ERB Newesletter.

August 31,2025





Tanzania pushes for Green infrastructure to combat climate change in Cities

Readers note:

Dear Readers,

Welcome to this edition of the ERB Newsletter. We are proud to share the milestones and initiatives shaping the engineering profession in Tanzania. This August, a key highlight was hosting the Instructor Training Course for Engineering Practitioners at our School of Professional Engineers and Leadership (SoPEL) in Morogoro, aimed at strengthening knowledge transfer within the profession. Thank you for being part of this journey.

Warm regards

Eng. Bernard Kavishe

Registrar, Engineers

Registration Board (ERB)



IN THIS NEWSLETTER

Tanzania pushes for Green infrastructure to combat climate change in cities

ERB Launches Instructor's Course to Bridge Technical Knowledge Gap

Contractors Award President Samia for Elevating the Construction Sector

ERB Enhances Engineering Awareness at Nanenane 2025

ERB to Host Second Run for STEM







Tanzania pushes for Green infrastructure to combat climate change in Cities

DAR ES SALAAM – A new focus on "green infrastructure" is emerging as a solution to the growing challenges of climate change in Tanzania's rapidly expanding urban centers.

Speaking at the 11th Annual International Conference on Infrastructure Development and Investment in Africa, Eng Bernard Kavishe, Registrar and CEO of the Engineers Registration Board (ERB), delivered a keynote speech highlighting the urgent need for a fundamental shift in how cities are designed and built.

Kavishe addressed two major human-made crises in Dar es Salaam which are urban heating and flooding. He emphasized that for too long, policies and collective wisdom have treated climate change as an unavoidable, natural phenomenon. He argued that the escalating climate crisis in urban areas is largely a result of human actions and is therefore manageable and avoidable through intentional design choices.

A significant portion of the talk focused on the "urban heat island effect," where cities become noticeably warmer than their surrounding rural areas. This is a direct consequence of replacing natural vegetation and

water bodies with dry materials like roads, buildings, and parking lots, which absorb and re-emit heat, creating a heat sponge.

He said among the intervention are Planting trees and vegetation throughout the urban landscape together with Creating green roofs and using cool pavements to reflect solar energy.

"Here in Dar es Salaam, we are witnessing this transformation firsthand, a second wave of urban heating. The city center is expanding, and areas like Kinondoni, Sinza, Msasani, Oysterbay, and Ilala are rapidly replacing their traditional one-storey buildings with taller, multi-storey structures. (crucially), this expansion is happening within the same plot sizes, and along the same street widths that were originally designed for low-rise developments.

This trend, driven by market forces and population growth, is set to continue. More surfaces are paved or covered with these new, taller buildings, the effect on our urban climate is profound.

Continue on page3



Photo:ERB Registrar addressing the 11th Annual International Conference on Infrastructure Development and Investment in Africa, members in Dar es salaam





Continue from page2

So, what are the interventions? For Dar es Salaam, this means we cannot simply allow development to proceed unchecked within outdated frameworks.

We must recognize that the current pace and pattern of expansion, particularly the vertical growth in areas like Oysterbay, Msasani, Kinondoni and Sinza, without accompanying infrastructure and green space planning, is intensifying our heat island effect. Our planning must be one step ahead of market forces. We must redesign these rapidly densifying areas to cope with this change in structure.

It's about a holistic approach to urban design. It's about implementing "smart growth" principles: fostering mixed land uses, creating walkable neighborhoods, preserving and creating vital open and offering a variety of transportation choices.

These strategies not only reduce our urban heat burden but also lead to tangible benefits like lower energy costs. Kavishe pointed to local successes, such as the Mlimani City area, where tree cover and open spaces he addressed the issue of flooding, which has become an annual disaster in Dar es Salaam.

This is a result of reduced green space and increased paved areas, which prevent water seepage and increase surface runoff.

He proposed Sustainable Drainage Systems (SuDS) as a nature-based solution to manage floods. SuDS are designed to mimic natural water flows, allowing water to infiltrate the ground where it falls instead of being channeled away rapidly.

Intervention include Permeable pavements, Swales along roadsides, Rain gardens and detention basins, Rainwater harvesting systems on buildings, which can turn a problem into a valuable resource.

In executing engineering works and services, a Safety and Environmental Management Plan is vital to ensure quality, safety and well-built in professional manner.

The Engineers Registration Board is empowered to enter any premises to inspect and verify compliance with safety,

occupational health, and environmental standards in accordance with

Section 4(1)(k)(i) of the
Engineers Registration
Act, Cap. 63, read
together with Regulation 32 of the
Engineering
Works, Services, and Projects
Monitoring Regulations,

GN NO. 237 OF 2015.





ERB Launches Instructor's Course to Bridge Technical Knowledge Gap

Morogoro, The Engineers Registration Board (ERB) has launched a specialized instructor's course for engineering practitioners aimed at addressing the technical knowledge gap among professionals in the engineering and construction sectors.

Speaking during the official opening of the 10-day course at the School of Professional Engineers and Leadership (SOPEL) in Morogoro, ERB Registrar Eng. Bernard Kavishe said the training was designed to build capacity for professionals who serve as trainers, mentors, or facilitators in or workplace settings. "SOPEL was established with the purpose of addressing a critical knowledge gap in engineering specifically the ability to assemble and utilize resources effectively to achieve desired outputs, the gap is normally in soft skills, project management, contract management and the like" said Eng. Kavishe.

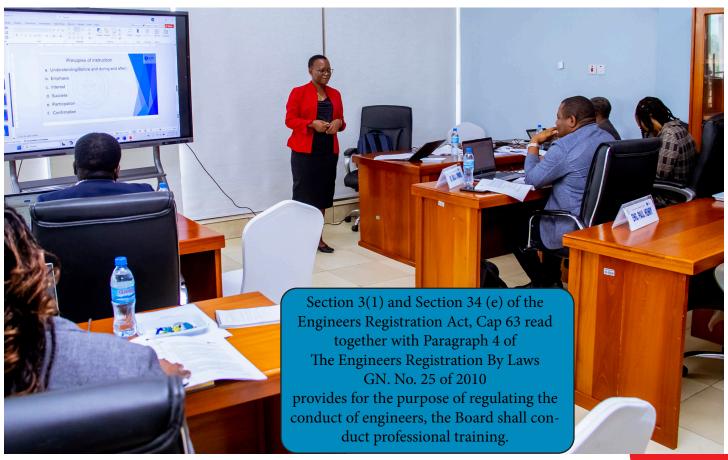
The course targets registered professionals including civil, electrical, mechanical, water, and environmental engineers, as well as architects, urban planners, quantity surveyors, construction economists, land surveyors,

project managers, construction supervisors, environmental assessors, and facility managers.

Kavishe emphasized that the SOPEL is not focused on traditional academic subjects but rather on emerging and practical concepts not commonly taught in colleges. "For example, the World Bank is promoting the concept of incorporating nature into infrastructure. This is new knowledge that needs to be included in college curriculums, SoPEL will act a s depository of new knowledge and concepts before they become mainstream and taught at universities"

In addition he said there are long and short courses to be provided by SoPEL, example of the long training programs for residence engineer, the programs will involve job-specific training, practical fieldwork, mentorship by experienced engineers, and eventual evaluation by a professional panel."The aim is to produce competent resident engineers who understand both theory and practice," Kavishe explained.

He also revealed that ERB plans to recruit part time instructors from among the graduates of the instructor's course. "Our training is well structured, with professional lesson plans and robust systems to ensure quality," he said.



ERB Enhances Engineering Awareness at Nanenane 2025

The Engineers Registration Board (ERB) made a vibrant presence at this year's 32nd Nanenane Farmers' Exhibitions held at John Malecela Grounds in Dodoma from August 1 to 10, 2025.

With a well-set pavilion, the ERB team engaged with engineers, students, and members of the public to promote professional engineering services and the importance of ethical engineering practices in national development.

Throughout the exhibition, the ERB team provided essential services including engineer registration guidance, assistance with the ERB MIS system, and on-the-spot subscription payments. In total, 60 engineers were assisted, and over 65 visitors were engaged, making it a busy and impactful week for the team.

One key focus was raising awareness about the Engineers Registration Act and encouraging the use of registered professionals in construction projects.

Visitors expressed great interest in understanding registration procedures and appreciated the opportunity to receive direct support from ERB staff. Stakeholders also offered insightful feedback, calling for more outreach, better MIS system usability, and stronger supervision of engineering projects. Suggestions included opening a regional office in the Southern Zone, improving collaboration with city councils on project approvals, and introducing a unified control number for each engineer to simplify payments.

ERB's participation in Nanenane 2025 was a clear success solidifying its commitment to professional excellence and public service in engineering. With plans to adopt more interactive displays, highlight engineering success stories, and strengthen stakeholder follow-ups, the Board is keen to make future exhibitions even more engaging and impactful.



Contractors Award President Samia for Elevating the Construction Sector



THE AWARD WAS RECEIVED ON BEHALF OF PRESIDENT SAMIA BY THE MINISTER FOR WORKS, HON. ABDALLAH ULEGA, DURING A CEREMONY HELD AT THE DOME IN MASAKI, DAR ES SALAAM.



ERB Joins Thousands at CRDB Marathon in Dar es Salaam



On Sunday, August 17, 2025, as the sun rose over Dar es Salaam, thousands of people gathered at The Green Ground, Oysterbay, to take part in a vibrant marathon event. Some participants were running for the first time, while others were seasoned marathoners.

Among the smiling and energetic faces were members of the Engineers Registration Board (ERB), proudly wearing their ERB Run for STEM T-shirts. By joining the race, they showcased that engineering is not only about working at a desk but also about embracing fitness and an active lifestyle.

The atmosphere was lively and filled with excitement as runners of all ages, backgrounds, and fitness levels warmed up and encouraged one another. Families lined the sidelines, waving banners, taking photos, and cheering on loved ones, while music and announcements kept the energy high. ERB members blended seamlessly into the crowd, embodying a spirit of unity and teamwork that extended beyond the workplace. Their participation reflected the organization's commitment to healthy living and its dedication to connecting with the wider community.

As the race unfolded, the morning sun cast a golden glow over the scenic Oysterbay route. Each runner

whether experienced or new pushed themselves toward the finish line, cheered on by supportive spectators. When the event concluded, a shared sense of achievement filled the air. For ERB, the day was not only about the distance covered but also about being part of an occasion that brought people together in a positive and uplifting way,also as a warm up to the ERB Run for STEM 2025 set 27th September 2025 UDASA ground Dar es salaam.



Instructor's course for engineering practitioners in Pictures













ERB to conduct Second "Run for STEM" to Empower Girls in Science Education

The Engineers Registration Board (ERB) has announced that it will host the second edition of the "Run for STEM" on September 27, 2025, at the UDASA grounds, University of Dar es Salaam.

The marathon is designed to raise funds to support secondary school students—particularly girls—in pursuing STEM subjects. Proceeds from the event will go toward procuring science books, establishing online library access, equipping laboratories, and supporting science teachers with training and resources.

That event brought together engineers, students, government officials, and members of the public for a day of fitness, networking, and fundraising. Funds raised were used to improve science laboratories and provide reference books to several schools, laying a strong foundation for this year's campaign.

Following the CRDB Bank Marathon, ERB highlighted the urgent need to bridge the STEM education gap across the country. Many schools, especially in rural areas, still lack adequate resources to conduct practical



The announcement came during ERB's participation in the CRDB Bank Marathon, where members used the platform to reaffirm their commitment to advancing STEM education through the Run for STEM initiative. ERB emphasized that donations from this year's run will specifically support laboratory equipment, books, and enhanced teacher training, with the overall goal of ensuring that students—especially girls are better prepared to enter the engineering profession.

This year's event builds on the success of the inaugural Run for STEM in 2024, also held at the UDASA grounds.

science lessons. Through this initiative, ERB aims not only to provide essential equipment but also to inspire students by demonstrating the real-world impact of engineering.

The announcement has generated excitement among participants and supporters, reinforcing the message that the race toward equality and innovation begins long before the finish line it begins in the classroom.

ERB Registrar Commends Graduates of instructor's course for engineering practitioners Program at SoPEL, Morogoro

The Registrar of the Engineers Registration Board (ERB), Eng. Bernard Kavishe, has commended the graduates of instructor's course for engineering practitioners offered by the School of Professional Engineering and Leadership (SoPEL), an institution owned by ERB.

Speaking at a ceremony held at the school in Morogoro, Eng. Kavishe expressed confidence that the graduates will improve the delivery of engineering education and knowledge-sharing in their respective institutions. He emphasized the importance of continuous skills development, particularly in enhancing presentation and communication techniques.

Eng. Kavishe further revealed that SoPEL is preparing new training on Price Adjustment to strengthen the capacity of professionals in the country.

"Price adjustment is an area that is not well understood. The government loses revenue not because of any thing, but due to limited understanding. Through this training, we believe we contribute to a solution"He said.

SoPEL Coordinator, Eng. Thereza Laurent, highlighted that the training focused heavily on practical learning, allowing participants to deliver presentations based on their areas of expertise, experience, and specialization within engineering.

One of the facilitators, Eng. Gartius Rwenyagira, urged the graduates to share the knowledge they acquired with colleagues in their respective workplaces. Speaking on behalf of the graduates, Eng. Ronald Lwakatare said the training had equipped them with skills to effectively share their expertise with other engineers across the country.

"We have often relied on foreign engineers for training, yet we ourselves possess knowledge and have studied in the same institutions. ERB's initiative is vital for the country's development," he said.

Head of the ERB Professional Development Department, Eng. Veronica Ninalwo, expressed gratitude to the ERB in establishing SoPEL. She also encouraged the graduates to serve as ambassadors of the school, which aims to sharpen the skills of engineering professionals and other related fields.

At the graduation ceremony, 14 engineers from various institutions across the country completed the training, which lasted for over seven days, and were awarded certificates by ERB Registrar Eng. Bernard Kavishe.



Photo: Graduates of instructor's course for engineering practitioners graduates with ERB (in between) Registrar Eng.Bernard Kavishe at SoPEL, Morogoro



ZAEQSRB Delegation Visits ERB to Enhance Professional Collaboration

On Wednesday, 20 August 2025, a delegation from the Zanzibar Architects, Engineers, and Quantity Surveyors Registration Board (ZAEQSRB), led by the Chairman of the Board of Directors, Arch. Nassir Da-Costa, and the Registrar, Eng. Mansur Mohamed, visited the Engineers Registration Board (ERB) offices in Dar es Salaam.

They were warmly received by their host, Eng. Bernard Kavishe, the ERB Registrar. The delegation was hosted jointly by their counterparts from ERB and the Architects and Quantity Surveyors Registration Board (AQRB).

The visit is a part under the Memorandum of Cooperation signed in Zanzibar on 16 November 2022

between the parent ministries: the Ministry of Works and Transport (Mainland) and the Zanzibar Ministry of Infrastructure, Works, and Transport.

The Memorandum seeks to strengthen collaboration between these boards, harmonize professional standards, and pave the way for mutual recognition of professional qualifications.

Later that evening, on 20 August 2025, the delegation traveled by SGR train from Dar es Salaam to Dodoma. During their stay in Dodoma, they visited national projects, including the Mtumba Government City and the Dodoma Ring Road project, coordinated by ERB.



ZAEQSRB Delegation Visited Mtumba Government City and Dodoma Ring Road Projects



The Zanzibar Architects, Engineers, and Quantity Surveyors Registration Board (ZAEQSRB) recently conducted an official visit to the Engineers Registration Board (ERB) Headquarters offices in Dodoma as part of the ongoing collaboration under the Memorandum of Cooperation signed in Zanzibar on 16 November 2022.

During the visit, the ZAEQSRB delegation engaged with ERB management and staff, holding detailed discussions on strategies to enhance efficiency in the implementation of the tripartite agreement between ERB, ZAEQSRB, and AQRB.

The discussions also focused on identifying areas for improvement and strengthening professional coordination across the boards under the framework of the memorandum.

As part of their two day visit to Dodoma from 21 to 22 August 2025, the delegation visited some projects in the city, including the Dodoma Ring Road and the

Mtumba Government City developments.

They highlighted the strategic importance of these developments in reducing traffic congestion, boosting economic activities, and improving connectivity within the capital city.

The visit provided a valuable opportunity to review project progress, exchange technical expertise, and underscore the role of engineering and surveying activities in ensuring high standards of project implementation.

The leadership from both sides emphasized the significance of closer cooperation between ZAEQSRB and ERB, particularly in overseeing major infrastructure projects, engineering practices, and quantity surveying. They agreed that such collaboration is essential to ensure sustainable contributions to national development and the delivery of high-quality infrastructure services.



Eng. Amb. Aisha Salum Amir, Permanent Secretary at the Ministry of Works, addressing the public during the Annual Engineers Day 2024 held at Mlimani City.

ENGINEERS' CSR WEEK:

The ERB is known for its initiatives that extend beyond professional development, such as promoting STEM education. This is from September 21st to September 23rd all over the country 2025.

Youth science and Technology: This event is specifically for young engineers and startups in science and technology it's designed to provide a platform for them to explore and develop entrepreneurial opportunities. It's a great chance for the next generation of engineers to network and present their innovative ideas.

This is from September 9th to September 19th all over the ${\bf country} \; .$

YOUTH IN SCIENCE AND

TECHNOLOGY FORUM

This event is specifically for young engineers and startups in science and technology it's designed to provide a platform for them to explore and develop entrepreneurial opportunities. It's a great chance for the next generation of engineers to network and present their innovative ideas. This is from September 9 to September 19th all over

ERB RUN FOR STEM:

This is a marathon or fun run designed to raise funds and awareness for STEM education in primary and secondary schools. The proceeds from this event are used to support volunteering STEM teachers, e library and science laboratories.

At UDASA Grounds, University of Dar es Salaam

ANNUAL ENGINEERS DAY:

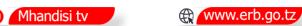
This is a flagship event that brings together engineers and stakeholders to discuss and showcase contemporary engineering matters. This year's theme is "Achieved Vision 2025 and Advancing towards Vision 2050: The Role of Engineers," which highlights the profession's crucial role in national development goals. This is from September

MIKUMI EXCURSION:

This is a trip to Mikumi National Park, is on 28th
September 2025, which offers engineers a chance to see a
major piece of modern engineering—the Standard Gauge
Railway (SGR)—in action, while also enjoying a safari
and connecting with colleagues in a more relaxed setting
and Mikumi national park game reserve.

Trip departs from Dar es Salaam.







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ERB SEPTEMBER EVENTS

Sept. 15 - 19 - Engineers CSR Week

Sept. 21 - 23 - Youth in Engineering Forum (YEF)

Sept. 24 - 26 - Annual Engineers Day (AED)

Sept. 25 - Professional Oath Taking (Dar es Salaam)

- ERB RUN FOR STEM

Sept. 28 - Mikumi Excursion





