

Engineering

A publication of the Engineering Institution of Zambia

echo



Engineering House Commissioned

➤ Inside this issue



Engineers are Custodians of Infrastructure Development, Lusaka Mayor



EIZ Scoops Best Educational Institutional Award



Bring your Skills to Solve Societal Problems, Says Prof. Chirwa



ANNIVERSARY ROAD TAX – RTSA'S ANSWER TO THE LONG QUEUES

The Road Transport and Safety Agency (RTSA) has commenced Anniversary Licensing for Motor Vehicles and Trailers in the Republic of Zambia.

A Motor Vehicle or Trailer License shall be in force in the case of:

- a. an annual licence, will be valid for twelve (12) months from the date of first registration of the motor vehicle or trailer;
- b. a half-yearly licence, will be valid for six (6) months from the date of first registration of the motor vehicle or trailer; and
- c. a quarterly licence, will be valid for three (3) months from the date of first registration of the motor vehicle or trailer.

For example, if you registered your motor vehicle or trailer on 26th May 2023, your vehicle licence (road tax) will run effective this date for either 12 months, 9 months, 6 months or 3 months depending on your preferred cycle of licensing.



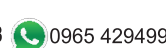
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and Safety Agency

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Bring your Skills to Solve Societal Problems, Supriya Chirwa

On the Cover

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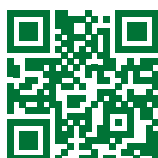
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Foreword from the Editor



Greetings from your Engineering Echo Editorial Team. We take this opportunity to thank our devoted readers, highly innovative and talented authors, expert reviewers and distinguished editorial team for being a part of this highly sought after archived Engineering Echo of the Engineering Institution of Zambia (EIZ).

Engineering Echo strives to report the most recent engineering news and activities undertaken by EIZ quarterly. Engineering Echo in this issue has featured some of the exciting news:

- Engineering House Commissioned: After 68 years of existence, EIZ finally commissioned its state-of-the-art head office located in Lusaka;

- EIZ Gets Award for Best Regulatory Institution: EIZ scooped 3rd place in the best regulatory institution exhibit category during the 2023 Copperbelt Agricultural, Mining, Industrial, Networking and Enterprise (CAMINEX), held from 30th May to 1st June 2023, in Kitwe, Copperbelt Province;

- EIZ Scoops another award as the Best Educational Institutional Award: EIZ scooped it's very first trophy as Best Exhibitor in the Educational Institutional Category at the Zambia Agricultural and Commercial Show, held from 2nd to 7th August 2023. The annual event which was held under the theme **I n c l u s i v e E c o n o m i c T r a n s f o r m a t i o n** was graced by His Excellency, the President of the Republic of Zambia Mr. Hakainde Hichilema;

- 50% Lusaka-Ndola Road Project to Be Sub - Contracted to Zambians: EIZ President En. Abel Ng'andu says fifty percent of the Lusaka-Ndola dual carriageway project should be sub-contracted to Zambians;

- Minister elated to see more women joining the engineering profession: The Minister of Infrastructure, Housing and Urban Development Eng. Charles Milupi has commended the Zambia Women in Engineering Section (ZWES) for their radical

approach towards promoting female engineering professionals in the country.

- EIZ Strategic Plan Launched: EIZ launched its 2023-2026 Strategic Plan to illustrate the goals and principles that will guide the institution in its operations for the next 4 years.

Furthermore, our goal is to provide the reader of Engineering Echo with a new, well-constructed, informative, and educational magazine. The entire editorial team and I, strongly encourage you to submit enlightening articles to educate and support the growing field of engineering. Lastly, I consider it an honour to be the Editor of the Engineering Echo, and, with my team of motivated and qualified editors, look forward to making Engineering Echo a marquee magazine in the field of engineering in Zambia and beyond.

Have a pleasant reading!

Eng. Prof. John Siame

Chairperson of EIZ publications and Editorial Committee

The Editorial Team



Eng. Grain Munakaampe
Editor - Secretary of the Publications and Editorial Committee



Ntalasha Mutale
Sub-Editor and Writer Public Relations and Marketing Manager



Cynthia C. Ngwengwe
Writer - Communications Officer



Abigail Hampane
Writer - Communications Assistant

Message from the Registrar and Chief Executive Officer



The last three months have been a period of adaptation, flexibility and continued growth within the institution. Each member of our team has worked so hard to think outside the box and deliver unparalleled service to our stakeholders. It has been so inspiring to watch everyone dedicate such tremendous amounts of time and energy to finding solutions to the challenges that we have been facing as we continue on a path of continuous improvement.

A satisfied membership is our most treasured asset and the foundation on which we have built our institution. Everyone at EIZ knows that the only way to protect and improve our reputation is to exceed the members' expectations, meet our commitments, innovate in our business and deliver excellence.

By understanding and embracing our members' needs, vision, project objectives and goals, we are slowly building stronger and lasting relationships that will yield long term results. The journey has been all about focusing on our strategic plan and delivering on our vision. The trust of our members, partners and other stakeholders has also kept us going and this is what we remember as we forge ahead in our journey of growth.

We are strengthening our existing stakeholder relationships, defining

and operationalising institutional processes and started conversations with new partnerships, with government and non-governmental organisations alike.

In order to achieve this, we are investing in our people, improving our work culture and environment through activities and initiatives and most importantly retaining our most important asset, the members.

One of our major achievements in this quarter was the commissioning of our Head office building, the Engineering House and the launch of the 2023-2026 Strategic Plan. Over the years, the membership of the institution has grown exponentially, from about 6,000 in 2012 to 75,000 in 2023. It therefore became imperative to improve the quality of service delivery by providing an environment that not only strengthens the connection to our members but also allows our institution to live the brand.

We are glad to also report tremendous project on the EIZ Kitwe Office that is aimed at improving our service delivery to the membership in the Northern Region. The project currently sits at 67% complete with much of the superstructure done.

We also aligned our Strategic Plan with the 8th National Development Plan to support government's goals in infrastructure development and economic transformation. The document sets an ambition for the future of the institution and illustrates the goals and principles that will guide EIZ from 2023 through to 2026.

I am proud to mention that EIZ scooped a trophy as Best Exhibitor in the Educational Institutional Category at the Zambia Agricultural and Commercial Show, held from 2nd to 7th August 2023 under the theme Inclusive Economic Transformation.

The institution further scooped third place in the best regulatory institution exhibit category during the 2023 Copperbelt Agricultural, Mining, Industrial, Networking and Enterprise (CAMINEX), held from 30th May to 1st June 2023, in Kitwe, under

the theme, "Copperbelt: re-ignite, rebuild, renew."

EIZ participated to showcase the institutional products and services to all stakeholders and also created a platform to interact with members as well as respond to queries.

As a way of promoting the general advancement of science, engineering and technology for the improvement of quality of life, the EIZ actively participated and sponsored the 53rd annual Junior Engineers, Technicians and Scientist (JETS) Fair held under the theme: Promoting Innovation, Engineering and Entrepreneurship: Accelerating STEM Growth and Development.

We just commemorated the 9th Africa Engineering Week which was held under the theme "Celebrating engineering excellence in the African Region". The Africa Engineering Week was initiated to increase the visibility of engineering and its role in sustainable development in Africa.

It was gratifying to see different member classes and stakeholders across the country participate in the activities that were lined up in commemoration of this important annual event.

As Secretariat, we recognise and appreciate various voices from all our members; your knowledge and experience on how together we can make this institution great. Please continue engaging us and sharing your perspectives for continuous institutional improvement.

We appreciate your continued commitment to the institution and our growth. We are confident we can make this mutually rewarding.

Eng. David Kamungu

Have a great reading!

Engineering House commissioned



L-R. Eng. Ng'andu, Eng. Nzovu, Lusaka Mayor Ms. Chilando Chitangala and Eng. Mwafuilwa.

After 68 years of existence, the Engineering Institution of Zambia (EIZ) finally commissioned its state-of-the-art head office located in Lusaka.

The all-inclusive architectural phenomenon stands on a 6156 square meter plot and consists of an auditorium, elevated carpark area, a usable rooftop, among other incredible features.

The three-storeyed Engineering House signifies a shift in service delivery, as it also provides the institution with an impressive new home to pursue its mandate and live up to its name.

Commissioning the building, Minister of Green Economy and Environment Hon. Eng. Collins Nzovu said the completion of the structure was a great achievement which all engineering professionals should be proud of.

“This is indeed a momentous occasion and I am so proud as an engineering professional myself to see this day,” he said.

Eng. Nzovu called on EIZ to ensure that the Engineering House is a green building that incorporates state-of-the-art technology.

He said engineering professionals must build infrastructure that will stand the test of time and address the effects of climate change.

“As we build infrastructure in the country let us ensure that renewable energy is used, resources utilised efficiently and issues of waste management addressed as the project starts,” Eng. Nzovu added.

He further called on EIZ to closely monitor infrastructure development which he said has increased as a result of the Constituency Development Fund (CDF).

“I Call upon the engineering professionals to help the Ministry of Infrastructure and the Local government to ensure the principles of cost, quality, and timeliness are upheld because only then will we have quality infrastructure,” he said.

He said government shall continue to consult the engineering professionals on matters of engineering.

And EIZ President Eng. Abel Ng'andu said construction of the building has been a visible, viable asset which is being utilized to build and grow membership as well as improve partnerships with stakeholders.

“Over the years, the membership of the institution has grown exponentially from about 6,000 in 2012 to 75,000 in 2023. It therefore became imperative that we increase our quality of service by providing an environment that will meet the demands of our members in many significant ways,” Eng. Ng'andu said. “And one of these ways was to construct a befitting modern structure that will carry our brand and image to reflect positively on who we are and what we stand for.”

Meanwhile, EIZ Properties Board Chairperson Eng. London Mwafuilwa said the launch of the engineering house signifies a shift in service delivery and passion to serve with integrity, transparency and fairness as outlined in the EIZ mandate.

He said the institution has also rented out part of the third floor and is looking at filling up other spaces by end of this year.

He added that EIZ Properties will continue pursuing its capital raising project with a view of empowering engineering professionals across the country.

EIZ scoops best educational institutional award



EIZ members of staff collect trophy.

The Engineering Institution of Zambia (EIZ) scooped its very first trophy as Best Exhibitor in the Educational Institutional Category at the Zambia Agricultural and Commercial Show, held from 2nd to 7th August 2023.

The annual event which was held under the theme Inclusive Economic Transformation was graced by His Excellency, the President of the Republic of Zambia Mr. Hakainde Hichilema.

EIZ showcased institutional products and services to all stakeholders and also created a platform to interact with members as well as attend to various concerns.

The exhibiting team led by the Public Relations Manager Ntalasha Yulu also took time to offer step-by-step online registration as well as re-emphasise the importance of being compliant.

Commenting on the award, EIZ Registrar and Chief Executive Officer congratulated the team for their outstanding performance and attributed the victory to the hard



Members of staff celebrate the victory.

work from the Secretariat, and the continued support from the general membership and Council.

And Ms. Yulu said events such as the Agricultural and commercial show presents an opportunity for members to interact with the institution as well as sell the service to the general public.

Interpreting the theme to the Judges, Ms. Yulu stressed the prominent role that engineering

played in driving the economy through skills development, employment generation, income distribution, technological advancement, financial inclusion, poverty reduction & economic growth and women empowerment.

She said the institution was committed to promoting competence, professionalism and compliance in the engineering sector, to improve the quality of life for all Zambians.

Strategic Plan launched



L - R. Eng. Ngandu with Minister of Green Economy and Environment and Lusaka Mayor Ms. Chilando Chitangala.

and decisions for the future.

He said in line with the 8th National Development Plan (8NDP), EIZ has developed the plan in tandem with government's goals as it accelerates its ascent to a much higher level of achievement, inclusion, service, and impactful results.

“To realize our vision and achieve the strategic results of this Plan, EIZ commits itself to regulating and promoting the engineering profession for optimal human resource and benefits to society,” he said.

For any Institution, setting goals and targets to achieve in a particular period is what leads to successful execution of projects.

The Engineering Institution of Zambia (EIZ) launched its 2023 to 2026 Strategic Plan to illustrate the goals and principles that will guide the institution in its operations for the next four years.

Engineering Institution of Zambia (EIZ) President Eng. Abel Ng'andu said the launch of the strategic plan is the Institution's message of excellence through re-defining the business direction, goals,

Eng. Ng'andu said EIZ will ensure existence of adequate engineering human resource and professional conduct of members through enhanced professional development, training, licencing of members and ethical conduct of engineering and enhanced compliance monitoring.

He further said the Institution's areas of focus will be enhancing engineering regulation resulting in high quality engineering works, governance & operational efficiency resulting in efficient & effective service delivery.

50% LUSAKA - NDOLA road Project to be Sub - Contracted to Zambians, says Eng. Ng'andu

The Engineering Institution of Zambia (EIZ) President Eng. Abel Ng'andu says 50 per cent of the Lusaka-Ndola dual carriageway project should be sub-contracted to Zambians.

He was speaking during the Press Briefing held at EIZ Stand during the 95th Agricultural and Commercial Show exhibition that took place in Lusaka from 2nd to 7th August 2023.

Eng. Ng'andu said Zambians had the capacity to participate in the Lusaka-Ndola dual carriageway project and would deliver quality works.

“We have a lot of Zambians with the capacity to participate in the Lusaka-Ndola dual carriageway project. As EIZ, our position is very clear, we want more Zambians. 20 percent sub-contracting is very less, we are expecting around 50 percent plus because there are Zambians with that capacity. If they are looking for those Zambians, let them come to EIZ, we will give them Zambians,” Eng. Ng'andu.



Eng. Ng'andu



Women showcasing their innovations during the 2023 International Women in Engineering Day commemoration

Government wants more women in STEM, says gender PS

Gender Permanent Secretary Ms. Mainga Kabika has said government wants to see more women empowered in Science Technology, Engineering and Mathematics (STEM) skills to advance gender equality and women empowerment.

Ms. Kabika was speaking during the International Women in Engineering Day (INWED) commemoration which was held at the Engineering House in June this year.

Ms. Kabika said STEM will not only contribute to women empowerment, but equal participation and diversity which will also accelerate the development of the STEM sectors.

“These sectors are critically important and hold high potential for Zambia's economy and sustainable development. As the world continues to grapple with climate change and other critical issues, the equal participation and leadership of

women and girls in STEM disciplines is more important than ever,” she said.

“Engineering professionals are crucial to tackling every global challenge of our age, from climate change to cybersecurity, amongst others. Surely it is self-evident that we want – we need – a profession that looks more like the society it serves.”

She said only when the body of engineering professionals truly reflects the society it serves, will it most effectively serve the needs of that society.

“Only then will it understand all the communities it is serving, harness the widest variety of viewpoints and generate prosperity for all,” she added.

“Engineering needs women for another simpler, larger reason: because solving problems needs creativity and creativity demands a diversity of viewpoints.”

Ms. Kabika said the key to increasing the number of female

engineering professionals may not just be mentorship programs, but more about reframing the goals of engineering research and curriculums to be more relevant to societal needs.

“We encourage engineering companies to develop inclusion frameworks that cater for both men and women and assist everybody; male and female to thrive in their work environment,” she said.

Ms. Kabika added that the INWED was a great opportunity to create awareness and encourage more women to take up engineering as a profession.

“By the look at the numbers in this gathering, I can see that the number of women in engineering is growing and we need to celebrate this positive achievement,” she said.

“We must continue to encourage initiatives from all sectors to support the development of female leaders in engineering.”

Engineers are custodians of infrastructure development, Lusaka Mayor

Engineering professionals are custodians of infrastructure development hence greater attention is needed to ensure infrastructure is fully maximized through better urban planning, urban governance, housing, and socio-economic development.

Lusaka City Mayor, Ms. Chilando Chitangala said this during the commissioning of the Engineering House and launch of the 2023 – 2026 Strategic Plan.

Ms. Chitangala said the City Councils are working with the Engineering Institution of Zambia (EIZ) in ensuring that Contractors engaged to work on council projects are registered with EIZ.

She said the partnership with EIZ has further been enhanced with the signing of the Memorandum of Understanding (MOU) with Ministry of Local Government and Rural Development.

She said the MOU with the EIZ is aimed at helping local Contractors in all districts to register through various Councils around the



Ms. Chitangala

country and ease access to the Constituency Development Fund (CDF).

“This structure you are launching today is not just about its significance to the engineering industry, but also a tremendous addition of beauty to this great city of Lusaka,” she said.

“There is need for good infrastructure in the country that will stand the climate change the country is experiencing and this cannot be achieved without our engineering professionals getting involved.”

She further said one of the biggest challenges being faced by the city of Lusaka is the seasonal flooding due to poor drainage infrastructure.

“Climate change may make our cities unliveable or have such vulnerabilities and heightened risks that will reduce their attractiveness for investors. It is, therefore, critically important that we work together and urgently develop disaster risk management strategies, build city resilience frameworks and climate adaptation plans,” she added.



Senior engineers following the event.

EIZ gets award for best regulatory institution



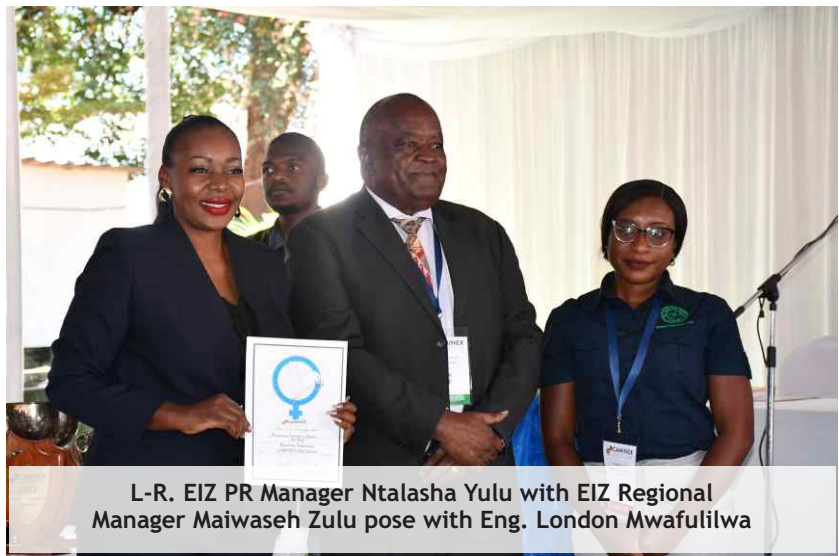
Members of staff pose for photo after the win

The Engineering Institution of Zambia scooped third place in the best regulatory institution exhibit category during the 2023 Copperbelt Agricultural, Mining, Industrial, Networking and Enterprise (CAMINEX), held from 30th May to 1st June 2023, in Kitwe.

The CAMINEX was held under the theme, “Copperbelt: re-ignite, rebuild, renew.”

CAMINEX offers important value to Zambia's rich mining belts and the show provides a valuable platform where manufacturers, suppliers, buyers and end users of various products and services can network and create mutual linkages.

EIZ Vice-President for Policy, Public Relations and National Development Eng. Kennedy Musonda was elated with the award.



L-R. EIZ PR Manager Ntalasha Yulu with EIZ Regional Manager Maiwaseh Zulu pose with Eng. London Mwafuilwa

He said the successful exhibition by the EIZ Secretariat was a demonstration of the invaluable effort to meet the needs of the countrywide spread members and stakeholders.

Meanwhile Show Society Chairperson Eng. London Mwafuilwa said he was delighted that the Expo was providing an opportunity for

information and knowledge sharing among various experts and exhibitors.

“We are pleased to be back after three years of not holding CAMINEX. We are here to provide a platform for businesses to thrive for all citizens including women and youths,” Eng. Mwafuilwa said.



Chingola DC pledges support to EIZ

The District Commissioner was speaking during the March past held in Chingola to commemorate the 2023 Africa Engineering week from the 25th to the 28th September 2023.

“For our country to achieve infrastructure development, engineering professionals must play a critical role in the core pillars of manufacturing, energy development, science, technology and innovations, transport, fisheries among other areas,” Mr. Chimuki said.

Other activities held by the Northern region include Career Talks, Exhibitions, Public Lectures, Panel discussions, Roadshows, Technical tours, and Radio programs.

The Northern region also held a cleanup exercise at Nchanga North Hospital in Chingola and an Awareness Walk in Ndola.

Chingola District Commissioner Mr. Raphael Chimuki has pledged to support the Engineering Institution of Zambia (EIZ) in carrying out its mandate of regulating and promoting the engineering profession in Zambia.

And Mr. Chimuki has appreciated the important role engineering professionals continue to play in promoting the economic growth of the country.

Bring your skills to solve societal problems, says Prof. Chirwa



He said creativity and innovation play major roles in addressing the economic, social and environmental crises in the country.

He further said engineering professionals should strengthen Zambia's innovative capacity resulting in the development of creativity and knowledge by reinforcing the role of engineering education in Zambia.

“Engineering professionals are the clogs in economic machine because they are the primary generators of income in a country,” Prof. Chirwa added.

The Professor also emphasised the need to increase efforts in promoting Science, Technology, Engineering and Mathematics (STEM) education in Zambia.

He said STEM workers play a pivotal role in ensuring sustainable development and stability in the economy and are a critical component to Zambia's growth.

“STEM education creates critical thinkers, increases science literacy, and enables the next generation of innovators,” he added.

Eng. Prof. Clive Chirwa has called on young engineers to bring their talents and skills together to solve complex societal problems.

Prof. Chirwa was speaking during a Young Engineers' guide and mentorship workshop held at Mulungushi Conference Centre in Lusaka.

Prof. Chirwa said there is no single equation that can solve any engineering problem in the country but team work.

“You need people around you to make it. This will reduce the amounts of mistakes as you learn from others on the job,” he said.

Prof. Chirwa encouraged young professionals' experience both working for big and small companies during the course of their careers.

Prof. Chirwa also encouraged young engineering professionals to venture into entrepreneurship.



Pupils in the initial process of making an electric car.

The 2023 National JETS Fair a success

Engineering, with its foundation in applied knowledge and problem solving, empowers us to shape the physical world around us and create a better future.

As a way of promoting the general advancement of Science, Engineering and Technology for the improvement of quality of life, the Engineering Institution of Zambia actively participated and sponsored the 53rd annual Junior Engineers, Technicians and Scientist (JETS) Fair held under the theme: *Promoting Innovation, Engineering and Entrepreneurship: Accelerating STEM Growth and Development*.

The Institution sponsored the awards which were presented to pupils after the exhibitions. Some of the outstanding exhibitions that were showcased included the Electric Vehicle, Parabolic Solar Reflector, Electric Walking Stick, amongst other exciting projects.

Officiating at the event, Minister of Education Hon. Douglas Syakalima said the exhibition was a catalyst for transformative change, driving the country on a path of innovations, engineering excellence and entrepreneurial success.

He said innovation was the cornerstone of progress that drives the country to explore uncharted territories, challenge conventional thinking and create solutions that address complex challenges.

He added that the skills and innovations exhibitions demonstrated aligned with the goals of the eighth national development plan which emphasizes the harnessing of technological advancements and innovative solutions to drive economic growth, social development and sustainable progress.

“These innovations and skills are in tandem with the 2023 education curriculum as they embrace emerging issues like entrepreneurship skills required for individual and national development,” he said.

“You may wish to know that I recently opened a capacity building workshop on curriculum by UNESCO, where I directed that, as a matter of policy, the development of the 2023 education curriculum should enhance STEM education and entrepreneurship skills. I am happy to note that the 2023 jets fair is already actualising these

attributes.”

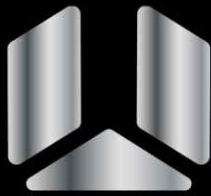
And Minister of Science and Technology Hon. Felix Mutati was astonished with the level of understanding of science and Technology by learners as young as 5 years of age.

Hon. Mutati said Zambia was headed for major advancement and development from the innovations that had been brought about by the children.

And Ministry of Education Director in charge of the National Science Centre Dr. Benson Banda thanked the Government, EIZ and other sponsors for support towards the development of STEM education in the country.

EIZ members of staff took time to tour the stands to get a deep understanding of the exhibited projects and explore other possible future partnerships.

Teg. Annie Kalaluka who is also EIZ Lusaka Branch Chairperson was one of the people who attended the event and encouraged the pupils to take up engineering as a career.



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Infrastructure serves as the foundation of every economy, with steel playing a significant role as a key constituent. From the inception of TMT bars to the latest technological advancements, UMCIL has diligently strived to establish Zambia’s self-reliance in producing steel of international quality and standards.

Universal Mining and Chemical Industries Limited (UMCIL) Kafue Steel stands as the vanguard of innovation and quality in steel manufacturing. With a commitment to excellence spanning **15 years**, UMCIL has refined the standards of strength and durability, powering the nation’s infrastructure from towering skyscrapers to vital flyovers, shopping malls, hotels, airports, and hospitals among others. This places UMCIL at the core of Zambia’s most ambitious construction undertakings. The synergy between UMCIL’s unwavering quality and the construction fraternity’s vision is reshaping the skyline of the nation.

UMCIL (Universal Mining and Chemical Industries Limited), a subsidiary of Trade Kings Group, has been proudly producing **since 2008**. We hold the esteemed **ISO 9001: 2008** for our quality management system. As Zambia’s largest integrated iron and steel manufacturer and one of the leading producers in Sub-Saharan Africa, we specialize in manufacturing High Tensile Steel re-bars using advanced TMT technology in compliance with the **British Standards BS-4449:2005 Grade 500B**.

Our commitment at UMCIL is to consistently deliver top-notch quality products to our valued customers. Our manufacturing process is cutting-edge, beginning with the production of steel billets. We start with the DRI tunnel Kiln, utilizing the coal-based tunnel kiln direct reduction iron process to transform domestic iron oxide ore with coal into direct reduced iron (DRI).

The DRI and steel scrap are then melted in the Electric Arc Furnace, and the molten raw steel is further refined in a ladle furnace, ensuring that we produce the finest steel billets for rolling the steel bars as per the BS specifications.

UMCIL’s dedication to stringent quality processes and checks has earned us recognition from the **South Africa Bureau of Standards (SABS) and the Zambian Bureau of Standards (ZABS)** as a trusted manufacturer of quality TMT re-bars in Zambia.

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EXCELLENT BONDING

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EXCELLENT BENDABILITY

500 UMZ with its unique microstructure and soft core of rebar possesses an outstanding bendability feature without compromising its high strength. These bars can be easily bent to precise angles as required by the design.

SUPERIOR WELDABILITY

500 UMZ due to its low carbon content offers superior weldability allowing for a quicker and simpler welding process without the need for preheating. This contributes to the creation of stronger and safer welding joints.

CORROSION RESISTANT

500 UMZ is produced by TMT technology rather than cold twisting, which avoids torsional residual stress in the rebar, adding to this its composite and uniform microstructure provides a better corrosion-resistant property compared to other TMT rebars.

EARTHQUAKE RESISTANT

500 UMZ is designed with heightened ductility to withstand cyclic loads, which makes these rebars ideal for earthquake-prone regions. It meets the UTS/YS ratio (Ultimate tensile strength to Yield strength) while offering a significant elongation percentage.

FIRE RESISTANT

500 UMZ with its consistent and thick tempered martensitic rim layer on the outer surface equips it with an elevated capacity to retain strength even at elevated temperatures. This property makes it resilient in fire-prone situations.

MARK OF AUTHENTICITY

Inspect the rebars for the **500 UMZ** marking to verify that you are purchasing the authentic steel bar produced by UMCIL.



LET’S BUILD A STRONG ZAMBIA TOGETHER.



EIZ Members participating in the Extraordinary General Meeting for Constitution amendment in Ndola last July.



Far right - Northern Region Chairperson Eng. Chansa Musonda interacting with engineering professionals at the Copperbelt Agricultural Mining Industrial Enterprise Expo. Listening on (m) is Eng. Kennedy Musonda, Vice President for Policy, Public Relations and National Development.



Media briefing by the EIZ President Eng. Abel Ng'andu at the 95th Agricultural and Commercial Show



EIZ Chingola Branch Committee members donating cleaning materials to Nchanga North Hospital.



Chingola District Commissioner visiting the EIZ stand, surrounded by Chingola branch committee members



Engineering professionals exhibiting at the Nchanga North club in commemoration of the Africa Engineering Week.



Cra Elizabeth Phiri leading in the cleaning of wards at Nchanga North Hospital as part of giving back to the community during the Africa Engineering Week.



Biomedical engineering section during a panel discussion at the engineering house in commemoration of the Africa Engineering Week.



EIZ Members of the Kabwe Branch during a technical tour of the Lunsemfwa Hydro Power Company Limited (LHPC) Facility- Mulungushi Power Station in Kabwe.



Engineering student from Mulungushi University Ms. Chipepo Chileshe giving a presentation to pupils at Muteteshi School as part of the Africa Engineering Week commemoration.



EIZ members pose for a photo with NORTEC Principal Eng. Martin Kasonso (m, grey tie) after a public lecture.



EIZ Members from the Kitwe branch during a technical tour at CEC Solar Power Plant.



Eng. Kangwa urges professionalism in aviation

Professionalism and compliance are important qualities to nurture in every engineering field, but in the world of aviation, it takes on even more critical significance, EIZ Vice President for Finance Eng. Dr. Diana Kangwa says.

Eng. Kangwa was speaking during the Zambia Air Traffic Safety Electronics Association (ZATSEA) conference held in Livingstone in June this year.

“As we are all aware, air transport engineering is responsible for millions of flights each year routinely performed under a variety of demanding circumstances.

“Undoubtedly, this is a field that require extreme professionalism to avoid costs that are beyond economic losses; but more so, fatalities, injuries and erosion of public trust,” she said.

she urged all engineering professionals in the field of aviation to remain ethical and professional in their day-to-day duties.

“This way, you won't just remain competitive and continue saving lives but you will also will be able to command the skies with confidence,” she said.

She said air transport is an important enabler to achieving economic growth and development, and facilitates integration into the global economy and provides vital connectivity on a national, regional, and international scale,” she said.

Eng. Kangwa added that it is important to continue promoting aviation engineering to provide economic and social opportunities and benefits that result in positive multiplier effects as well as contribute to the nation's gross domestic product.

She further said EIZ has taken a radical approach to ensure that all works being carried out by engineering professionals are of acceptable standards and good quality that will stand the test of time.

“As a regulator, we ensure that all engineering professionals are compliant so as to avoid sub-standard works and furthermore provide quality assurance in safeguarding the confidence of the labour market and procuring entities of engineering works,”

Pupils join hands to make an electromotive vehicle



Pupils from different schools across the country joined their skills and innovative minds to make electromotive vehicle.

This project commenced during the just-ended JETS Fair held at the National Science Centre in Lusaka from 8th to 11th August 2023.

A Matero Boys Secondary School pupil, Bethel Sikazwe was amongst those participating in the making of the electromotive vehicle using iron sheets, angle liners, round tubes, rectangular tubes, wood, among other materials.

Sikazwe said this challenge gave him an opportunity to learn, come up with ideas and find solutions that will result in the reduction of air pollution in the country.

He said the project will enhance his artisan skills that have been handed down to him from his father.

And Minister of Education Douglas Syakalima expressed delight at the project as he toured the exhibition stands during the event.

He challenged the team to complete the vehicle-making project in 2 weeks, so that the innovation can be showcased.



Sikazwe pose in the car.

Eng. Milupi elated to see more women joining the profession



Eng. Milupi

Minister of Infrastructure, Housing and Urban Development Eng. Charles Milupi has commended the Zambia Women in Engineering Section (ZWES) for their radical approach towards promoting female engineering professionals in the country.

Speaking when he launched the International Women in Engineering Day on ZNBC TV, Eng. Milupi said he was happy to see more women joining the professional ranks to strengthen and grow the industry, generate innovation and improve performance.

He said engineering remains one of the least gender diverse professions with an unacceptably slow rate of

improvement.

“While other fields of study continue to make significant advances towards gender equity, engineering schools are still struggling to pull their numbers of women students past the set threshold,” Eng. Milupi said.

He said to bridge the gender gap, much effort has to be placed on encouraging women to go into engineering careers, a move that will greatly benefit the industry and the economy as a whole.

“We are at a critical moment in time – if the Zambian economy is going to continue to recover, then we must make a significant dent in the gender imbalance in engineering now, and build the country's capacity to deliver

home-grown engineering professionals that support economic growth,” he said.

Eng. Milupi said government is resolved and committed to improve women's active participation in both the public and private sectors.

“We have come up with initiatives such as the implementation of gender policies in organisations to address inequalities in the work place as well as empowerment programmes to improve women's economic status,” he said.

He said government will continue supporting and partnering with EIZ on projects that will promote gender balancing in engineering.

Uphold good working ethics, says Eng. Ng'andu



The Engineering Institution of Zambia (EIZ) has called on stakeholders to work together in uplifting professionalism by upholding good working ethics and quality delivery of works.

EIZ President Eng. Abel Ng'andu said shaping the future of infrastructure development needs one vision, one spirit of innovation and the same commitment by all professionals.

Eng. Ng'andu was speaking during the International Federation of Consulting Engineers - FIDIC Africa Infrastructure Conference held in Livingstone.

He said professionals must take advantage of high-level gatherings that aim at finding and offering quality engineering solutions to improve the quality of life for all.

“Platforms such as this complement and reinforce our tenacity to deal with various challenges in the engineering sector and increase our value in project implementation,” Eng. Ng'andu said.

He said construction is the bedrock for the development of any nation and every section of economic activity has the roles of construction and technology.

Eng. Ng'andu said engineering professionals drive economic development of the modern world, which is a critical role for progression and advancement of technology for a better life.

“It is our skills, our vision and our spirit of innovation that can help shape the future of the continent. That is why engineering professionals must be critical, yet creative, ready to handle constantly changing

environments,” he said.

He said the world is technologically advancing and needs engineering professionals to bring ideas into fruition by applying the principles of mathematics and science and develop solutions to the world's biggest technical issues.

He said as the world develops, more is being demanded of engineering professionals and therefore engineering professionals cannot afford to sit back and relax, but come up with innovations, creativity and a wealth of knowledge.

The EIZ President added that in order to raise education and engineering standards as well as enable engineering professionals practice across the globe, the institution has continued to actively pursue the accreditation to the International Engineering Alliance (IEA).

Every engineering professional, a mentor..



Over the years, our Engineering team has had great results from engineering professionals pairing and sharing knowledge. We have witnessed spontaneous mentorship relationships form with several senior engineers mentoring junior members.

These relationships have proved to be extremely beneficial both for the junior and the senior engineers' growth and have helped the teams be more cohesive and productive.

Whilst the senior leaders offer guidance and encouragement, this process allows them to reflect on their own goals as they continue their professional journey, as well as get exposed to fresh perspectives, ideas and approaches.

The Engineering Institution of Zambia is helping engineering professionals grow and advance in their careers. At the same time, help them learn and apply best practices to improve the codebase quality overtime.

EIZ has had the Mentorship Programme for the last four years. The institution has been taking at least 70 pairs in each region every year, to work at achieving goals, monitor progress towards these

goals and assess results.

The Northern Region Mentorship programme which is almost concluding saw 15 Mentees giving midway reviews of the experiences they have had during their interaction.

Some of the lessons highlighted by the Mentees were on skilful navigation of the industry graduates engineering professionals, strategic development of entrepreneurship abilities, business opportunities and prudent decision making.

Others said they learnt a lot about self-management, handling criticism, adapting to different work environments and the importance of being detail-oriented.

And others said they learnt about different networking platforms, open-mindedness, transparency and being innovative.

All this credit from the reviews were given to Eng. Dr. Himwanga Mweene, mentoring Christopher Njobvu, Eng. Jaato Siame mentoring Dan Kashiba, Eng. Mwanida Makashini mentoring Jonathan Mwamba, Eng. Bonnex Mwashu mentoring Mutemwa Charity Mwandila, Eng. Daniel Chitambala mentoring Mutale Banda, Eng. Don Chinungi

mentoring Rodrick Chisanga and Eng. Taperewa Namwinga mentoring Aquila Kamocha.

Others are Mr. Roberston Chela mentoring Sarah Nakanyika, Teg. Kwimbi Namwila mentoring Kima Mwanate, Eng. Henry Mupeta mentoring Nicholas Mtonga, Eng. L. Simumba mentoring Munashe Chiwanza, Eng. Milton Simukoko mentoring Dalitso Ngoma, Eng. Nchimunya Mulala mentoring George Sichelwe, Eng Happy Musumali mentoring Wilfred Singogo and Zanda Siluonde mentoring Mwape Chipuma.

One of the Mentees, Rodrick Chisanga mentored by Eng. Don Chinungi said, "The Mentorship journey has been awesome filled with wisdom, insight and key development areas. So far, we have done Leadership skills, positive mindsets and continuous improvement."

And EIZ Northern Region Manager Eng. Maiwaseh Zulu said the programme has encouraged Senior Engineers to encourage personal and professional development of Mentees through the sharing of knowledge, expertise and experience. Engineer Zulu has hence encouraged every senior engineer to be a Mentor.

Sarah Bweupe: defying all odds



Sarah Ngoma Bweupe is a female professional who has taken up a career in an engineering-related field by studying Carpentry.

Sarah was born on 13th March 1992 at the University Teaching Hospital in Lusaka to Mr. Felix and Mrs. Patunia Mpanzi Ngoma.

She started her primary education at Lady bugs Primary school in Chawama, from grade one to grade seven and later went to St. Francis of Assisi Catholic School in Makeni from grade eight to nine before proceeding to Libala High School for her senior secondary.

It was while at Libala High School that Sarah discovered her passion for Carpentry after taking woodwork and chose her career path with the support of her father.

“I enrolled at Chawama Skills Training Centre in 2008 to study Carpentry and Joinery and got G7 Carpentry Certificate, and later went to upgrade my skills at Lusaka

The engineering sector has seen a steady increase in the number of women participations compared to the previous years.

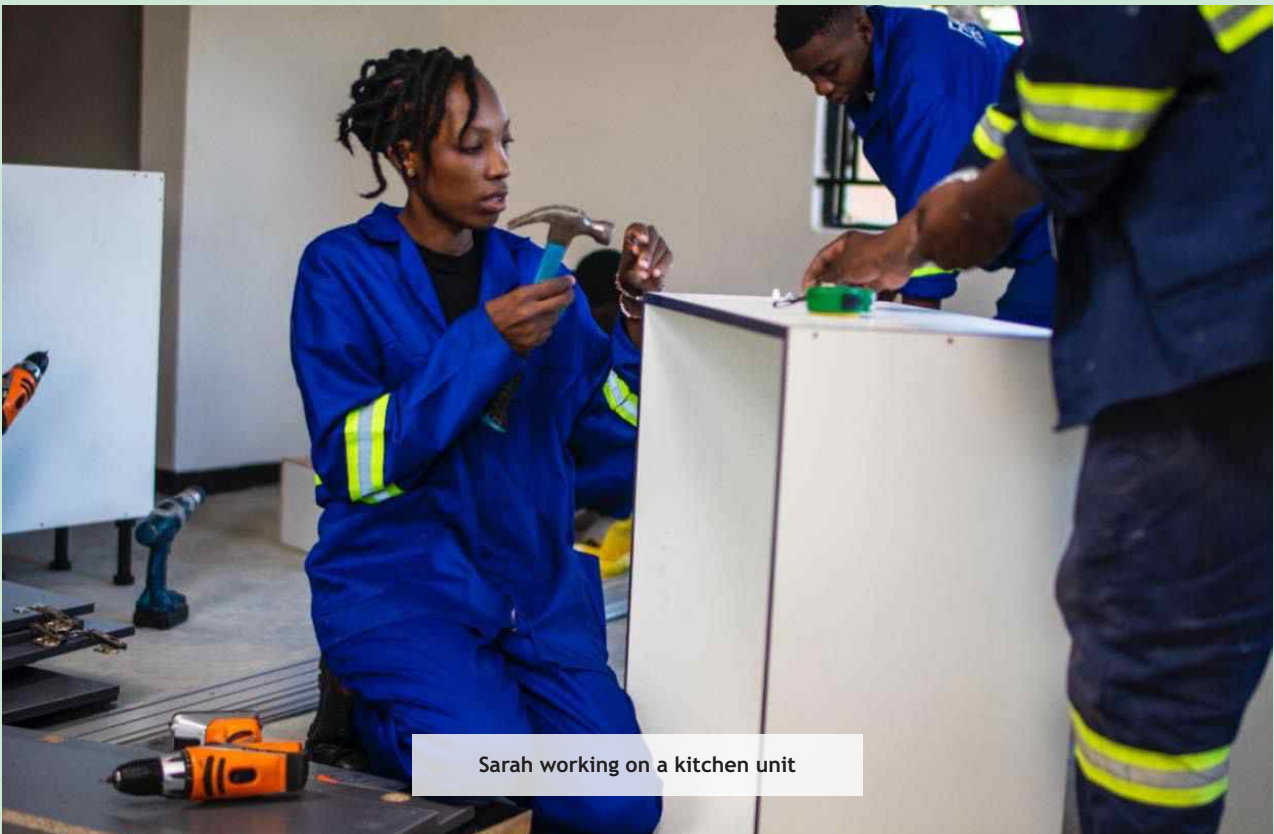
Engineering has been a male-dominated profession due to gender bias, stereotypes, educational settings amongst other reasons.

However, the formation of the Zambia Women in Engineering Section (ZWES) under the Engineering Institution of Zambia

has promoted the participation of women in engineering within Zambia.

The section has managed to encourage women in engineering to come together and participate in various engineering activities as well as stimulate the interests of young girls to join the profession.

The country is now seeing more women in engineering taking up positions that were previously held by men.





Vocational Training Centre in 2009 and obtained a Craft Certificate in Carpentry and Joinery in 2010," Sarah said.

Sarah said she wanted to be unique and experience a different career path from what everyone wanted to be when they completed school.

After completing her Carpentry training, she worked with a company called Skilled Carpenters and several others but later decided to open up her own business in 2018 called *Finest Fit Kitchens and*

Wardrobes.

Through this business, Sarah has managed to train four youths of which two are her biological brothers.

"When I started this business, one of the challenges I faced was trying to penetrate the market as it was male-dominated. I had to work extra hard to prove to many people that I could deliver my services efficiently," she said.

Because of her extraordinary unique skill, Sarah was one of the first recipients of the **PUSH WOMEN AWARDS** in the construction sector and a recipient of another award from the Graduate Women Zambia for celebrating women in construction.

Through this income, Sarah managed to enrol herself at the National Council for Construction School for further studies taking courses such as; construction materials testing, road construction and maintenance supervision, occupation health and safety and sustainable building works

supervision.

Sarah also managed to build a house from this income.

"I would love to encourage a girl child out there to believe in themselves and find something they are passionate about and turn it into something that can change their lives for the better.

"For girls in the communities, look for vocational schools within the community and try to enrol and change your lives for the better," Sarah added.

Sarah has been married to Steven Bweupe for eleven years and together they have four children. She says running her own company allows her to spend most of her time with her kids and husband; watching movies, cooking delicious meals as they bond.

"I am currently working on expanding my business so that I can take on bigger clients and also create employment for more people," Sarah said.

Experience is the best teacher, Supuni's story



By Ntalasha Yulu

Supuni Bobilo jumped out of bed early morning from his Mtendere home that he shared with his auntie and uncle. It was his graduation day and he

was very excited to finally wear that gown as a qualified Technologist.

Supuni slept in an extended cabin at the back of the house, a chicken run turned- bedroom. He shared this room with his 54-year cousin who had been leaving there for the last four years. Supuni looked at where his cousin was sleeping, snoring like a hog and shook his head. He swore never to become like him. The man already had two children he was not taking care of and drunk like a fish every night telling stories of how life was when he used to be a star in the popular Cinderella night club in Kitwe. "Those were the days, he

muttered under a drunken breath of "akajilili", (a small sachet of hard liquor). All girls would throw themselves at us as we mimed to Kafindondo songs. We were happening, twali abantu ifwe." That's all he ever talked about, reliving what he called the 'good old days.

Supuni didn't think there was anything good at all. The man had nothing to show for it about from two knocked out front teeth, obviously from engaging in frequent fights. Supuni quickly brushed off the thoughts from his head and started dressing up. Today was the day his life changes for the better. He had been

studying at Lusaka Trades for a Technologist certificate and was finally obtaining it to get a better job. He had dreams of how he would live in a big house in Ibex Hill, marry and have three kids. A girl and two boys. Yes, life can be better. The past three years, he had been doing odd jobs to contribute at the house. From gardening, to pool cleaning, to toilet scrubbing in restaurants during the holidays. Of late, he saw the reluctance from his auntie and uncle who started demanding a bit too much from the little he was earning, on top of what he was already contributing towards food.

“This certificate is now changing my life, he thought to himself. Maybe I may even come and get my 54-year-old cousin to live with me before marrying.” He quickly decided against that, knowing the problems that he could bring and walked out of the house, down their dusty gravel road. He didn't even think anyone from that home would bother coming to his graduation. But he was thankful that his sister from Chawama would be there. That was comforting. Supuni's parents died when he just completed grade 12. His sister was only 18 and ended up in an early marriage. Smart as she was in school, Supuni hoped she will continue through GCE and finish off where she left before she was impregnated by Mulenga (ba Mule), as they called him.

Six months after his graduation, Supuni was still sending applications to different companies for jobs. His auntie and uncle were becoming impatient that he was not bringing more income for the daily needs but spending time in the internet café

sending applications. His cousin would mock him from time to time in his drunken stupor.

“Am I becoming like my cousin, am I failing? Supuni would ask himself. Supuni was walking down to the internet café to send yet another application letter when he bumped into Janet, his former classmate. He was so happy to see her. Janet was always nice back in secondary school. She would help him with his homework, supply him with some past papers. Even remind him of due tests. She was a good friend. Janet looked amazing, she had studied law and was lucky to get a job in one of the big companies. She was driving a Toyota Vitz and was already looking for a house to rent. Supuni looked down, embarrassed at his own looks. As if she read his mind, she told him he looked good and asked him to accompany her to a coffee shop.

Janet asked what he was doing and he quickly explained his ordeal. You know, “you have a skill, and you were one of the brightest people I know. You don't have to wait for a white-collar job”, Janet said.

She went on to tell him how she could connect him to an uncle who owned an engineering company of 30 years. Two cup-cakes later, they had exchanged addresses and cell numbers and agreed to meet on a particular day.

True to her word, Supuni was connected and started working as an apprentice under Eng. Chikwekwe, Janet's uncle. He had a huge company in the light Industrial area of Lusaka. Supuni rarely saw the man except during

Board Meetings. The few times they had met, he was kind and quite generous. Supuni went on to work for Eng. Chikwekwe for two years until he got his practicing licence. He would never forget his first days at work. No proper clothes, no lunch money. He walked for long distances just to get there. Janet always came through for him. She would give him lifts from time to time and lend him money for lunch. Of course, she never got back any of it. It was just a matter of time before everyone knew them as a couple. Honestly Supuni didn't know what she saw in him. His workmates would always laugh and say, “Love is blind”.

Most days, Supuni found himself finishing his work before others, he started learning new skills and his experience grew. Even with the peanut pay, he was very passionate about his work. One day, he gathered enough courage and just walked up to Eng. Chikwekwe and said, “I would like to start my own company. And that was the beginning of a great business future for Supuni. He became an entrepreneur. He learnt that a white-collar job is not the only way. Supuni was establishing a steady clientele. His company was becoming stable. Big bucks were rolling in. His life had changed. Soon, other women started seeing him attractive. *Ama Colouredi* soon started coming at him. They did look beautiful and Supuni loved the idea of being wanted by women he once considered *not his class*. He was seeing less of Janet. Always giving her excuses about how busy he was, missing her calls...

•to be continued



THE ENGINEERING INSTITUTION OF ZAMBIA

NOTICE OF THE 2024 RENEWALS FOR PRACTICING LICENCES AND MEMBERSHIP SUBSCRIPTION

This **NOTICE** serves to inform all **Engineering Professionals (Engineers, Technologists, Technicians, Craftspersons and Skilled Persons), Engineering Organisations and Units** registered under the EIZ Act No. 17 of 2010 that the **RENEWALS** of the 2024 licenses and membership will commence on **1st October, 2023 up to 31st December, 2023**. All renewals will be dispatched to the respective addresses and contacts.

All Engineering professionals & engineering organisations and units are therefore reminded to renew and register for 2024. All notices should be honoured by **31ST DECEMBER, 2023**. New applications can be made via the portal at www.eiz.org.zm or through any of our regional offices in Lusaka and Kitwe.

PLEASE NOTE THAT IT IS AN OFFENCE TO PRACTICE ENGINEERING OR OFFER ENGINEERING SERVICES IN ZAMBIA WITHOUT A VALID PRACTICING LICENCE IN ACCORDANCE WITH THE EIZ ACT NO 17 OF 2010. ALL NOTICES NOT HONoured BY 31ST DECEMBER 2023 SHALL BE TREATED AS SUCH.

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Please visit www.eiz.org.zm or email eiz@eiz.org.zm for further assistance. Please note that we do not accept cash at our respective offices and that EIZ has no **AGENTS** in its chain of operations.

**ENG. DAVID KAMUNGU, FEIZ.
REGISTRAR/CEO**

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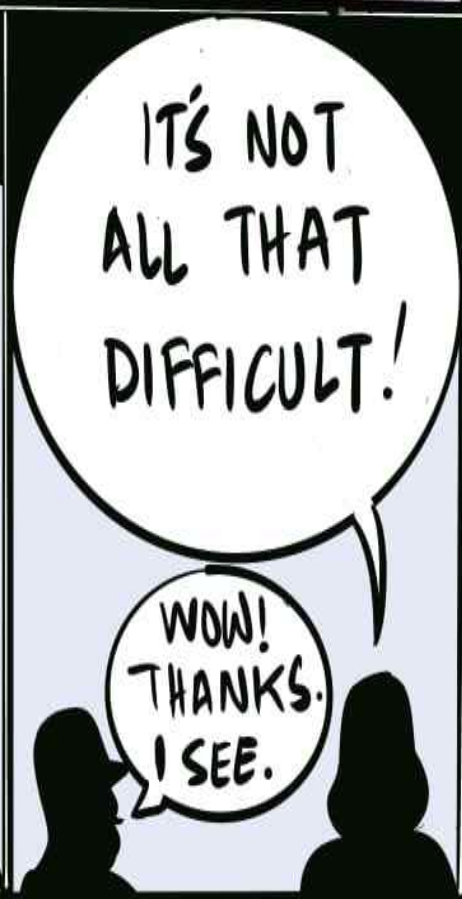
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