



Final project report about the
Installation of a
SoWaDis system
(Solar water disinfection)
and the infrastucture
for the water supply
on the Campus of
Child Support Tanzania (CST), Mbeya

through
waterkiosk Tanzania SW

sponsored by
Tareno Global Water Solutions Fund
Basel, Switzerland
and
waterkiosk foundation
Switzerland

Davos, 29.12.2022

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1. The waterkiosk foundation

The foundation was founded in 2011 under the name SwissWaterKiosk Foundation and renamed waterkiosk foundation in 2014. The waterkiosk foundation is tax-exempt in the Canton of Zurich (domicile). Further information at <https://www.waterkiosk.org/en/>

Our values and vision

We understand values as ideals by which we live and act.

- Respect: We respect people and the environment
- Responsibility: We think and act responsibly
- Pragmatism: We implement effective solutions efficiently

We share responsibility for achieving Goal 6 of the United Nations Sustainable Development Goals (SDGs) - Agenda 2030: "Ensure the availability and sustainable management of water and sanitation for all".

- waterkiosk enables safe access to clean drinking water for schools, hospitals and villages
- waterkiosk turns those affected into stakeholders
- waterkiosk contributes to a sustainable improvement of the quality of life

Activities in Tanzania

Our activities are concentrated in Tanzania and have two focal points; on the one hand, the regions of Moshi and Rombo in the north-east of the country, where a local organisation Waterkiosk Foundation Tanzania (WKFT) has been active for some time, and on the other hand, since August 2019, the region of Mbeya in the south-west, where there is a cooperation with the Moravian Church of Tanzania South-West Province.

2. Fact sheet

Name of the project		Child Support Tanzania (inclusive School), Mbeya: Installation of a SuWaDis System
Project number		22/0
Location type		CST INCLUSIVE SCHOOL, Mbeya
Coordinates		-8.9189677,33.3847642,159
Place		Mbeya rural
Distance from Mbeya office		ca. 12 km
Initial situation		<p>Text from the homepage https://childsupporttz.wordpress.com/about/ <i>Child Support Tanzania (CST) was registered on 27th May 2008, with Registration No: OOONGO00002151 as a National wide non-governmental, voluntary, and non-profit making organization Established under the NGO's laws of Tanzania. Was founded by Noelah Msuya Shawa, who is a specialist in teaching children with disabilities/special needs, under her leadership and expertise the organization is working hard to ensure children with disabilities/special needs are receive all support services essential to enable them access quality Education in an Inclusive setting We are now working with more than 175 children in our Inclusive Early Childhood Assessment, Learning and Development Center (ECALD).</i></p> <p><i>The school dedicated to provide a nurturing environment for crucial early learning and development to the children with disabilities and the under privileged children in Tanzania.</i></p> <p>The school currently consists of three classes. The existing buildings (classrooms, kitchen and multi-purpose room) were built over the last four years. Further classrooms with the necessary infrastructure are under construction.</p> <p>The whole project is built by various sponsors. The architectural office "Article 25 - Charity" London is leading the planning and implementation of the buildings.</p>
Planned change		<p>Currently, water is supplied to the entire school via the public water supply. A central location for the water supply of the whole school is to be built on the highest point of the school grounds. The construction of a platform is planned here. For the beginning, a tank with a volume of 5000 litres is to be placed on it. On a second platform, about a two metre lower, waterkiosk will build the SoWaDis system with a 1000 litre tank for safe water. From this tank, three easily accessible supply points near the classrooms (opposite the sanitary facilities) will be supplied with safe water. A tap that is as stable and easy to use as possible is to be installed.</p> <p>At a later date (or as soon as a sponsor can be found), the school plans to drill a 100m deep borehole to develop its own water supply. A current quotation must be obtained for this.</p> <p>A building for administration and one for therapies, including a therapy pool, will also be built on the site at a later date.</p>
Number Beneficiary		200 including staff members
Period	Planning	Till September 2022
	Construction	October / November 2022
Executing partner		Child Support Tanzania, "Article 25 -Charity"-Architecture

3. Final project accounting and comment

Tab. 1: Settlement of construction and material costs

Cost for material and construction of the SoWaDis System and the water distribution on the Campus Child Support Tanzania			
S/L	PARTICULAR	BUDGET TZ	FINAL INVOICE
	Buildings platforms and tap station		
	Construction material	7'199'000	7'517'500
	Labour costs	5'360'000	4'991'500
	Total buildings and labour costs	12'559'000	12'509'000
	SoWaDis system		
	One system	3'800'000	3'800'000
	Plumbing material and polytank		
	Polytank 5000 l	1'500'000	1'500'000
	Plumbing material	1'967'000	1'944'000
	Total plumbing material and polytank	3'467'000	3'444'000
	Cost for supervisor WKF	1'250'000	1'250'000
	SUMMARY		
	Total buildings and labour costs	12'559'000	12'509'000
	SoWaDis System	3'800'000	3'800'000
	Total plumbing material and polytank	3'467'000	3'444'000
	Cost for supervisor WKF	1'250'000	1'250'000
	TOTAL COST	21'076'000	21'003'000

Comment on accounting:

Normally, we limit ourselves as Waterkiosk with the installation of the SoWaDis system and the necessary infrastructure at our customers.

With CST, the initial situation was somewhat different. The water supply planned by the planning office article 25, London had not yet been set up yet. CST lacked the financial means to do so. The realisation of this school, which is special for Tanzania, is based on private donations.

After receiving the offer for these buildings, I decided as project supervisor that these parts should be financed by Waterkiosk. Thus, the two additional platforms could be built. This prepared the ground for the future water supply of the school grounds and the Waterkiosk team was able to build the SoWaDis system. In addition, the existing sanitary facilities underwent an overhaul and the rainwater harvesting tank was integrated into the water supply system for the wash rooms.

The settlement of the project results in expenses of TZS 21 million, which is equivalent to about CHF 8375. Of this amount, our sponsor "Tareno Global Water Solutions Fund" contributes CHF 6000. The remaining amount is covered by the waterkiosk foundation.

4. Foto report on the construction of the SoWaDis system and the water distribution on the Child Support Tanzania Campus



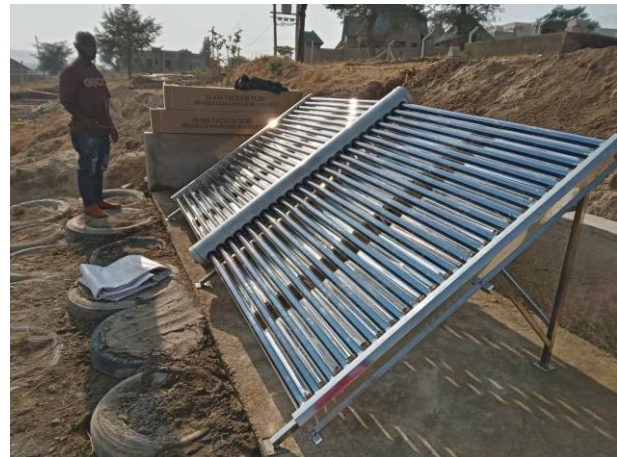
Site on which the water supply will be built; foreground: existing rainwater tank



Site inspection for the construction of the platforms



Platform for the SoWaDis system



The SoWaDis system is ready for connection



SoWaDis system safewater tank and in the background the rainwater tank



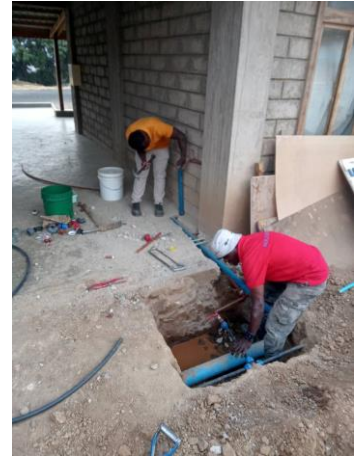
Large platform for the two water supply tanks



The first tank with 5000 litres is ready



The new platform for the rainwater tank is being built



Preparatory work for the drinking water tap station



The tapstation is covered with Tarazzo plaster



The children enjoy the safe drinking water

5. Project report

Summer 2021	First contacts and visits to Child Support Tanzania (CST) by project coordinator Moses Krom
9. May 2022	First visit of waterkiosk team and the project supervisor on the CST Campus. Picking up information's on the project request shit.
19. May 2022	Planning and preparing on budget and MoU
20. May 2022	Meeting with Noela Msuja, Director CST, Mahdi Abul, Architecture to get the information from the school and to shear the ideas for the planning
21. May 2022	Budget was sent to Noela and Mahdi
05. July 2022	The project proposal is prepared and sent to Noela
28. September 2022	The new drilling quotation for the borehole comes in (project for 2023)
29. September 2022	Visit on the CST Campus to fix up the possible settings for the project together with the school leaders and Mahdi (on phone call)
01. October 2022	Drawing sketches for planning the different platforms
12. October 2022	The first plan for the construction of the SoWaDis platform arrives. Preparing sketches for the main platform and the rainwater harvesting tank
17. October 2022	Visit to the site to meet the constructor and to pick up the details for planning the other platforms. Arranging the quotation for the construction of the SoWaDis platform

19. October – 20. November 2022	<p>Start of construction for the SoWaDis platform. The cost estimate for the other platforms is available and the overall budget is adjusted.</p> <p>The other platforms are created and the SoWaDis system is built. The trenches for the water supply pipes are dug. The SoWaDis system is connected and supplies the school with treated drinking water. The newly constructed drinking water station is available to the children.</p> <p>The separate water supply for the toilets is constructed and the tank for collecting rainwater is included. The connections in the toilets are checked and repaired where necessary.</p>
21. November 2022	<p>The construction of the water supply system for Child Support Tanzania has been completed. The children and the staff have access to safe drinking water.</p> <p>The presentation board that is still missing will be ordered and installed at a later date.</p>

6. Application

We apply to «Tareno Global Water Solutions Fund» to cover the project costs for the the installation of a SuWaDis system in the CST INCLUSIVE SCHOOL of Child Support, Mbeya, in the amount of CHF 6000.

The Waterkiosk Foundation Switzerland would like to take this opportunity to thank TARENO AG for their contribution to the establishment of a safe water supply at the project site of CST, Mbeya.

The construction of a borehole is planned for 2023. If possible, the pump for pumping water is to be powered by solar electricity. This will make the school less dependent on the public water supply.

Should TARENO AG be interested in further financial support for this or other Waterkiosk projects, we would be happy to inform you with the relevant project documentation.

The Supervisor for the Tanzania SW projects and member of the Foundation Board



Christopher Wellauer