



Final project report about the  
Installation of a  
SoWaDis system  
(Solar water disinfection)  
on the Campus of  
OSWE Girls High School, Tanzania

through  
waterkiosk Tanzania SW

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

Davos, 19.12.2023

# Content

- 1. The waterkiosk foundation ..... 3
- 2. Fact sheet..... 4
- 3. Project accounting and comment..... 5
- 4. Foto report on the construction of the SoWaDis system and the water distribution on the Oswe Girls High School Campus ..... 6
- 5. Project report..... 9
- 6. Application ..... 9

## 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

<b>Name of the project</b>	Oswe Girls Secondary School, Installation of a SuWaDis System	
<b>Project number</b>	23/027	
<b>Location type</b>	School in rural area	
<b>Coordinates</b>	-9.1795052, 32.8642362	
<b>Place</b>	Ihanda, Songwe Region, rural area, Tanzania	
<b>Distance from Mbeya office</b>	ca. 84 km	
<b>Initial situation</b>	<p>Oswe Girls' Secondary School is a boarding and day school with around 600 students. The school has Form 1-4 classes. This means, there are students from Form One, Form Two, Form Three and Form Four. In the Tanzanian school ranking, it is ranked at 216</p> <p>This school started to operate since 24 January 2012. It is located close to the main road from Mbaya to Tunduma (border crossing to Zambia).</p>	
<b>Planned change</b>	<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 5'000 litres is to be placed on it. On a second platform, about a two metre lower, waterkiosk will build the SoWaDis system with a 1'000 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 100 m 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>	
<b>Number Beneficiary</b>	< 600 including staff members	
<b>Period</b>	<b>Planning</b>	August 2023
	<b>Construction</b>	September 2023 first SoWaDis system, October 2023 addition of a second system

### 3. Project accounting and comment

The costs for the infrastructure buildings are borne in full by the institution.

All materials for the piping to and from the SoWaDis facility (all water piping and installation costs) will be borne by waterkiosk or its sponsor. The sponsoring of the SoWaDis facilities is charged at a flat rate per facility.

Flat-rate costs for construction of the SoWaDis System		
PARTICULAR	BUDGET	FINAL INVOICE
SoWaDis system		
for one system CHF 6000.00	<u>6'000.00</u>	<u>12'000.00</u>
<b>SPONSORING FOR OSWE GIRL'S HIGH SCHOOL</b>		
Costs carried by TARENO AG		10'000
Costs carried by waterkiosk foundation		<u>2'000</u>
TOTAL		<u>12'000</u>

#### 4. Foto report on the construction of the SoWaDis system and the water distribution on the Oswe Girls High School Campus



Starting point for the school's water supply: centralised tanks supplied with water from the borehole. The two SoWaDis systems obtain the raw water from here.



In the background:  
the platform after the first stage with one SoWaDis system.  
In the foreground:  
the central tank for safe drinking water with a capacity of 2000 litres.



The platform extended with two SoWaDis systems.



Students at the tap station in the classroom area and ....



.... headmaster Christopher Mbela next to the tap station near the dining hall.



Assembly of female students as part of the official handover of the waterkiosk system to the school. Speech by headmaster Christopher Mbela.



Above: Fred Kalinga, who is responsible for managing the SoWaDis system, receives the official waterkiosk T-shirt from project coordinator Henry Joctan, and he wears it with a certain pride.

Left: Project coordinator Henry Joctan next to headmaster Christopher Mbela and Fred Kalinga.



Below: waterkiosk employees Gift Eman Kibona and Baptista King'ung'alo (left and right) headmaster Christopher Mbela, Fred, waterkiosk Project Supervisor Christopher Wellauer



## 5. Project report

4 May 2023	The WKF project coordinator got the contact details of the owner of Oswe Girls High School (Mr. Amos M. Mogha) from Mr. Charles Chenza, who's the chairman of the TCCIA-Songwe Region (Tanzania Chamber of Commerce, Industry, and Agriculture) and co-owner of Wiza High School.
7 May 2023	The WKF project coordinator contacted the school owner (Mr. Amos Mogha) to give highlights about WKF services and booked an appointment to visit the school site as well as meet his managerial staff (head of school and school manager) for planning, site assessment and taking sample water for testing.
22 May 2023	The WKF project coordinator and Baptista visited the school compound for a final discussion with the school owner, deputy head of school, and school manager on how to implement the project, including cost analysis, assessment, water testing, and handling over a sample MoU.
24 May 2023	Planning and preparing the budget
25. May 2023	The budget and water test results were sent to the school owner, Mr. Amos Mogha.
18 July 2023	The WKF project coordinator followed up with the school owner to understand their plan for the project; they were still preparing the fund for the project as they were depending on school fees and a loan from CRDB.
05 August 2022	The WKF project coordinator invited the owner and his managerial staff to visit our booth at Nane-Nane Ground or an event to learn more about how the system works, etc.
16 August 2023	The WKF project coordinator followed up with the school owner, and he asked for our technical team to visit the site in order to meet with their team for the construction plan.
18 August 2023	The WKF technical team visited the school to meet with their team to set up the project plan and construction plan/measurements.
21 August 2023	MoU signing
24 August 2023	Reviewing the site plan for starting the installation: platforms, areas spotted for tap stations, and tank set-ups.
02 September 2023	Finalizing the installation and reviewing the setbacks and areas needed to be worked on.
08 September 2023	Testing the water flow and allowing water to flow to the tap-stations for use.
28. September 2023	Visit to the school for the official opening of the plant. Handover of the system to the school and its headmaster Christopher Mbela. As one SoWaDis system is not sufficient to cover the water demand, the construction of a second system is discussed and planned.
4./5. October 2023	The second SoWaDis system is installed and connected on the extended platform.

## 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 OSWE Girl's High School, Ihanda, Tansania in the amount of CHF 10'000.

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 SWE Girl's High School.

Should TARENO AG be interested in further financial support for 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