

Terms of Reference:**Implement Climate-Resilient WASH Infrastructure to Primary Schools on
Marakei, Abemama and Tamana Islands in Kiribati**

This APW is requested by:

Unit:	Kiribati CLO
Division:	Division of Pacific Technical Support (DPS)

Purpose of the APW**1. Purpose of the APW**

The purpose of this project is to assist the Kiribati Ministry of Education and Ministry of Health and Medical Services (MHMS) through funding support from the WHO KOICA-funded Te Mamauri Project in implementing climate-resilient Water, Sanitation and Hygiene (WASH) infrastructure to the following outer islands primary schools:

1. **Marakei Island:** Handwashing stations for the four (4) primary schools:
- Nikierere, Rotebenua, Taiti, and Uaaboong Primary Schools
2. **Abemama Island:** Toilet blocks, rainwater harvesting systems, and handwashing stations for the four (4) primary schools:
- Abatiku, Barebutanna, Tekatia, and Tetongo Primary Schools
3. **Tamana Island** – Toilet block, rainwater harvesting and handwashing station for one (1) primary school:
- Margaret Field Primary School

2. Background

Kiribati, a low-lying island nation in the central Pacific, is among the most vulnerable countries to the impacts of climate change. Rising sea levels, saltwater intrusion, prolonged droughts, and increasingly frequent extreme weather events pose significant threats to water security, sanitation systems, and public health, particularly in the outer islands where infrastructure is limited and communities are more isolated.

Primary schools in these remote areas often lack reliable access to safe drinking water, adequate sanitation facilities, and hygiene services. These challenges are exacerbated by climate-related disruptions, which can damage existing infrastructure, contaminate water sources, and increase the spread of waterborne diseases. The absence of climate-resilient WASH (Water, Sanitation, and Hygiene) infrastructure not only compromises the health and well-being of students but also affects school attendance and learning outcomes, especially for girls and children with disabilities.

In response, the WHO, through the KOICA-supported Te Mamauri Project that is implemented by the Kiribati Ministry of Health and Medical Services (MHMS), has prioritized the implementation of climate-resilient WASH infrastructure in primary schools across the outer islands. This initiative aims for schools to become core partners in climate health resilience in outer islands and are better equipped to improve awareness and promote healthy lifestyles and behaviours to address long-term climate impacts on health.

The contractor will be responsible for assisting the MHMS in the implementation of the Te Mamauri Work plan activity 2.2.1. Implement climate-resilient WASH infrastructure in targeted primary schools on the outer islands.

3. Planned timelines

Duration:

Island	Works to be done	Duration	Timeline
Marakei Island	Handwashing stations for the 4 primary schools	6 weeks	20 October – 28 November 2025
Abemama Island	Toilet blocks, rainwater harvesting system and handwashing station for the four (4) primary schools	10 weeks	20 October – 31 December 2025
Tamana Island	Toilet block, rainwater harvesting system and handwashing station for one (1) primary school	8 weeks	20 October – 12 December 2025

- The contractor shall submit a detailed project timeline, including milestones and completion dates
- The installation should be completed within a reasonable timeframe.

4. Work to be performed.

Summary of works to be performed:

The contractor will provide all necessary materials, transport, labour, and expertise to successfully complete the main components:

1. Supply and installation of functional handwashing stations at four primary schools on Marakei Island.
2. Full construction and installation of complete WASH facilities (six-unit toilet block, rainwater harvesting system, and handwashing stations) at four primary schools on Abemama Island.
3. Full construction and installation of a complete WASH facility (six-unit toilet block, rainwater harvesting system, and handwashing station) at one primary school on Tamana Island.

Method(s) to Carry Out the Activity:

- Engage in initial discussions with the WHO Country Office and the Ministry of Education (MOE) team to confirm all requirements, timelines, and logistical arrangements.

- Prepare and submit a detailed work plan, including a schedule for procurement, shipping, and on-site works for all three islands.
- Procure and arrange for the transportation of all required building materials, tools, and equipment from Tarawa to Marakei, Abemama, and Tamana Islands.
- Liaise with school principals and community leaders on each island to coordinate site access and work schedules.
- Carry out all on-site construction and installation works as specified in the "Details of Repairs" section and the design annex.
- Ensure quality control throughout the construction process and adherence to the provided designs.
- Facilitate a final inspection and commissioning of the completed works with representatives from the Ministry of Infrastructure and Sustainable Energy (MISE) and/or MOE to ensure all facilities are fully functional and meet the required standards.

Outputs/Deliverables:

Output 1: Prepared a detailed work plan for the work to be carried out.

- **Deliverable 1.1:** Submitted a comprehensive work plan specifying the implementation schedule, logistics plan, budget, and risk management for all works on Marakei, Abemama, Tamana Islands.

Output 2: Climate-resilient handwashing facilities are installed and functional at four primary schools on Marakei Island.

- **Deliverable 2.1:** Completed the supply and installation of handwashing stations at Nikierere, Rotebenua, Taiti, and Uaaboong primary schools, with the works inspected, commissioned, and confirmed as fully functional.

Output 3: Complete, climate-resilient WASH facilities are constructed and functional at four primary schools on Abemama Island.

- **Deliverable 3.1:** Completed the construction of the WASH facilities at Abatiku, Barebutanna, Tekatia, and Tetongo primary schools, with all four sites inspected, commissioned, and confirmed as fully functional.

Output 4: A complete, climate-resilient WASH facility is constructed and functional at one primary school on Tamana Island.

- **Deliverable 4.1:** Completed the construction of the toilet block, rainwater harvesting system, and handwashing station at Margaret Field Primary School, with the works inspected, commissioned, and confirmed as fully functional.

5. Activity coordination & Reporting

The selected Contracting organisation will work under the supervision of:

Responsible Officer & Manager:	CLO KIR	Email:	wpkirclo@who.int
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6. Specific requirements

Work Experience

Essential:

- Demonstrated experience in designing and constructing WASH facilities for schools or similar structures

- Familiarity with the outer island environment, climate, and logistical challenges.
- Certifications: Relevant certifications in solar energy, electrical engineering, or renewable energy systems.
- Experience working in Kiribati including outer islands

7. Competencies

- Producing results
- Technical expertise

8. Place of assignment

The contractor is expected to work at the following locations:

- **Marakei Island:** Nikierere, Rotebenua, Taiti, and Uaaboong Primary Schools.
- **Abemama Island:** Abatiku, Barebutanna, Tekatia, and Tetongo Primary Schools.
- **Tamana Island:** Margaret Field Primary School.

9. Payment terms

1	Signing of Contract	0%
2	Provision of detailed work plan.	40%
3	Completion of deliverables 2.1 – and submission of report.	40%
4	Completion of deliverables, commissioning of project and submission of final report	20%
	Total	100%

10. Details of Repairs

The scope of this project is the construction and installation of complete, climate-resilient WASH facilities at designated primary schools across three islands.

- For the four (4) schools on Abemama Island and one (1) school on Tamana Island, the work includes the construction of a six-unit toilet block, a complete rainwater harvesting system, and handwashing facilities.
- For the four (4) schools on Marakei Island, the work consists of the construction and installation of handwashing facilities.

Component-Specific Details:

- **Toilet Block Construction (Abemama & Tamana):** The construction of one six-unit toilet block per school, as per the design in Annex 1. This includes all foundation, flooring, structural, walling, and roofing work.
- **Sanitation System (Abemama & Tamana):** Installation of all internal plumbing, and construction of a septic tank and a soak pit, according to the design specifications.

- **Rainwater Harvesting System (Abemama & Tamana):**
 - The supply and installation of a complete rainwater harvesting system as detailed in the design for the "Water Unit" (Annex 3).
 - Construction of a 3-meter high tank stand according to the design in Annex 4.
 - Supply and installation of a submersible pump to transfer water from the ground-level source to the overhead tank to ensure consistent water pressure.
- **Handwashing Facilities (All Nine Schools on Marakei, Abemama, and Tamana):**
 - The construction and installation of handwashing stations as specified in the design in Annex 2. This includes building a concrete block stand, a timber frame, a roof structure, and a dedicated drainage system.

11. Bill of Quantities (BOQ)

(Note: This list is based on the provided designs. The contractor is responsible for determining the final quantities required to complete the works as specified.)

For Toilet Block & Associated Systems (per school on Abemama & Tamana):

- Civil Works & Concrete
- Masonry
- Steel Reinforcement
- Timber
- Roofing & Cladding
- Plumbing & Sanitation
- Doors & Fixtures
- Rainwater Harvesting

For Handwashing Stations (per station):

- **Civil Works & Concrete**
 - Cement, Sand, Aggregate (for foundation and mortar)
- **Masonry**
 - Concrete Blocks (for stand)
- **Timber**
 - Timber for frame and roof structure (various specified dimensions)
- **Roofing**
 - Corrugated roofing sheets
 - Roofing nails/fasteners

- **Plumbing & Fixtures**
 - Water container (polyethene tank/drum)
 - Taps
 - uPVC pipes and fittings for drainage
 - Gravel/bolder for soak pit

For Handwashing Stations (per station): [This part of the BOQ remains unchanged]

For Rainwater Harvesting System (per school on Abemama & Tamana):

- **Water Unit & Tank Stand Construction**
 - Cement, Sand, Aggregate (for foundations and blockwork)
 - Concrete Blocks
 - Steel Reinforcement Bars (various specified diameters)
 - Timber for tank platform/roofing
 - Corrugated roofing sheets
- **System Components**
 - Large Water Storage Tank (polyethene, 5000L or as specified)
 - Gutters and Downpipes
 - First Flush Diverter system
 - Submersible pump
 - uPVC pipes, valves, and fittings for all connections

Annexes

- **Annex 1: Toilet Block Design (File: 4.1 5 UNIT + One Disability unit toilet block.pdf)**
- **Annex 2: Handwashing Station Design (File: Handwash Station - Original Design.pdf)**
- **Annex 3: Water Unit Design (File: DRW 006 WATER UNIT (Rainwater Harvesting System).pdf)**
- **Annex 4: 3-Meter Tank Stand Design (File: DRW 008 - 3 METER TANK STAND.pdf)**