



REPUBLIC OF KENYA



# WEEKLY Newsletter

December 02-08 2023

## KEWI joins hands with WaterKiosk Africa/ Boreal Light GmbH and County Government of Baringo



*From left: KEWI CEO Dr. Leiro Letangule, Baringo County Governor Benjamin Cheboi, EGH, CEO Boreal Light Dr. Hamed Beheshti and Managing Director WaterKiosk Africa Mr. Samuel Kinyanjui.*

BY: PIUS KIMANI

**D**r. Leiro Letangule, KEWI CEO on behalf of the Institute has signed a Memorandum of Understanding (MOU) between Waterkiosk Africa/Boreal Light GmbH and The County Government of

Baringo that has outlined a series of collaboration aspects between the 4 entities.

The event which took place in Baringo county is set to establish and strengthen a framework of collaboration between the 4 entities in matters clean drinking water supply/distribution, water pumping,

### HIGHLIGHTS

- 2 KEWI joins hands in a MoU signing.
- 3 Institute hosts a training on Rain-water Harvesting.
- 5 Chiakariga Campus hosts a sanitation training
- 6 KEWI floats tenders as it routes for accelerated improvements.

# KEWI joins hands with WaterKiosk Africa/ Boreal Light GmbH and County Government of Baringo



capacity building/training, knowledge and technology transfer and mitigating climate change among other key areas.

In an elaborate document that has outlined specific mandates to be discharged by each entity as a contribution towards making the MOU work, water access strengthening, clean drinking water supply, knowledge and technology transfer, implementation support and local engagement, technical and water quality support have been outlined as the key areas of interest that will define the progress of the MOU.

The document further states that detailed information, obligations, and

specifications related to the areas of collaboration outlined will be elaborated further in a separate Memorandum of Agreement, once a committee that will oversee the implementation of the MOU is appointed.

According to the MOU, KEWI in collaboration with WaterKiosk Africa and

the County Government of Baringo will offer its technological know-how. This will involve providing advice on the planning and execution of water infrastructure, providing suggestions for maximising system effectiveness, and resolving any technical issues that may come up throughout the project.

The institute will further offer water quality support through monitoring and assessing water quality parameters, contribute to research and innovation efforts related to water desalination and quality management and provide insights into compliance requirements, helping to streamline permitting processes, and ensuring that

the project aligns with local and national regulations.

The non-exclusive agreement and whose provisions are governed by, constructed, and enforced in accordance with the laws of the Republic of Kenya, became effective after signing and shall be valid for a period of Five renewable (5) years through a written mutual consent or as agreed by the parties.

WaterKiosk Africa, an associate of Boreal Light GmbH Company that specializes in renewable energy solutions for water treatment plants installs, runs, and maintains solar water desalination systems for off-grid and Arid and Semi-Arid communities across Africa.

Boreal Light GmbH, a Berlin-based company creates and produces low-cost solar water desalination systems that provide high-quality drinking, irrigation, sanitation, and fish farming water from any type of highly salinized and contaminated water source for off-grid communities worldwide.

# Institute hosts a Training on Rainwater Harvesting



*A group photo of participants led by KEWI CEO Dr. Leiro Letangule, Gansu Academy for Water Harvesting President Prof. Dr. Chen Wen and National Water Harvesting & Storage Authority Ag. CEO Eng. John Muhia.*

**BY: SIMON NDEWENI**

In a landmark collaboration between the Gansu Academy for Water Conservancy and the Kenya Water Institute (KEWI), a comprehensive Training Workshop on Rainwater Harvesting (RWH) is currently underway at the Kenya Water Institute in Nairobi.

The training that was officially opened by KEWI CEO Dr. Leiro Letangule, is sponsored by the Ministry of Science and Technology of the People's Republic of China, and has drawn participants from key water agencies within the Ministry of Water, Sanitation, and Irrigation, as well as

representatives from various County Governments.

The Ag. Chief Executive Officer National Water Harvesting and Storage Authority

Eng. John Muhia who was present during the opening, in his remarks, said that rainwater harvesting is a collective effort and requires the involvement of all stakeholders ranging from government bodies, educational institutions, non-state actors and individual citizens.

In attendance was also Prof. Dr. Chen Wen, President, Gansu Academy for Water Harvesting, who appreciated China Ministry of Science and

Technology's decision to sponsor Gansu Academy for Water Conservancy to organize this Workshop in Kenya.

"Gansu Academy for Water Conservancy will elaborately organize the workshop, earnestly introduce our experience, and continually improve quality of training, so as to share our experience with Kenya, make our contribution for development of rainwater harvesting for mitigating water shortages, promoting rural development." He said.

The timing of the workshop proves impeccable as Kenya continues to grapple with widespread floods caused by extreme rainfall events. The emphasis on Rainwater

# Institute hosts a Training on Rainwater Harvesting

Harvesting arises not only as a solution to mitigate flooding but also as a sustainable strategy for water resource management, particularly in arid regions.

The multifaceted training program covers an array of crucial topics. It begins with a global perspective—an exploration of RWH development worldwide and its prospects. Participants are then introduced to Rainwater Harvesting in China, gaining insights into structural design, dimensioning of RWH systems, and the agricultural approach to RWH and integrated watershed management, featuring insightful field visit videos.

The workshop further delves into water-saving and improved irrigation

technologies for RWH, guiding the construction, operation, maintenance, management, and institutionalization of RWH systems. International experiences, such as the German perspective on urban RWH systems, add a valuable global context.

As part of the workshop, participants are having the unique opportunity for a firsthand field visit to various RWH projects, enriching their practical understanding.

The workshop also features a brief introduction to the RWH demonstration project in Kenya, emphasizing the



*Prof. Dr. Chen Wen, President, Gansu Academy for Water Harvesting.*

practical application of the learned concepts. The grand finale includes participants' presentations, fostering a platform for experience exchange and appraisal.

This ongoing training workshop signifies a critical step towards sustainable water management in Kenya, equipping professionals with the knowledge and tools needed to address water challenges and build a resilient future.

## QUOTE OF THE WEEK:

*"Make sure you're not just waiting for someone to fix things, or hoping that things will improve...Figure out what's going on and make a plan to improve things."*

*-Kenneth W. Thomas.*



*KEWI CEO Dr. Leiro Letangule during the official opening of the training.*

# Training of Public Health Promoters, Manual Pit Emptiers and Farmers in Chiakariga Campus.



*Public Health Promoters, Manual Pit Emptiers and Farmers in a group Photo at Chiakariga Campus.*

BY: KORIR KIPKIRUI

**K**enya Water Institute through support of African Development Bank (AfDB) conducted sanitation training on Green Toilet System Technology.

The sanitation training was aimed at protecting public health by rendering wastewater biologically safe and/or by isolating it from human contact and from drinking water supplies.

Apart from protecting public health wastewater management systems are also intended to protect the environment. The GTS is not just a toilet, but a complete system to handle the whole sanitation process. The main toilet technology for this system is a urine-diverting dry

toilet (UDDT), which allows urine and faeces to be separately stored.

Speaking after the training that brought together largely the manual pit emptiers and farmers, the head of the training program from KEWI Ms. Beatrice Langat noted that the program was very essential as it was not only hugely contributing to improving sanitation coverage but also addressing other critical issues like improving farming practices.

“The participants have demonstrated the level of acceptability of this technology particularly the use of GTS products, fertilizers by the farmers as we are recovering resources such as the nutrients for agricultural use” she said.

However, several glaring shortcomings hinder the adaptation. One such challenge is the proper use of UDDTs facilities, and users were educated and trained on how to correctly utilize the technology to maximize its benefits.

The training aimed at imparting the technology of separating the faecal matter and urine and at the end use humanure in our farms and create entrepreneurial opportunities to the youth.

# KEWI Floats Tenders as it Routes for Accelerated Infrastructural Improvements

BY: PIUS KIMANI

**K**enya Water Institute (KEWI) is set to improve infrastructural outlook of some of its major buildings within the Main Campus and some in satellite campuses and ultimately enhance the delivery of its services. This is after it floated a series of tenders for the improvement of its key facilities within the institute.

In an advertisement placed in a Government Publication *MyGov*, KEWI has invited eligible and interested candidates to apply for several tenders that include but not limited to, Tender for proposed renovation (conversion of hostel rooms to offices) and demolition of 2 prefabricated houses at Kenya Water Institute, Tender for proposed removal, disposal and replacement of the existing asbestos roofing materials and Tender for proposed refurbishment of workshops and lecture room blocks all at Kenya Water Institute - Main Campus, Nairobi.

The tenders have been floated at a time when KEWI is going it's all lengths to ensure that it has modernized its infrastructure, and route for provision of more across its campuses so that it can align its service delivery with the increasing demand for space

that would help it deliver its core mandate of training research and consultancy in a more strategic approach.

KEWI has recently warmed up to the attention of its parent ministry, Ministry of Water, Sanitation and Irrigation with the indefatigable Chief Executive Officer Dr. Leiro Letangule aggressively lobbying for more attention in terms of partnerships, financial and infrastructural support to help move the institute to the next level and deliver on its strategic and unique mandate within the water sector.

In detailed manner, the successful tenderer whose tender will be determined to be the Lowest Evaluated Tender will have to carefully pull down and remove existing Clay tiles roofing cover and existing asbestos roof covering and including all accessories and disposing off the arising waste material as per the National Environment Authority and work place /occupation health and safety (OSHA) regulation, make good disturbed surfaces and cart away debris.

The winner will also carefully demolish and remove existing worn out rain water gutters among other range of activities entailed in

the tender documents.

The institute has further floated tender for provision of cleaning Services at the Water Resource Centre Building at the Main Campus, Nairobi, tender for proposed completion of the irrigation block at Kenya Water Institute - Chiakariga Campus and tender for provision of Security Services for Kenya Water Institute Main Campus in Nairobi and its campuses in Kitui, Kisumu and Chiakariga.

The tenders whose eligibility is open and whose bid security value vary have Wednesday 13th December, 2023 at 10.00a.m as the mandatory site visit day apart from the one for completion of the irrigation block at Kenya Water Institute - Chiakariga Campus which will be on Thursday 14<sup>th</sup> December, 2023 at 10.00 a.m.

Eligible applicants have not later than 10.00 am on Monday 18<sup>th</sup> December, 2023 to drop their duly completed tender documents, sealed in plain envelopes and marked with tender names and numbers at KEWI Main Campus. Tender documents can be downloaded free from the Institute's website [www.kewi.go.ke](http://www.kewi.go.ke) or PPIP Portal, [supplier.treasury.go.ke](http://supplier.treasury.go.ke).

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*KEWI Governing Council Members and some of the Members of the Management Team during an induction that was held at Lake Naivasha Resort in Nakuru County.*



### Long - Term Programmes

Diploma in Water Engineering Technology (DWET) Diploma in Wastewater  
 Diploma in Water, Sanitation Engineering Technology (DWSET)  
 Diploma in Water Resources Management Technology (DWRMT)  
 Diploma in Irrigation and Drainage Engineering Technology (DIDET)  
 Diploma in Information Communication Technology (DICT)-KNEC  
 Diploma in Water Laboratory Technology (DWLT)  
 Certificate in Wastewater and Sanitation Engineering Technology (CWSET)  
 Certificate in Water Resources Management Technology (CWRMT)  
 Certificate in Information Communication Technology (CICT)- KNEC  
 Certificate in Water Laboratory Technology (CWLTL)  
 Certificate in Water Engineering Technology (CWET)  
 Drilling Operations and Management (DOM)  
 Plumbing and Pipe Fitting (PPF)  
 Water Operators Course (WOC) in:
 

- Water Supply
- Meter Reading
- Sewerage Operations

### Short - Term Programmes

Use of Earth Observation Tools and GIS for Water Resources Management  
 Entrepreneurship and Financial Management for Water Managers  
 Operation and Maintenance of Water Supply Networks  
 Metering and Installation of Water Supply Networks  
 Leak Detection & Repair techniques  
 Drilling Operations and Management (DOM)  
 Operation & Maintenance of Pumping Stations  
 Pump Selection, Installation and Maintenance  
 Plumbing, Pipe Fitting and Solar Water Heating  
 Instrumentation for Water and Wastewater Systems  
 Water Governance, Management and Technology  
 Application of GIS for Water Utilities Mapping  
 Drilling Operations and Management  
 Water Quality Sampling and Testing  
 Microbiological Water Quality Assessment  
 Integrated Water Resources Management  
 Non-Revenue water  
 Water Management  
 Customer Care

## Vision

A Technical Centre of Excellence in Training, Research, Innovation and Consultancy in the water, Sanitation and Irrigation Sector.

## Mission

To offer Competency-Based Training, Research, Innovation, Consultancy and Outreach Services in the Water, Sanitation and Irrigation Sector for sustainable development.

## Core Values

Good Corporate Governance  
Professionalism  
Customer Focus  
Innovativeness  
Inclusivity  
Patriotism  
Integrity

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## OTHER SERVICES OFFERED

Water Quality Laboratory Services  
Drilling and Test Pumping Services  
Ground water Assessment Services  
Conferencing Services  
Troubleshooting of pumps boreholes and distribution systems  
Repair of pumps boreholes and distribution systems

Your feedback is crucial for our improvement



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Kenya Water Institute



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