



## REQUEST FOR PROPOSALS

### CONSTRUCTION OF SANITATION INTERVENTIONS (SEPTIC SYSTEMS AND TOILET PEDESTALS)

**Project:** Sanitation interventions for Watershed Interventions for Systems Health Fiji (WISH Fiji)

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**Points of contact:**

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#### 1 WISH Fiji

The Watershed Interventions for Systems Health in Fiji (WISH Fiji) is a collaboration between the Wildlife Conservation Society (WCS), Fiji National University, University of Sydney, and Edith Cowan University and is funded by the Australian Government Department of Foreign Affairs and Trade (DFAT) and by Bloomberg Philanthropies. This project seeks to assess watershed ecosystem-based and health system interventions to address the three plagues (typhoid, leptospirosis, and dengue fever) in five sub-catchments in Fiji.

#### 2 Scope of Work

The Wildlife Conservation Society (WCS) is seeking the services of an experienced sanitation engineering contractor to design, construct and commission decentralised sanitation systems in Tailevu.

In close consultation with the WISH Fiji team, the contractor will:

1. Design and size septic tanks for the selected households for all waste (greywater and blackwater) that are compliant with the AS/NZS 1546.1: 2008 standard. The only variation is that the contractor is free to use alternative appropriate septic tanks construction materials as long as they meet the standards water-tight criteria; limited to concrete cast in-situ, concrete block, or pre-molded plastic tanks. The average household size is five people hence septic tank dimensions required as per Appendix C Table C1 of the standard.

**TABLE C1  
MINIMUM SEPTIC TANK OPERATIONAL CAPACITIES IN LITRES**

Type of wastewater	Persons		Bedrooms	
	1 to 5	6 to 10	1 to 3	4 to 6
All-waste	3000	4500	3000	4500
Greywater only	1800	2700	1800	2700
Blackwater only	1500	2500	1500	2500

NOTE:  
 1 Capacities exclude cold climate effects and food waste disposal unit requirements; these need to be subject to specific design.  
 2 Local authorities may have different minimum requirements.

2. Gain the relevant approvals for construction of the septic tanks
3. Install the septic tank systems, sourcing all labour and requested materials. The septic tanks **must** be constructed compliant with the standard: AS/NZS 1546.1: 2008 (On-site domestic wastewater treatment units, Part 1 Septic Tanks) <https://www.standards.org.au/standards-catalogue/sa-sanz/waterandwasteservices/ws-013/as-slash-nzs--1546-dot-1-colon-2008>
4. Remediate the old sanitation back-ends so they no longer present a risk of overflowing or leaching into surrounding waterways. The remediation will be site specific but involve either of these two options 1) partial faecal sludge removal, safely disposing of sludge and making the back-end safe (fencing and planting) if it is greater than 30 metre distance from a waterway or 2) removing all faecal sludge, safely disposing of the sludge, filling the back-end and making safe if it is within 30 metres of a waterway. Any decisions about remediation will need to be made in consultation with the community preference and considering site conditions.
5. For each household to be connected to a new septic tank, ensure correct connections are made from front-ends toilets to the back-end.
6. Commission the septic tanks and ensure sign-off/inspections are completed as required
7. Install new toilet pedestals that are connected to the new septic tanks
8. Hand-over details of the design along with maintenance requirements to households and the WISH Fiji project team (outlined within a manual)
9. Ensure that all activities undertaken by the contractor must be compliant with relevant laws and regulations.

Annex 1 lists the sites and number of septic units to be replaced for this tender

## 2. Contractor requirements

The sanitation contractor must have at least one civil engineer assigned to the work who is currently chartered/registered with the Fiji Engineers Association. Evidence of registration or chartered status must be supplied.

## 3. Submission requirements

The following must be submitted:

- Brief technical statement outlining previous experience and capacity on constructing sanitation systems (septic tanks), including in a village context
- Approach for fulfilling the aforementioned scope of works
- Financial proposal, with a clear break-down of cost for each component listed in Annex 1. This should also show the cost for each activity (e.g. see below table)

<b>Component A – Tailevu Province</b>	
<b>Activity</b>	<b>Cost</b>
Design and construction approval	
Remediating of old back-end systems	
Installation of new septic systems	
Install new toilet pedestals	
Commission the septic tanks and manual	

Submitted rates are deemed to include all costs, insurances, taxes, fees, expenses, liabilities, obligations, risk and other things necessary for the performance of the Requirement. Any charge not stated in the Proposal as being additional, will not be allowed as a charge against any transaction under any resultant Contract. All rates and prices submitted by Proposers shall be in Fijian dollars.

## 4. Evaluation criteria

The following criteria will be used to evaluate proposals:

<b>Evaluation criteria</b>	<b>Weighting given</b>
Financial proposal	30 %
Prior experience with sanitation construction	30 %
Technical capacity of the contractor	30 %
Experience working in a rural Pacific Island context	10%
	100%

### Annex 1: location and number of septic units requiring installation

#### Component A – Tailevu Province

<b>Province</b>	<b>Island</b>	<b>Sub-catchment</b>	<b>Community</b>	<b>Septic systems needed</b>
Tailevu	Viti Levu	Dawasamu	Vorovoro	One septic tank

Tailevu	Viti Levu	Dawasamu	Nabualau	One septic tank (with capacity for two households ~10 people)
Tailevu	Viti Levu	Waibula	Nabilo	Two septic tanks (for separate households ~6 people each)