaki te kamate bwai iaon rotakin te Otabwanin ke te Environmental Impact Assessment (EIA) study man karaoan te karikirake ae boboto iaon katamaroan bwaibun nakotaari, bwaibun taari, bwamin nakotaari, bwamin taari ao baina nako ake a tei iaon Betio, Bairiki ao Bikenibeu. E kinaki te karikirake aei n arana ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP.

Katoton riboti iaon te kamatebwai anne ke te Environment Impact Assessment (EIA) study report a kona n nooraki n taabo aikai:

- 1) MELAD OFFICE – BIKENIBEU
- 2) USP-TEAORAEREKE
- 3) TUC OFFICE-TEAORAEREKE
- 4) OB OFFICE- BAIRIKI
- 5) BAIRIKI NATIONAL LIBRARY-BAIRIKI
- 6) BTC OFFICE-BETIO
- 7) MPWU OFFICE (HQ)-BETIO

A butimwaeaki aomata nako, n noori katoton taian ribooti (copies of EIA Study report) aikai ibukin aia rongorongo ao aia iango ni katamaroa (comments) ngkana iai. Iango ni katamaroa mairoun te botanaomata (public comments) iaon te ribooti aio a riai ni karokoaki n te koroboki (reta) nakon te aobitia are tabe ma te itera aei nte address aio:

**Principal Environmental Officer / Secretary**  
**Ministry of Environment, Lands and Agricultural Development (MELAD)**  
**Bikenibeu Tarawa.**

A riai iango ni katamaroa (comments) n roko inanon bain te MELAD inanon 30 te bong man te Kanimabong 21n Tuun 2014 ao n toki butimwaeai n 21 Tuurai 2014.

Kam rabwa,

Mai roun te **Tia Koroboki, MPWU.**

Public Consultation Newspaper ad Te Uekeria

11 July 2014	Friday	TE Uekera
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KATANOATA

E kukurei te botaki n makuri ae te Ministry of Public Works and Utilities n kaongoa te botan aomata iaon Tarawa Teinainano ma Betio ba ea tia kamatebai iaon rotakin te Otabanin nte karikirake ae katamaroan mwin kainnakotari ao taari ake a tei iaon Betio, Bairiki ao Bikenibeu.

Ana iai te maroro ma te botanaomata iaon kanoan te kamatebai are ena boboto iai **“Butimaeen ao kaekaan taian titiraki ke kamatata imain wakinan te karikirake ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP. Kababanei ngkami rooko ba kamaonga n matata raoi ni kanoan ana kete te karikirake aei”**.

**Ena boo n tabo aika oti inano:**

Monday 14 July 2014		
Te Tabo	Arebwa Omeke Maneaba Takoronga	Betio
Te bong ao te tai	Moanibong 14 Turai	09:00
Te Tabo	Ionatia Maneaba	Bikenibeu
Te bong ao te tai	Moanibong 14 Turai	12:30
Te Tabo	Kaawan Bairiki Maneaba	Bairiki
Te Bong ao te tai	Moanibong 14 Turai	15:00
Tuesday 15 July 2014		
Te Tabo	St Betero Maneaba Oni-Beeki	Betio
Te bong ao te tai	Kauabong 15 Turai	09:00
Te Tabo	Kaibangaki Maneaba	Bikenibeu
Te bong ao te tai	Kauabong 15 Turai	12:30
Wednesday 16 July 2014		
Te Tabo	St Ioteba Maneaba Police Line	Betio
Te bong ao te tai	Katenibong 16 Turai	09:00
Te Tabo	Nanomalie Maneaba	Bairiki
Te bong ao te tai	Katenibong 16 Turai	12:30 Noon
Te Tabo	Nei Kaue Maneaba	Bikenibeu
Te bong ao te tai	Katenibong 16 Turai	3:00 PM

Kam rabwa,  
**Tia Koroboki, MPWU.**

Public Consultation Newspaper ad News Star

11 July 2014	Friday	New Star
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KATANOATA

E kukurei te botaki n makuri ae te Ministry of Public Works and Utilities n kaongoa te botan aomata iaon Tarawa Teinainano ma Betio ba ea tia kamatebai iaon rotakin te Otabanin nte karikirake ae katamaroan mwin kainnakotari ao taari ake a tei iaon Betio, Bairiki ao Bikenibeu.

Ana iai te maroro ma te botanaomata iaon kanoan te kamatebai are ena boboto iai **“Butimaeen ao kaekaan taian titiraki ke kamatata imain wakinan te karikirake ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP. Kababanei ngkami rooko ba kamaonga n matata raoi ni kanoan ana kete te karikirake aei”.**

Ena boo n tabo aika oti inano:

Monday 14 July 2014		
Te Tabo	Arebwa Omeka Maneaba Takoronga	Betio
Te bong ao te tai	Moanibong 14 Turai	09:00
Te Tabo	Ionatia Maneaba	Bikenibeu
Te bong ao te tai	Moanibong 14 Turai	12:30
Te Tabo	Kaawan Bairiki Maneaba	Bairiki
Te Bong ao te tai	Moanibong 14 Turai	15:00
Tuesday 15 July 2014		
Te Tabo	St Betero Maneaba Oni-Beeki	Betio
Te bong ao te tai	Kauabong 15 Turai	09:00
Te Tabo	Kaibangaki Maneaba	Bikenibeu
Te bong ao te tai	Kauabong 15 Turai	12:30
Wednesday 16 July 2014		
Te Tabo	St Ioteba Maneaba Police Line	Betio
Te bong ao te tai	Katenibong 16 Turai	09:00
Te Tabo	Nanomalie Maneaba	Bairiki
Te bong ao te tai	Katenibong 16 Turai	12:30 Noon
Te Tabo	Nei Kaue Maneaba	Bikenibeu
Te bong ao te tai	Katenibong 16 Turai	3:00 PM

Kam rabwa,  
*Tia Koroboki, MPWU.*



4.13 Public Consultation Radio FM 89 for public consultation Monday 14 July 14

Date	Day	Time	Radio Station
12 July 2014	SATURDAY	Evening	RADIO FM 89
13 July 2014	Sunday	Morning	RADIO FM 89
13 July 2014	SUNDAY	Evening	RADIO FM 89

KATANOATA

E kukurei te botaki n makuri ae te Ministry of Public Works and Utilities n kaongoa te botan aomata iaon Tarawa Teinainano ma Betio ba ea tia kamatebai iaon rotakin te Otabanin nte karikirake ae katamaroan mwin kainnakotari ao taari ake a tei iaon Betio, Bairiki ao Bikenibeu.

Ana iai te maroro ma te botanaomata iaon kanoan te kamatebai are ena boboto iai **“Butimaeen ao kaekaan taian titiraki ke kamatata imain wakanan te karikirake ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP. Kababanei ngkami rooko ba kamaonga n matata raoi ni kanoan ana kete te karikirake aei”**.

Ena boo n tabo aika oti inano:

Monday 14 July 2014		
Te Tabo	Arebwa Omeke Maneaba Takoronga	Betio
Te bong ao te tai	Moanibong 14 Turai	09:00
Te Tabo	Ionatia Maneaba	Bikenibeu
Te bong ao te tai	Moanibong 14 Turai	12:30
Te Tabo	Kaawan Bairiki Maneaba	Bairiki
Te Bong ao te tai	Moanibong 14 Turai	15:00

Kam rabwa,  
***Tia Koroboki, MPWU.***

4.14 Public Consultation Radio FM 89 for public consultation Tuesday 15 July 14

14 July 2014	MONDAY	Morning	RADIO FM 89
14 July 2014	MONDAY	Evening	RADIO FM 89

KATANOATA

E kukurei te botaki n makuri ae te Ministry of Public Works and Utilities n kaongoa te botan aomata iaon Tarawa Teinainano ma Betio ba ea tia kamatebai iaon rotakin te Otabanin nte karikirake ae katamaroan mwin kainnakotari ao taari ake a tei iaon Betio, Bairiki ao Bikenibeu.

Ana iai te maroro ma te botanaomata iaon kanoan te kamatebai are ena boboto iai **“Butimaeen ao kaekaan taian titiraki ke kamatata imain wakinan te karikirake ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP. Kababanei ngkami rooko ba kamaonga n matata raoi ni kanoan ana kete te karikirake aei”**.

**Ena boo n tabo aika oti inano:**

Tuesday 15 July 2014		
Te Tabo	St Betero Maneaba Oni-Beeki	Betio
Te bong ao te tai	Kauabong 15 Turai	09:00
Te Tabo	Kaibangaki Maneaba	Bikenibeu
Te bong ao te tai	Kauabong 15 Turai	12:30

Kam rabwa,  
***Tia Koroboki, MPWU.***

4.15 Public Consultation Radio FM 89 for public consultation Wednesday 16 July 14

15 July 2014	Tuesday	Morning	RADIO FM 89
15 July 2014	Tuesday	Evening	RADIO FM 89
16 July 2014	Wednesday	Morning	RADIO FM 89

KATANOATA

E kukurei te botaki n makuri ae te Ministry of Public Works and Utilities n kaongoa te botan aomata iaon Tarawa Teinainano ma Betio ba ea tia kamatebai iaon rotakin te Otabanin nte karikirake ae katamaroan mwin kainnakotari ao taari ake a tei iaon Betio, Bairiki ao Bikenibeu.

Ana iai te maroro ma te botanaomata iaon kanoan te kamatebai are ena boboto iai **“Butimaeen ao kaekaan taian titiraki ke kamatata imain wakinan te karikirake ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP. Kababanei ngkami rooko ba kamaonga n matata raoi ni kanoan ana kete te karikirake aei”**.

Ena boo n tabo aika oti inano:

Wednesday 16 July 2014		
Te Tabo	St Iteba Maneaba Police Line	Betio
Te bong ao te tai	Katenibong 16 Turai	09:00
Te Tabo	Nanomalie Maneaba	Bairiki
Te bong ao te tai	Katenibong 16 Turai	12:30 Noon
Te Tabo	Nei Kaue Maneaba	Bikenibeu
Te bong ao te tai	Katenibong 16 Turai	3:00 PM

*Kam rabwa,  
 Tia Koroboki, MPWU.*

4.16 Public Consultation Radio Kiribati for public consultation Monday 14 July 14

12 July 2014	SATURDAY	Evening	RADIO KIRIBATI
13 July 2014	Sunday	Morning or lunch	RADIO KIRIBATI
13 July 2014	SUNDAY	Evening	RADIO KIRIBATI

KATANOATA

E kukurei te botaki n makuri ae te Ministry of Public Works and Utilities n kaongoa te botan aomata iaon Tarawa Teinainano ma Betio ba ea tia kamatebai iaon rotakin te Otabanin nte karikirake ae katamaroan mwin kainnakotari ao taari ake a tei iaon Betio, Bairiki ao Bikenibeu.

Ana iai te maroro ma te botanaomata iaon kanoan te kamatebai are ena boboto iai **“Butimaeen ao kaekaan taian titiraki ke kamatata imain wakinan te karikirake ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP. Kababanei ngkami rooko ba kamaonga n matata raoi ni kanoan ana kete te karikirake aei”**.

**Ena boo n tabo aika oti inano:**

Monday 14 July 2014		
Te Tabo	Arebwa Omeka Maneaba Takoronga	Betio
Te bong ao te tai	Moanibong 14 Turai	09:00
Te Tabo	Ionatia Maneaba	Bikenibeu
Te bong ao te tai	Moanibong 14 Turai	12:30
Te Tabo	Kaawan Bairiki Maneaba	Bairiki
Te Bong ao te tai	Moanibong 14 Turai	15:00

Kam rabwa,  
**Tia Koroboki, MPWU.**

4.17 Public Consultation Radio Kiribati for public consultation Tuesday 15 July 14

14 July 2014	MONDAY	Evening	RADIO Kiribati
14 July 2014	MONDAY	Evening	RADIO KIRIBATI

KATANOATA

E kukurei te botaki n makuri ae te Ministry of Public Works and Utilities n kaongoa te botan aomata iaon Tarawa Teinainano ma Betio ba ea tia kamatebai iaon rotakin te Otabanin nte karikirake ae katamaroan mwin kainnakotari ao taari ake a tei iaon Betio, Bairiki ao Bikenibeu.

Ana iai te maroro ma te botanaomata iaon kanoan te kamatebai are ena boboto iai **“Butimaeen ao kaekaan taian titiraki ke kamatata imain wakinan te karikirake ae te South Tarawa Sanitation Improvement Sector Project ke te STSISP. Kababanei ngkami rooko ba kamaonga n matata raoi ni kanoan ana kete te karikirake aei”**.

Ena boo n tabo aika oti inano:

Tuesday 15 July 2014		
Te Tabo	St Betero Maneaba Oni-Beeki	Betio
Te bong ao te tai	Kauabong 15 Turai	09:00
Te Tabo	Kaibangaki Maneaba	Bikenibeu
Te bong ao te tai	Kauabong 15 Turai	12:30

Kam rabwa,  
**Tia Koroboki, MPWU.**

4.18 Public Consultation Radio Kiribati for public consultation Wednesday 16 July 14

15 July 2014	Tuesday	Morning	RADIO KIRIBATI
15 July 2014	Tuesday	Evening	RADIO KIRIBATI
16 July 2014	Wednesday	Morning	RADIO KIRIBATI

KATANOATA

E kukurei te botaki n makuri ae te Ministry of Public Works and Utilities n kaongoa te botan aomata iaon Tarawa Teinainano ma Betio ba ea tia kamatebai iaon rotakin te Otabanin nte karikirake ae katamaroan mwin kainnakotari ao taari ake a tei iaon Betio, Bairiki ao Bikenibeu.

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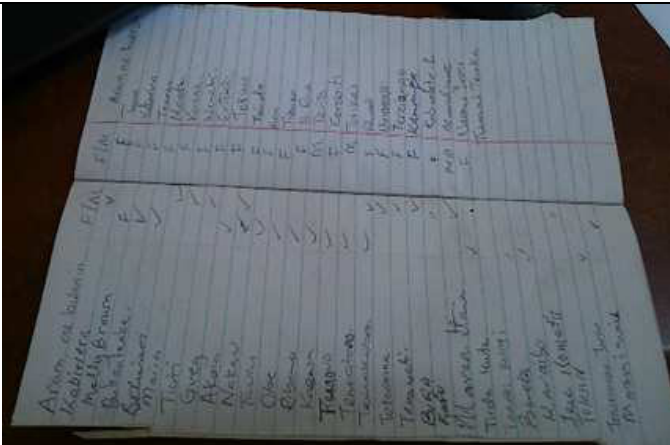
**Ena boo n tabo aika oti inano:**


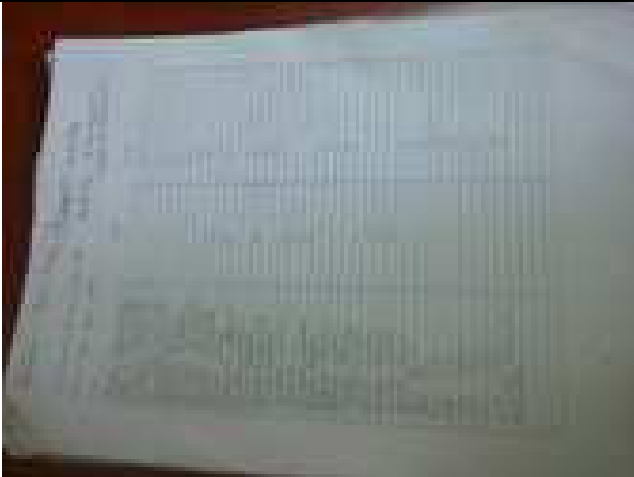
Wednesday 16 July 2014		
Te Tabo	St Ioteba Maneaba Police Line	Betio
Te bong ao te tai	Katenibong 16 Turai	09:00
Te Tabo	Nanomalie Maneaba	Bairiki
Te bong ao te tai	Katenibong 16 Turai	12:30 Noon
Te Tabo	Nei Kaue Maneaba	Bikenibeu
Te bong ao te tai	Katenibong 16 Turai	3:00 PM

Kam rabwa,  
**Tia Koroboki, MPWU.**


## Public consultations



Community activities and a power point presentation were included in the public consultation.



Table Seven Public consultation attendance sheets, and summary of posted questions				
Date	Location	Name	Questions	Attendance sheet
14 July 2014	Betio	Arebwa Omeka Maneaba Takoronga	<p>The question: On the impact on blocked manholes and sewage backflow to household toilet and bathroom. Can Government provide compensation to affected households? Answer provided to the questions is that concerned households can always address to PUB. The public is further informed that once the project is completed the issue of blocked manholes and sewage backflow will be minimized.</p> <p>Question: Can the project provide toilet to households not currently connected to the system? Answer: The project will only rehabilitate manholes, sewage pump stations and damaged sewer pipe. The improvement of house connection will be undertaken and saltwater system will be restored up to households.</p>	

14 July 2014	Bikenibeu	Ionatia Maneaba	<p>Question: (Borerei Uriam) attending the public consultation commend the Project for developing the Bingo game with relevant information on proper sanitation. He encourages the project to introduce the Bingo to other areas on South Tarawa and Betio to promote/encourage safe sanitation practices.</p> <p>Question on sewage blockages and backflow was also raised. In answer to the questions, the Contractor for the project will bring in Vacuum/Jetting equipment to clean sewer pipes, manholes and pump station to reduce emission of bad smell during implementation.</p>	
14 July 2014	Bairiki	Kaawan Bairiki Maneaba	<p>Question: The issue of saltwater and sewage leakages cause dying of trees in the area is raised. Answer, the project will minimize leakages in the saltwater reticulation pipe and sewer pipe to avoid dying of trees in the area.</p> <p>Question: The area of Kawan Bairiki is densely populated and not all households use the beach. Can the project provide toilet to households in need? Answer: The project is only rehabilitating the sewerage and saltwater system.</p> <p>Question : Can the project assist residents of Kawan Bairiki for employment opportunity during construction work? The Contractor is responsible to hire workers. The project will talk with the Contractor before construction start. Contractor has requirement for National workforce.</p>	



			<p>Question : Can the project assist by liaising with the TUC for collection of garbage from their dumping site? The question is raised because most household in Kawan Bairiki do not pay TUC garbage collection fee. The TUC Council member for Bairiki attending the consultation may assist.</p> <p>The question of using Solar pumps for saltwater and sewage pumps were raised. Solar pump cannot be used as it will be a large area to install solar panels – will be very expensive.</p>	
15 July 2014	Betio	Santo St BeteroManea ba Oni-Beeki	<p>Question: Most households in the area cannot be connected to the sewerage system because they are located in an area where it is impossible to connect to the sewerage system. Answer: Other systems such as septic tank or small bore sewerage system can be considered following completion of rehabilitation project.</p> <p>Question from Martin Tofinga MP Betio. Did all the public attendee's understand the presentation and purpose. Response Public did acknowledge understanding of topic.</p> <p>Question Martin Tofinga: will there be local opportunity for employment. Answer: The</p>	

			contractor will follow his specification which details local employment requirements.	
15 July 2014	Bikenibeu	Kaibangaki Maneaba	<p>A question on the need to connect households without toilet was raised. In response to the questions, it was explained that project will only rehabilitate the existing system, but there will another component of the project on trialing other type of toilets. These other type of toilet include septic tank, compost toilet, etc which are designed not contaminate groundwater.</p> <p>The group invite the team to see the Toilet that was under construction for the pre-school pupil – funded from Government small grant.</p> <p>The group express support for the compost toilet to households not currently connected to the sewerage system. This is based on the experience from Kiritimati Island in Kiribati East.</p>	

16 July 2014	Betio	St Ioteba Maneaba Police Line	<p>Question The need for communal toilet in the area was raised. With only one toilet per household the need for the communal toilet can be justified. General support the idea, but it need to be managed properly by the community and is outside of the scope of t. he ICB01.</p> <p>Question The question on whether it is advisable to build simple pit latrine as a substitute to connection to the sewerage was raised. In response to the question, the project team explained building a simple pit latrine Sub project boundary but is outside of the Scope for ICB 01</p> <p>The complaint on sewage blockage in one of the manhole is causing sewage backflow in some houses. The community request the project team to inform PUB before they lodge complaints to MELAD.</p>	
16 July 2014	Bairiki	Nanomalie Maneaba	<p>Question The questions on connecting new households to the sewerage system or building simple pit latrine were raised. The impact of pit latrines on the underlying groundwater was discussed by the team. The attendees are encouraged to connect to the sewerage system to promote safe sanitation and health security.</p>	

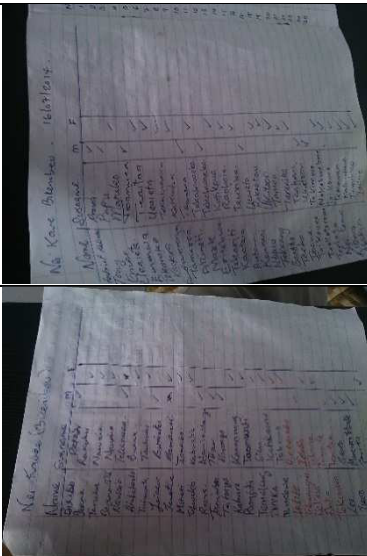
16 July 2014	Bikenibeu	Nei Kaue Maneaba	<p>Question The question on rehabilitating existing private toilet in the vicinity of the area was raised. In response to the question, the project team explained that the project will only rehabilitate sewer pipes, manholes, pump stations and saltwater system. The community Mobilisers will provide some assistance on how to rehabilitate and re-use existing toilets.</p>	
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Table Eight Summary of meetings for public consultation regarding the BEIA						
Date	Mwanaeaba	Location	F	M	Total	
14-Jul-14	Areba Omeke	Betio	35	16	51	
	Ionatia	Bikenibeu	18	6	24	
	Kawan Bairiki	Bairiki	26	12	38	
15-Jul-14	Santo Betero	Betio	16	15	31	
	Kaibangaki	Bikenibeu	5	8	13	
16-Jul-14	Santo Iotebwa	Betio	8	6	14	
	Nanamalie Bairiki	Bikenibeu	4	5	9	
	Hei Kauee	Bairiki	37	19	56	
Total			149	87	236	Average
Percentage			63%	37%	100%	29.5

#### 4.19 Narrative of Public consultation activities

- The community mobilisers arranged the meeting with local elders
- There was a community education activity involving addressing hygienic methods and activities for households and families/ communities.
- The initial presentations were given This was delivered in English addressing the screen, and then comprehensively in Kiribati by a fluent Kiribati speaker addressing the audience at the appropriate level and using the power points as a guide. A PA system was used to ensure audible levels were satisfactory
- The community mobilisers then organized more community building activity with appropriate media
- The concluding presentation was given using the slides and addressed in English and Kiribati
- Questions were invited and addressed in Kiribati by STSISP the National Water Supply and Sanitation Engineer and the Team Leader/Water Supply and Sanitation Engineer.

A good example of the questions came from Martin Tofinga MP Betio. He firstly addressed the audience and clearly asked if they had understood the presentation There was a general consensus that the presentation was understood. He followed with some questions, this prompted further questions from the audience.

Presentation and Narrative of public consultation STSISP EIA ICB 01 140724

#### 4.20 Addressing the PowerPoint criteria

Table Nine Addressing the power point slides in relation to topics required in MELAD advise		
Summary of power point slides address against the requirements as presented in communique 3/103b page 3		
Requirement		Slide addressing requirement
Detail of the project	Detail of the Project	2, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 18, 19, 20
	Where it is	2, 10, 11, 12, 19
	where it is located	2, 10, 11, 12, 19
Project Need or Justifications	Project Need / Justification	7, 8, 9, 19
	Why is it necessary	7, 8, 9, 19
Findings from EIA of possible impacts of the Project		15, 16, 17
How the impacts effect each stake holder group		20, 21, 22
What measures are proposed to minimize impacts		13, 20, 21, 22, 23, 24,
Get general view of public on the project		25, 26
Information for Documents located publically (Kiribati language)		29, 30

#### 4.21 General Photos of the events

	
140714 Betio	140714 Bairiki



140714 Bikenibeu



140717 Betio

## 4.22 Conclusion

Following this exercise, An Environmental License is requested from MELAD

Kind regards



Greg Longman  
Project Manager  
STSISP / SMEC  
72099693