

Climate Technology Centre & Network (CTCN)
United Nations Environment
UN City, Marmorvej 51, 2100 Copenhagen,
Denmark

Re: Solomon Water- Energy Efficiency and Self-Generation Plan
CTCN request ref: 2017000039

5 September 2019

Attn: Jamie Revenaz - Webbe

Post Inception meeting Solomon Islands Water Authority (Solomon Water) requests the consideration by CTC-N for modification to the scope of the technical assistance. Two changes are requested herein for your consideration. Firstly and most significantly the timing of the project has caused the technical assistance to overlap with another donor funded project, the Solomon Islands Urban Water Supply and Sanitation Sector Project (UWSSSP) which is jointly funded by the Asian Development Bank (ADB), The World Bank (WB) and the European Union (EU). Originally the sites covered by this technical assistance and the projects undertaken under the UWSSSP were to be exclusive of each other however this is no longer apparent. 3 sites (shown in table A) which are currently to be included in this Technical Assistance will now be fully redesigned and tendered for replacement in the first quarter of 2020. Any assistance provided on these sites will not achieve the outcomes required of the Technical Assistance and a substitution is proposed. This substitution has been discussed with the contracted service provider (PwC India) at time of the inception meeting. It is expected the outcomes for the purposes of monitoring and evaluation will stay largely unchanged. Please see below for PwC's description of the proposed changes.

1. Swapping of pump stations: The response plan and TOR refers to 7 pump stations. As informed during inception meeting, SW has another project by ADB titled Urban Water Supply and Sanitation Sector Project (UWSSSP). The project aims at urban water infrastructure rehabilitation and expansion. A few of the pump station in our technical assistance overlap with the pump station selected in UWSSSP project. Solomon Water informed that the UWSSSP pump stations will go for a complete changeover in infrastructure including pumps and possibility of relocation of the pump stations. PwC, NDE and SW deliberated on the possibility of replacing the overlapping pump station with other pump stations. The list of existing pump stations and suggested pump stations is as in table A.

Table A: Pump station existing in response plan and suggested for replacement

| Pump Station Existing in Response Plan | Pump Station Suggested for replacements |
|--|---|
| Kongulai | Tuvaruhu-2 |
| Noro | Borderline |
| Tulagi | Tasahae |

The second proposed change is as an addition to the scope. The proposed addition only adds pumps to the Technical Assistance and not additional outcomes. It is expected that the nature and quality of the outcomes will stay the same and monitoring and evaluation for this addition shall be largely the same. This addition is critical to the project outcomes as it was discovered at the Inception Meeting that both Hydraulically and Electrically these pumps are inherently part of the same system. To define a system boundary that does not include the additional bore pumps could lead to an inaccurate snapshot of the system. Where the opportunity presents as it does in this case to add the interconnected bore pumps and consider the system holistically this is strongly advised.

This addition increase significantly the likelihood for positive and sustainable outcomes for Solomon Water. Please see below PwC's Description of the proposed changes

- Inclusion of bore-well pumps: The scope as per TOR and the response plan provides details of pumps installed in each pump station. With reference to which, PwC had submitted its proposal and won the TA through competitive bidding. However, during the inception mission it was observed that each pump station, in addition to supply pumps has a number of bore-well pumps associated with it, which have substantial energy efficiency potential. SW suggested PwC to cover the bore-well pumps in addition to supply pumps at pump stations. The details of pumps in as per response plan are as presented in table.

List of pumps in existing in response plan

| Sr. No. | Name of pump station | Pumps details | |
|--------------------|----------------------|---------------|--------------|
| | | Rating (kW) | No. of pumps |
| 1 | Titinge | 30 | 3 |
| 2 | Skyline | 22 | 3 |
| 3 | Tuvaruhu | 37 | 2 |
| 4 | Kongulai | 90 | 2 |
| 5 | Kwaibala | 11 | 2 |
| 6 | Noro | 37 | 2 |
| 7 | Tulagi | 7.5 | 1 |
| Total pumps | | | 15 |

The details of pump station including borehole pumps are captured in the **table**.

List of pumps requested by SW to be covered

| Sr. No. | Name of pump station | Pump house details | | Borehole pumps details | |
|--------------------|----------------------|--------------------|--------------|------------------------|--------------|
| | | Rating (kW) | No. of pumps | Rating (kW) | No. of pumps |
| 1 | Titinge | 30 | 3 | 11x2, 15x2 | 4 |
| 2 | Skyline | 22 | 3 | 11x1, 15x3 | 4 |
| 3 | Tuvaruhu-1 | 30 | 2 | | 2 |
| 4 | Tuvaruhu-2 | 18.5 | 2 | | 3 |
| 5 | Kwaibala | 11 | 2 | 7.5x3 | 3 |
| 6 | Borderline | 11 | 3 | 7.5x2, 9.2x1, 13x1 | 4 |
| 7 | Tasahae | 30 | 3 | 11x3, 9.2x1 | 4 |
| Total pumps | | | 18 | | 24 |
| Total pumps | | | | | 42 |

We appreciate your time in considering our request for changes to the above project please feel free to contact the undersigned for any further information.

Kind regards,



Adam Searancke – Project Manager
Solomon Water



Hudson Kauhiona - Director