



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF MINES, ENERGY & RURAL
ELECTRIFICATION

COMMUNITY BENEFITS SHARING PROJECT PHASE 2 (CBSP 2)

Terms of Reference
Water Supply Engineer

Position Title:	Water Supply Engineer (WSE)
Location:	Honiara
Reports to:	CBSP 2 Project Manager
Term:	18 months , potentially renewable based on satisfactory performance and project needs
Probation period:	2 months
Contract type:	Time based
Progression level:	Level 2 per the Project Operations Manual

Introduction

The Project Development Objective is to enable Target Communities to benefit from improved access to and use of basic infrastructure and services, and to operationalize the Community Benefit Sharing Fund (CBSF).

Community Benefits Sharing Project – Phase 2 (CBSP-2) is a follow-on project to CBSP Pilot (P153986) which was implemented by the Solomon Islands Government (SIG) from 2018 to 2023 with the support of the World Bank through a US\$2.8 million Japan Social Development Fund grant. The CBSP Pilot aimed to establish a benefit sharing scheme between Tina River Hydropower Development Project (TRHDP) and the project area communities. The benefits to be shared with these communities are based on an agreed-upon formula between SIG and the dam operator--Tina Hydro Limited (THL)--that will

allocate a portion of the annual revenues from the power generated by the dam for an estimated 30 years after the hydropower facility comes into operation.

The CBSP Pilot established the Community Benefit Sharing Fund (CBSF) institutional arrangements and improved access to electricity and water for selected benefit sharing communities. The CBSP-2 Project will build on and carry forward the results of the Pilot Project by extending basic services equitably to the target communities and fully operationalizing the CBSF. The CBSP-2 is estimated to cost US\$ 5 million and will run from 5 years from 2023 to 2028 and will be implemented by a Project Management Unit (PMU) within the MMERE and by Solomon Islands Electricity Authority (Solomon Power) for Component 2(c), rural electrification.

Purpose

The WSE will assume responsibility for the preparation and implementation of Water Supply Systems under the project, component 2A. The WSE is responsible for the Planning, Survey, Design and Packaging of Works and Supply contracts, monitoring and quality assurance and assist the Project Officer as the Safety Officer for CBSP. The WSE will be engaged under a consulting contract for a limited period of approximately 18 months, with possible extension on a project need basis, and possibly include support to Component 1B, scheduled to start 24 months after project start. Tasks and inputs under this subcomponent will be defined in due course.

Key Results Areas

1. Management, Quality Control, and Performance

- Responsible for the timely planning, and delivery of Component 2A (pre-identified infrastructure for water supply), and outputs and outcomes of the subcomponent.
- In liaison with the Project Manager and in close coordination with the Procurement Officer, the WSE is responsible for the preparation and packaging of works and supplies to be procured under the project component 2A
- Responsible for the final assessment of Feasibility assessments of water supply project proposals, and subsequent advice to the Project Manager
- Liaise closely with the Project Officer on the formulation of and consultations on final land use agreements.
- Liaise closely with the Project Officer on the formulation of and training in operation and management (O&M) of water supply systems by the communities.
- Responsible for the formulation and monitoring of compliance of the ESCOPs for works contracts.
- Assist the Project Officer in the performance of the projects Safety Officer, including consultation with stakeholders and management of environmental and social risks.
- Assist the Project Officer in the updating of the section of technical and related environmental and social safeguards aspects of the Project Operations Manual (POM);

- Assist the PMU in the preparation of monitoring and quality assurance planning and assist in preparation of baseline surveys (for M&E)
- Assume the role as engineer in the contract in the supervision and monitoring in the execution of implementation works

2. Operational and technical

- Confirm the feasibility study outcomes of the preselected sites
- Assess current status of WS systems implemented under the CBSP pilot project; identify technical faults and managerial issues and propose remedies under the project, such as repair and replacement of parts, materials and training in O&M
- Undertake additional feasibility studies where required
- Prepare detailed designs for the selected WS systems.
- Prepare work plans for component 2A in all aspects of preparation and implementation of WS systems
- Analyse retention capacity and assesses expected yield versus projected need of the boreholes and other water supply sources
- Undertake and review water quality testing, and suitability for drinking.
- Prepare detailed Bills of Quantities and cost estimates for the implementation of WS systems.
- Develop, review and revise as appropriate, work methods and implementation modalities to achieve highest level of quality and cost effectiveness
- Package works, supply and service contracts into bidding documents and ITQs for the procurement of materials, borehole drilling and testing and assembly and construction of water supply systems.
- Assist the Procurement Officer in the tender process and evaluation of bids;
- Procure and oversee borehole drilling, and pumping tests;
- Supervise implementation of works

3. Safeguards

- Liaise closely with the Project Officer in the screening of environmental and social risks and the preparation of Environmental and Social Management Plans, as per the ESMF.
- Manage the use of Environmental and Social Codes of Practice (ESCOPs), to be included in bidding and contract documents and completed by contractors.

4. Reporting

- Develop and update detailed six-month work-plans for the Component 2A, and as relevant other Component 2 activities.

- Provide inputs to quarterly progress reports detailing tasks undertaken, progress in relation to targets, status of work activities, financing, capacity building, issues encountered and plans for the following six-months.
- Other reports or inputs to consolidated reports, reasonably requested by the PMU, the Client, and the World Bank.

Functional Relationships

Internal

- Project Manager – CBSP2 PMU
- Project Officer – CBSP2 PMU
- Procurement Officer – CBSP2 PMU
- Other PMU staff and consultants

External

- Civil Works Contractors / Community Groups
- Service providers and suppliers
- Client representatives
- World Bank Task Team members

Direct Reports.

Positions reporting to the Consultant stated below are indicative but may vary over time and with changes in the scale or structure of the PMU operations.

- Works Contractors
- Material Suppliers
- Community Groups

Financial Delegation

- Nil

Person Specification

Qualifications

- Bachelor degree or higher diploma in civil engineering, hydrology, water supply or management or related field;

Experience

- Experience working closely with government institutions and managing lower level technical staff;
- Preferably Five (5) years of work experience design and quantification of water

supply systems, including boreholes, small dams and stream intakes, tap stands and piped distribution and pressure break tanks;

- Relevant experience with small contracting of water supply systems and borehole drilling;
- Relevant experience with procurement of civil works contracts and implementation quality monitoring;
- Experience in water management and community based Operation and Management of WS systems

Skills/Knowledge/Behaviours

- Solid understanding of community Water Supply, and development issues generally;
- Strong team leader skills and experience in coordinating design, preparation and implementation WS works, and managing technical staff;
- Excellent reporting and communication skills in the English language; Fluent Solomon Pijin, Bislama or PNG Tok Pisin
- Outcome oriented, focused and flexible

Consultant's Reporting Obligations and Outputs.

The Consultant is accountable for achieving the following Deliverables/Outputs, tabulated below. The Consultant's performance will be assessed at least annually, and before any contract renewal or end of a probation period.

Deliverables/Outputs	Schedule/Deadline
Feasibility study, water system designs and BOQ	3 Months from signing the contract
Achievement of interim- and final-result indicators related to component 2A and to relevant parts of component 2 under the project's Results Framework	Ongoing during the contract term
Quality assurance reviews of all systems, procedures, external service providers, civil / public works contracts and labour engagement arrangements	Ongoing during the contract term
Scoping of works for contracts, quantification, costing and scheduling	Quarterly, monitored monthly and aligned with the project work plan
Detailed work-plans for component 2B activities, including staff work plans	Quarterly, monitored Weekly
Detailed budgets and cost-to-complete forecasts for component 2A	Quarterly, monitored Weekly
Updating of the section of technical and related environmental and social safeguards aspects of the Project Operations Manual (POM) and the ESCOPs	As per the project results framework and work plan

Deliverables/Outputs	Schedule/Deadline
Progress reports detailing tasks undertaken, progress in relation to targets, status of work activities, cost estimates, resource inputs (measured), issues encountered and update of rolling plans for the following six-months	Bi-Annual
Works contract instructions, variation orders, determinations, payment certificates, completion certificates.	According to the deadlines and Milestones specified in the contract documents
Training of community members/O&M committee members on technical aspects of water system operation and maintenance	For all water system.
Manage the GRM process and report to the Project Office	Daily, weekly
Updated GRM incidence and resolved outcomes	As needed, immediate
Planned and reviewed safety protocols and processes	Quarterly
Contract completion report reviewing progress against objectives, key issues, lessons, and results.	One month before the contract term ends