

Proposed Budget and Timelines with Narrative

Project Activities	Year 1				Year 2			
	Q1 (Jan 2024- Mar 2024)	Q2 (Apr 2024- Jun 2024)	Q3 (Jul 2024- Sep 2024)	Q4 (Oct 2024- Dec 2024)	Q1 (Jan 2025- Mar 2025)	Q2 (Apr 2025- Jun 2025)	Q3 (Jul 2025- Aug 2025)	Total
Materials and data collection equipment procurement	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$7,000
Safety equipment for the Team Members and local staff	\$3,000				\$3,000			\$6,000
Community sensitization Workshops and Training	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$3,500
Prototype Development and Testing			\$4,000			\$4,000		\$8,000
Land use for planting		\$5,000						\$5,000
Purchase, import and installation of 5000L/day AWG			\$30,000					\$30,000
AWG and water chiller housing			\$5,000	\$5,000				\$10,000

building construction								
Data Collection and Analysis	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$10,500
Public Awareness Campaigns	\$1,000	\$500	\$500	\$500	\$1,000	\$500	\$500	\$4,500
Local travel	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$3,500
International travels	\$5,000				\$5,000			\$10,000
Dissemination via Journals			\$3,000			\$3,000		\$6,000
Dissemination via international conferences		\$5,000			\$5,000			\$10,000
Total	\$12,500	\$14,000	\$46,000	\$9,000	\$17,500	\$11,500	\$4,000	\$114,500

Funding support already received			
Funding source	Funding amount [\$] (excl. VAT)	Year in which funding received	Description of what the funding was / or will be, used for
University of Sierra Leone	\$20,500	2023	Office equipment, Use of University official vehicles, Staff time, lecture theatres for workshops
Njala University	\$20,500	2023	Office equipment, Use of University official vehicles, Staff time, lecture theatres for workshops
Industry Partners	\$29,500	2023	Technician salaries times 2 technicians, mobile power bank/generator for location with limited power availability, Draughtsman
Total	\$69,500		
Total Budget Requested	\$45,000		

NARRATIVE

Budget Motivation

Project Budget Summary

The project is expected to run for around two (2) years and the budget is given in the budget table. The budget summary indicates the total cost of running the project, to include cost of travel, accommodation and cost of equipment use. These various cost items are motivated herein.

Disbursement phases

The budget is designed into 7 phases of 3 months each. The NSTIC and any other governmental and nongovernmental agencies supporting this project can disbursement funds in each phase as per the totals per phase given in the budget table.

Staff time

The team comprises 10 participants who are all Academics with duties associated to their respective roles at their Universities. These Academics will devote time and effort to the project at a cost to their respective Universities.

Cost of equipment and materials

Some equipment used to examine and collect data at the installation site will need to be bought. For instance the team will need a thermal imaging camera that captures precision changes in temperature at the demonstration site, a testo pocket vane anemometer for measuring air flow velocity and others. In addition, some farming tools, boots, gloves and other materials will be required.

Community sensitization event

As part of the Government's policies, communities and stakeholders will need to be updated and motivated to support the project.

Proctoring and testing

Close collaboration with local industry partners will facilitate the development and manufacturing of the water chilling model. Where facilities and technical capacity is not available in Sierra Leone the international industry partner will build the water chiller model in South Africa for installation at the demonstration site.

Purchase and installation of an AWG

The international industry partner, GEM Water, is a manufacturer of a model atmospheric water generator in South Africa. This system condenses water from the air at the location it is installed and can generate up to 1000L of drinking grade water per day. This will be used in the water chiller and for irrigation allowing the team to demonstrate to Sierra Leone the potential of growing more than one yield per year.

Data collection and analysis

From its launching date members of the team will make regular trips to the demonstration site to collect data for their respective roles on the project. For instance Prof Felixtina Jonsyn-Ellis and Mr. Mohamed Dumbuya will collect soil samples from different parts of the demonstration plots for microbiological analysis and contaminants determination, respectively.

Public awareness campaigns

The team will make use of facilities such as national media, TV and social media platforms to inform the government and the general public on the progress, gains, lessons, challenges faced and benefit of the project to the country and its people.

Local travels

This project covers an important area of national interest, which is food security. Thus the team will travel extensively locally to various parts the country for feasibility studies, data collection, awareness campaigns and building critical stakeholder support.

International travels

Team members will make some international travels as part of this project. For instance, some test works may have to be done in South Africa such as at the state of the arts lab facilities of the University of Johannesburg. Furthermore, Prof Kallon in South Africa will also need to travel to Sierra Leone from time to time to render consultancy services on the project.

Dissemination via journals, conferences and books

This will form an integral part of the project, as findings at all stages of the project will be reported to the scientific and scholarly world via peer reviewed journals, accredited conference proceedings, book chapters and books as the case may be.

Alternative funding sources

The participating institutions will make contributions to the success of the project in kind. For instance staff time will be covered, the institutions will make available their buildings and lecture theatres as host venues for some events, official vehicles will be made available to team members for local travels with petrol cost covered, etc. The Team will also organize fund raisers to generate more income to cover other cost of the project not covered by the NSTIC.