



Konkola Copper Mines plc

Konkola News

Issue N°74 • April 2018 • www.kcm.co.zm



Content

p.3

Chairman updates on Path to Growth

p.5

Heap Leach Project test pad commissioned

p.7

KCM has a great future – Din

p.13

Women in mining must push on

p.17

Leaky Feeder system upgraded

p.19

International Women's Day

p.20

Finnish envoy lauds KCM's growth

p.25

Shimulala School enrolment swells

Message from the CEO

Dear Colleagues,

I want to start by thanking each and every one of you for your commitment and dedication to your work. Your efforts have enabled us to realise important improvements in production during the last couple of months.

Production

We saw a promising run-rate at the end of the last financial year with production numbers at Konkola reaching 84% and TLP 61% of their respective contributions toward the 12,500T per month target for copper from integrated production. And Nampundwe, our pyrite plant with copper as a by-product, contributed 201 tonnes to our integrated copper production in the last financial year. We continue to work intensively to secure production improvements at the Nchanga Open Pits.

Safety

Our safety performance continues to improve. In March, the last month of our financial year, we ended with zero Lost Time Injuries (LTIs), scoring an improvement in LTI frequency rate to 0.34 from 0.37. Nonetheless, safety remains a concern as we are still seeing numerous serious incidents relating to mobile equipment. We need to continue to improve this aspect of our business.

Environment & Communities

I would like to acknowledge the magnificent work of our Environmental Team. In the face of many challenges which they had to overcome during the year, they successfully launched the **KCM Go Green** initiative.

The quality of our stakeholder consultation remains high, with much greater levels of mutual trust and accountability now established. Our Community investments are meeting the needs of our people. Today, our clean water delivery projects supply water to no less than 8,000 people. The health and wellbeing of our rural communities is improving as a consequence. More children attend schools and more childbirths are taking place in our clinics. We are making a real and important difference to people's lives.

Our focus for this financial year (FY18/19) is on three overarching themes – **Volume Growth, Product Quality and Environmental Sustainability**. This was underlined by Vedanta's Group Chairman, Mr Anil Agarwal, when he visited us in Chingola in April. You will hear your managers speak regularly about these three pillars of performance and Safety.

Looking Forwards

We have made a strong start to this new financial-year. We are recording some important milestones on our Path to Growth. Let us keep up the great work and above all, let us stay safe. We need to be recording 100% compliance with safety and health procedures across all our operations. There are no shortcuts.

Best wishes,

Steven Din
Chief Executive Officer



KCM Chief Executive Officer Steven Din

Chairman Anil Agarwal updates on Path to Growth



Vedanta Resources Plc Chairman Mr Agarwal presents a bouquet to Zambia President Edgar Lungu at the Zambia-India Business Forum in Lusaka. Looking on is India President Ram Nath Kovind. Photo by Eddie Mwanaleza, State House.

By Shapi Shachinda & Ruth Mulenga

Vedanta Resources Plc Chairman Anil Agarwal has told employees that he intends to introduce a share option plan to empower them as he reinforced KCM's Path to Growth and 50-year vision to continue mining in Zambia.

Mr Agarwal, during a Town Hall meeting with employees at the Nchanga Golf Club in Chingola assured the workforce of job security because KCM cares for them.

Mr Agarwal commented: "I have said that our people should not spend their salaries on buying a house. I am looking at a stock option if we do things right, make our production good, keep our environment good, our governance good, then our community social investment will be better than others."

"We have the passion and with the expertise and determination, we can achieve our production target," Mr Agarwal added.

The Chairman told the employees that he had assured the Government about Vedanta's commitment to continue mining in Zambia during private talks with His Excellency President Edgar Lungu on the sidelines of the Zambia-India Business Forum in Lusaka. The Honourable Ram Nath Kovind, the President of India also attended the Business summit.

The Chairman said KCM had potential to be the best company in terms of copper production in Zambia adding that, "because KCM is in the hearts of the people, it is important for us to ensure that we raise production."

Mr Agarwal added, "KCM is a large asset with a lot of potential. I have spoken with management to come up with projects where each employee will participate and contribute positively to the company."

Mr Agarwal said Vedanta was continually looking for growth opportunities and would continue to develop young talent and investing in communities through KCM's expansive corporate social responsibility programmes anchored on education, health, poverty alleviation programmes and sport.

During his two-day visit, the Chairman had private talks with President Lungu, President Kovind, the President of Botswana Mokgweetsi Masisi, who was also visiting Zambia, and Minister of Mines and Minerals Development Honourable Richard Musukwa and Copperbelt Minister Japhen Mwakalombe. He also met several government officials, including the Mayor of Chingola Titus Tembo and District Commissioner Mary Chibesa.

Vedanta Chairman explains his passion for Zambia



Mr Agarwal with Mines & Minerals Development Minister Richard Musukwa during their private talks on mining issues in Lusaka

By Shapi Shachinda

Anil Agarwal, the Chairman of Vedanta Resources Plc, has said he has a great passion for Zambia and will continue to support economic growth by helping the country to restore its position as Africa's leading copper producer.

When explaining KCM's Path to Growth to the Government, the media and other stakeholders in Lusaka recently, Mr Agarwal said uplifting people out of poverty, especially women and children, as well as developing young talent would remain a part of KCM's core business model.

Mr Agarwal was on a two-day visit to Zambia, where he attended the India-Zambia Business forum.

"I was eager to come to Zambia almost 15 years ago at a time when KCM was facing a lot of challenges. We have now created a strong position for KCM after investing over \$3 billion. Last year I pledged to invest an extra \$1 billion. We are targeting strong growth for KCM in the years ahead," he said.

The Chairman also expressed confidence in what he sees as the start of an African economic resurgence driven by various metals, for which KCM will play a part by raising production to 400,000 metric tonnes in the next few years.

Zambia remains one of Africa's preferred investment destinations and further improvements to the investment climate, stability in the tax regime and affordable power would attract even more foreign direct investment to the country, he added.

"Our desire is to have a win-win situation. The government must be happy, the Zambian public must be happy and our communities must flourish. We will maintain a continued focus on safety and the environment to realise this. We need to be patient, and we would ask our labour unions to be patient too. We plan to redeploy all the money we make to ensure the growth of KCM," he added.

He said KCM's growth will be driven by an injection of \$700 million, following Vedanta's previous investment of \$300 million in the past few months, comprising the \$1 billion pledge of fresh investments made by Mr Agarwal in 2017.

Mr Agarwal reiterated that KCM would construct a new cobalt refinery, a coal-fired power plant, a training school for upskilling local talent and continue to invest in local communities in the areas of education, health, sustainable livelihoods and sport.

Heap Leach Project test pad commissioned

By Victoria Kabwe Zimba

The Tailings Leach Plant (TLP) has commissioned a pilot test pad under the Heap Leach Project to test the viability of processing ores of varying grades at Nchanga mine and other pits such as Mimbula in a bid to increase copper production.

The test pad was commissioned in December 2017 and will be used to validate column test results obtained during preliminary laboratory metallurgical tests of the low-grade ores and serve as a basis for the commercial plant engineering design.

Project Manager John Kane said the team was currently testing

screened Chingola Refractory Ore (CRO) from stockpile number 12 (SP12) before extending the tests to SP16 and Mimbula ores.

Mr. Kane said, “The pilot project is showing positive results so far with regard to percolation, which has been a huge challenge in the previous attempts. For the month of January, one of the cells on the test pad produced seven tonnes primary copper and we hope to produce over 50 tonnes in the following months.”

Mr Kane said that Mimbula has been identified as the place where to set up the commercial heap leaching plant by 2020 and that plans to

conduct an Environmental and Social Impact Assessment (ESIA) have commenced.

“We plan to commence the ESIA process in Q1 of the 2018/19 financial year. Five major environmental consultants have done site visits and proposals have been received awaiting technical adjudication.”

Heap leaching is a process involving the crushing of mined ore to particle sizes of 20 centimeters and piling them into heaps. Leach solution containing sulphuric acid is sprayed over the heaps through sprinklers or drip emitters.



Project Manager Heap Leach John Kane and Collins Chabala an operator at the Heap Leach inspect the pregnant liquor copper solution at the TLP at Nchanga

It's our responsibility to produce copper safely – Albanese

By Victoria Kabweimba

Konkola Copper Mines (KCM) Board Chairman Tom Albanese has implored employees to continue prioritising safety in their work and expressed happiness with levels of safety awareness among the workforce.

Mr Albanese said during a recent corporate dinner held to introduce new board members that he had “seen a much deeper engraved and embedded perspective of safety by everyone we visited over last few days, not just the mottos, and the slogans, but also in terms of safety awareness and risk assessment.”

He emphasised that, “The day that we stop thinking of safety is the day that someone is going to get hurt. Safety is like pushing water up the hill. The moment you stop it flows right back at you. Stay safe, and the whole business will stay safe.”

KCM's obligation is to produce copper competitively and safely and

to ensure it helps its stakeholders who rely on the mine to run the business properly.

“Copper is very important to Zambia's exports, the currency and economy as a whole depend on it. KCM is very important in this industry and to nearby stakeholders. It's our obligation to produce copper competitively and safely,” he added.

Mr Albanese also assured that Vedanta Resources is still committed to KCM and Zambia for at least the next 50 years. KCM has enough resources, infrastructure, potential and most importantly capabilities among the employees.

He added that everyone needed to work hard in order to achieve the 50-year vision.

“It's not an entitlement, it's not a guarantee, there are no guarantees in this life. However, if you do what you know you need to do, which is to stay safe, produce copper, the most competitive



Tom Albanese

that you can anywhere on the Copperbelt, you can attract the investment, we can get deeper in the ore,” Mr Albanese said.

Mr Albanese said that achieving the vision would allow the opportunity for future generation to work at KCM.

KCM CHINGILILA CARDINAL RULES!

RULE #1: CONTROLLING HAZARDS

I will not carry out any task unless I have conducted a SLAM and implemented controls for all hazards.

RULE #2: WORKING AT HEIGHTS

When working at heights I will follow all requirements of the permit to work at heights.

RULE #3: ISOLATION/LOTO

Before starting any task I will ensure that all energy sources are correctly locked out and tagged out.

RULE #4: ELECTRICAL SAFETY

I will only work on any electrical system if I am qualified.

RULE #5: CONFINED SPACE ENTRY

I will only enter a confined space once I have followed all requirements of the permits to enter.

RULE #6: VEHICLES, MOBILE EQUIP & MOVING MACH.

When operating any vehicle, mobile equipment or moving machinery I will always follow all rules, including: Wearing my seat belt; Keep to speed limits; Not use a mobile phone

RULE #7: GROUND CONTROL

Before entering any underground working area I will ensure that the area has been declared/made safe.

RULE #8: EXPLOSIVES HANDLING

I will only put explosives to use if I am authorised, qualified, and certified to do so.

RULE #9: SHAFTS

I will only access a shaft bank or station area when permitted to do so by an authorised person.

RULE #10: ENVIRONMENTALLY FRIENDLY

I will shut off unused compressed air, water & power and prevent resource wastage or report it if I cannot deal with it.

There is a great future ahead of us – Din

By Victoria Kabwe Zimba and Ruth Mulenga

Konkola Copper Mines (KCM) Chief Executive Officer (CEO) Steven Din has commended the entire workforce at the mine for their resilience during one of the company's most difficult times.

Mr Din said employees from all sections of the mine put in plenty of efforts in 2017 to ensure that KCM pulled through a period of depressed copper prices, the lowest the price has been in 11 years.

The difficulties faced by the company in 2016 and 2017 prompted management to make a lot changes, he said during a corporate dinner held to introduce new KCM Board members in Chingola.

"I want to thank each and every one of you for all of the effort you have put in to get us to where we are. We have had a very difficult journey and all of you, whether you are in the main-stream operations or supporting operations, have contributed to us being able to get to 2018. We have a great future ahead of us," Mr Din said.

Mr Din said 2018 would be a big year for KCM and that the company had emerged stronger from the downturn of the metals markets.

"We have turned the corner. However, the journey ahead is still an uphill. So you've got to keep your resolve and make sure we continue to work together as we have been."

New Board Director Jacob Mkandawire, who is the Director of Investment and Debt Management (IDM) under the Budget and Economic Affairs division in the Ministry of Finance, said mining still remains key to the economy of Zambia through its contributions to foreign exchange and job creation.

Mr Mkandawire implored KCM employees to continue working as a team and push production up and to be good ambassadors of the company.

Mr Mkandawire hailed management and employees for their safety alertness.

"Let us ensure that mining enterprises will create benefits for all and contribute to the growth of the economy."



Flashback - Some employees attend a CEO Town Hall meeting in Konkola

Vedanta Chairman Agarwal sees growth for Africa mining

By Shapi Shachinda

Vedanta Resources Plc Chairman Mr. Anil Agarwal, has forecast a positive outlook for copper mining and other base metals in Africa.

During a panel discussion at the Mining Indaba conference in Cape Town, South Africa, Mr Agarwal emphasized the need to mine using global best practices, which include utmost care for the environment, focus on safety and the use of new technology. The theme of the discussion centred on “Africa and trends in the mining sector.”

Mr Agarwal said base metals mining in Africa, which includes copper mining for the case of Zambia,

continues to be on the rise as the world demand for various base metals keeps increasing.

“Copper still remains a darling of mining,” Mr Agarwal told delegates from different parts of the world.

The Chairman touted India, where Vedanta Resources has mining operations for metals such as Zinc, Aluminium, Lead, Silver, Iron Ore, and Oil and Gas, and Africa as regions where mining will continue to drive economic growth.

“I am optimistic about the future of the mining sector, particularly because of the renewed focus on environment and safety,” The

Chairman said.

He said all Vedanta Resources units would continue to focus on community programmes especially in their areas of operation. The Chairman is giving 75% of his personal wealth to trusts and foundations especially those that support women and children’s uplifting programmes.

Former minister of Mines and Minerals Development, Honourable Christopher Yaluma, held a meeting with Mr. Agarwal on the sidelines of the Mining Indaba where he reaffirmed the Government’s continued support to the mining sector and to Vedanta in particular.

Mr Yaluma, who is now minister of commerce, trade and industry, called on the company to quickly ramp up production at Konkola Copper Mines and help make Zambia as Africa’s leading copper producer.

Mr Agarwal also conducted a workshop with the KCM team led by Chief Executive Officer, Steven Din, on the KCM growth trajectory which involves producing 400,000 metric tonnes of copper per annum in the next four-five years.

The growth of KCM will be driven by ramp up of production at the Konkola Deep mine and reinforcing operations of the Nchanga Business Unit, which includes the underground and open pit mines and a Tailings Leach plant, as well as the smelting and refining business comprising the Nchanga smelter and Nkana Refinery.



Chairman Anil Agarwal

Photo focus on KCM events



General Manager Sustainability Anil Tripathi undergoes a Workplace wellness health check



Head of Engineering Ravichandran K. (10th from left) bid farewell to KCM after over 12 years at KCM to return to India, captured here with workmates at a farewell at Nchanga Directors Lodge



HZL & Base Metals CEO Sunil Duggal (left) explains a point as Associate Vice President Marketing & Supply Chain Rakesh Mishra (middle), Head Smelting & Refining Enock Mponda listen attentively at the Nchanga smelter during his visit to KCM



Vice President Nchanga David Ng'andu presents a gift to Ravichandran K. at the Nchanga Directors' Lodge



KCM Trust School pupils in bump and tussle exercises during the V-fitness launch



Konkola Upper Trust Primary School Football Team poses with Principal KCM Trust Schools Mabvuto Ng'ona (in glasses), Head Teacher Namakaliza Kazwala & Richard Chipuntama, the Head Nchanga Upper Primary Trust School



KCM Midwife Nurses at the Konkola Mine Hospital



CEO Steven Din (2nd right) his Executive Assistant Edmond Miyayi (left), CEO VZI Deshnee Naidoo & Vedanta Chairman's PA Nicola Gubbins (right)

KCM scores a first in mine quality certification

By Staff Writer

Konkola Copper Mines (KCM) is the first Zambian mining company to be upgraded to British Standards Institution (BSI) ISO 9001:2015 certification, the latest version of the internationally recognised ISO 9001 quality certification.

ISO 9001 is a globally recognized standard for quality management systems and a global identifier of excellence and commitment to quality products and services. The certification is also a requirement to sell copper on the London Metal Exchange (LME), the world centre for industrial metals trading.

General Manager for Special and Capital Projects Field Kondowe

congratulated the Quality management team for their diligence leading up to the upgrade and reiterated KCM's commitment to quality assurance.

"If you look at the KCM business policies, the company's commitment to quality and business excellence is highlighted in our Quality policy," Mr Kondowe said. "For the future, we are looking at better alignment between Quality and the Business Excellence functions so that the practice of continuous improvement gets embedded in our operations."

Acting Manager Quality Charles Tambatamba said the advantage of the new standard is its risk-focused

approach to quality management.

"The 2015 version is a risk-based thinking standard. You consider risks in production and before you even start doing anything, you put in controls. The same way we do a risk assessment before any job," he said.

Mr Tambatamba said that the upgraded standard would be important in KCM's plans to ramp-up production.

"It will give us insight to zero in on all problems before we even go into production and that will help in alleviating problems we face in the mine plants," Mr Tambatamba said.

Schools welcome Chingilila safety initiative launch

By Cynthia Kalaba

The Chingilila safety initiative has launched at Konkola Trust Schools with KCM Trust Schools Principal Mabvuto N'gona saying an adherence to safety rules will prevent injuries and even save lives in schools.

The launch at Kamenza Hall was for both the secondary and primary schools.

Mr N'gona explained that safety in schools was central to delivering quality education and good for the wellbeing of the learners and administrators.

The Principal said KCM would ensure its schools are always safe with advanced security procedures.

General Manager Safety Dr Carl

Max, said in a speech read for him by Manager Safety Martin Lombe, that the Chingilila safety initiative would allay fears of insecurity and unsafe learning environments for the students.

Mr Lombe implored teachers and pupils to start a day with a safety share in order to energise everyone and lighten the moods.



Pupils at Konkola Trust Secondary School during the launch of the Chingilila Safety awareness campaign at Kamenza Hall in Chililabombwe

Zambia can become a malaria-free country – Din

By Shapi Shachinda

Chief Executive Officer Steven Din has said Zambia can become a malaria-free country through the concerted efforts by the Government and the private sector to eradicate the killer disease.

Mr Din said Konkola Copper Mines, in conjunction with the Ministry of Health, has sprayed 54,257 households in Chingola, Chililabombwe and Nampundwe during the current intervention, which is the highest number of households covered since the launch of the KCM annual malaria residual spraying exercise in 2000.

The residual spraying programme is an effort to eradicate incidences of malaria in KCM's areas of operation as a way of promoting good health.

The company undertakes the exercise each year, but has in recent years conducted joint residual spraying programmes with the Government covering a wider catchment area beyond KCM areas of operation.

Health is one of KCM's four pillars of community social investments. Others include education, sustainable livelihoods and sport.

KCM has also made a financial contribution

towards the 2018 national Malaria Day Commemoration organising committee, which seeks to highlight the dangers of malaria, which according to the World Health Organisation (WHO) kills more people in sub-Saharan Africa than any other disease.

"At KCM we believe that the health and safety of individuals, be they our employees or members of different communities, should be a top priority. Our efforts to rid communities of incidences of malaria are driven by our passion to save life," Mr Din commented.

Mr Din added that, "We are glad that our efforts have paid off well in the areas where our medical team works with other health experts on various interventions of fighting the malaria menace. It is also clear that concerted efforts and pooling resources together can enable Zambia to be a malaria-free country."

Since KCM began to intervene in its areas of operation, malaria deaths have declined by more than 70 percent. The Government adopted KCM's malaria fight, which includes residual spraying of households, as a national model to try and stop the breeding of malaria causing mosquitoes in residential areas in mid 2000.



Health Minister Dr Chitalu Chilufya (2nd left) flanked by Central Province Permanent Secretary Chanda Kabwe speaks with the KCM team, Dr Janet Sikasote (3rd right) Brian Siatubi on her left and Fredrick Bwalya during the commemoration of the 2018 World Malaria Day in Kabwe.

Marketing team upbeat on KCM future!



The KCM Marketing & Logistics team

By Cynthia Kalaba

The marketing team at Konkola Copper Mines (KCM) has drawn a roadmap to support the company's growth trajectory and become an industry leader in their field.

Associate Vice President Marketing & Supply Chain Rakesh Mishra says the department's vision is to be the "most admired and reliable team" delivering value-addition to clients through best in class customer service.

Mr Mishra believes his team will deliver on plans of supporting the KCM Vision to become the "Pride of Zambia" through a robust marketing structure underpinned on benchmarking of Product and Process with the best in the industry. At a recent workshop, the department strategised ways to achieve the vision, which includes upskilling team members.

The team also plans to pursue top-dollar initiatives for value-addition and to digitalise its processes to become a "paperless department".

"We want to be the leading producer of quality cathodes and hence gain the benefit by deriving the right value of our product by placing it in the premium segment of the market," Mr Mishra said.

KCM Head Concentrate Procurement Evans Ngulube said there would be enhanced focus on third-party

concentrate procurement, which is key to KCM as it supports cash-flow.

Mr Ngulube said the custom concentrate procurement has been the highest ever in the history of KCM.

KCM Head Marketing Kumbukani Mugala said the marketing team was playing the role of brand ambassadors to global clients in addition to making sales of the company's products. He emphasized on value generation by producing premium products.

"Our proactive approach and timely responses towards the needs of the market will influence the performance of KCM," he said.

Marketing Business Controller Mulambwa Sikufele said the workshop provided a forum for exchange of ideas to enable the team to achieve its deliverables through Cost optimization and Net Sales Realisation (NSR) improvement.

KCM Head Logistics Friday Daka emphasised on the need for robust logistical infrastructure to support cargo movement in a cost-effective way.

Women in mining urged to push for progress

By Ruth Mulenga

Savenda General Insurance Managing Director Irene Muyenga has urged women to push for progress within their personal spheres of life.

During a Konkola Copper Mines (KCM) working breakfast organised by the mining firm, to mark the 2018 International Women's Day, Ms Muyenga said it was time for women to take steps to empower themselves and press forward at both workplaces and in the communities.

Ms Muyenga said women could still play significant roles and making valuable contributions to development than was currently the case.

She encouraged women to acquire higher educational qualifications and empower themselves to be able to take up decision-making positions.

"If you have to excel in your career, set your goals and explore your full potential," Ms Muyenga said, and added that women must support each other's progress in order to increase the number of women participation in governance.

KCM CEO Steven Din encouraged female employees to impose their gender in the male dominated business because organisations and society can perform better

when women realise their potential.

"Empowering women isn't just the right thing to do, it is essential to driving progress in our business, in our community and in our society," Mr Din said.

The CEO said the surest way to deliver on the Path to Growth at KCM was to empower women to maximise their potential.

KCM will continue to provide platforms that empower women in society as women empowerment is integral to the corporate philosophy, culture and environment, he said.

Mr Din said Vedanta was a signatory of the 'CEO Statement of Support' for the United Nations' Women's Empowerment Principles (WEP).

"I am proud to say that at KCM, we practice and promote equal employment opportunities. The base for KCM is copper production and the more women we can get into operational areas the better it will be for the company."

He commended women for the valuable contributions to the business and urged men not to discriminate against womenfolk.



Some of KCM women employees on International Women's Day

Employees mingle with the Vedanta Chairman Agarwal



Assistant Marketing Manager Kanyanga Kambole speaking about the prospects of KCM's growth at the Town Hall



Chairman Anil Agarwal chats with Manager Corporate Affairs (Lusaka Office) Akakandelwa Mubiana at the Zambia-India Business Forum



Chairman Anil Agarwal greets Associate Vice President Marketing & Supply Chain Rakesh Mishra on arrival for the Town Hall



Chairman Anil Agarwal greets General Manager Special & Capital Projects Field Kondowe



Chairman Anil Agarwal greets Manager Talent Expatriate Management Captain Yogesh Gaur



Lead Public Relations & Social Media Ruth Mulenga welcomes the Chairman Mr Anil Agarwal at the Nchanga Golf Club in Chingola for a Town Hall with KCM employees



Employees listen to the Chairman Anil Agarwal during the Town Hall in Chingola



A cross-section of employees listen to Mr Agarwal

Vedanta Chairman Anil Agarwal visit to Zambia in pictures



Mr Agarwal, flanked by Mines Minister Richard Musukwa (2nd left) & Permanent Secretary Paul Chanda greets Michael Chibonga, the Director - Mine Cadastre Unit



Chairman Anil Agarwal greets Priscilla Phiri the HCM Manager Corporate



Chairman Anil Agarwal greets Group Manager Safety Felix Sikaonga on arrival at Kasompe Airstrip in Chingola



CEO Zinc International Deshnee Naidoo addresses KCM employees during the Chairman's Town Hall

Positive attitudes have greater impact - Nurse

By Cynthia Kalaba

Nursing is a vital component to the health and well-being of people all over the world and nurses are hard workers, quick thinkers, adaptable to different environments.

"I have always been passionate about nursing and admired nurses, the career is rewarding," says Annie Mumba Mulinda as she narrates her 26-year journey as a Nursing Sister at Konkola Mine Hospital.

Ms Mulinda said stepping into someone's life at the low moments and making a difference to one's experience is an incredible privilege.

"I have learnt that positive attitudes are contagious. When you're passionate about your career, it shows! You can actually spread this energy to your colleagues, helping to create a supportive work environment all around you," she said.

"As an integrated health care provider, I care for the sick but also provide support to patients' families, friends

and loved ones," she says.

Ms Mulinda says it is pleasing when those in her care are satisfied with the service she provides, especially when they say, 'thank you nurse.'

Ms Mulinda explained that she has stayed up to speed with new trends in nursing care through training, attendance of seminars and conferences provided by KCM.

"One of my greatest achievements is undertaking my nursing career successfully and still being a good mother to my three children whom I have managed to educate up to university level through the incentives provided by KCM," she added.

She desires to be the best nurse driven by a passion to make a difference in other people's lives through kindness, the best possible care, collaboration with other nurses and the medical staff.



Anne Mulinda checks high blood pressure on a patient

Leaky Feeder system undergoes upgrades

By Cynthia Kalaba

KCM has upgraded the Leaky Feeder Communication System in order to ensure an industrial environment that can run productively, predictably, and with lower risks.

Manager Control and Instrumentation Moses Muleya said Leaky Feeder Communication System has the potential to bring forth huge improvements in both safety and productivity.

Mr Muleya explained that the system consists of a coaxial cable, which runs along tunnels, emits and receives radio waves by functioning as an extended antenna.

The cable is 'leaky' because it has gaps or slots in its outer conductor to allow the radio signal to leak into or out of the cable along its entire length.

Mr Muleya said that the Leaky Feeder system has

Ultra High Frequency (UHF), Very High Frequency (VHF) and five channels 1, 3, 4 shafts CATIII and emergency, which would enable miners from various shafts to select any channel for effective communication.

"In case of total power failure CATIII channel enables all personnel involved in the restoration of power activities to communicate effectively amongst themselves without any interruption from other operations," Mr Muleya explained.

The system has eased communication between underground production areas and engineering workshops enabling speedy communication on breakdowns, production concerns and safety incidents.

He said the aim of the leaky feeder system was to cover all areas of the underground mine and the network keeps extending as the mine develops.

TSS online Monitoring system Installed at 3150 level

By Cynthia Kalaba

Konkola Business Unit (KBU) has installed the Total Suspended Solids (TSS) online monitoring systems to monitor the efficiency of the underground settlers and pumps.

Manager Control and Instrumentation Moses Muleya explained that TSS was a visual indicator of water quality.

Mr Muleya narrated that when water comes from boreholes and underground operations through the drain drives, it goes to the sumps and settlers through the penstock area where filtration takes place.

He said that the TSS probe when placed on the Penstock area gives the common TSS values going to the sumps and settlers.

"The same settler can act as a thickener interested in the thick material and a clarifier if interested in the light material. We want to reduce TSS in the overflow," Mr Muleya said.

Mr Muleya said the Total Suspended Solids (TSS) probes are able to give both values of what is entering and leaving, sumps and settlers respectively.

The settler is more of a clarifier, which enables the overflow to go to the sumps and the solids to settle. Once the bed level rises, the settled material starts going to the sumps.

"We want to measure the efficiency of the settlers in real time, ideally the TSS entering the settlers should be lower than outlet TSS value, but it becomes a concern when the outlet TSS value is higher," he added.

Mr Muleya said that if the TSS value going out was higher than the one entering the sumps, the efficiency of the settlers can be calculated in real time.

"The system is meant to preserve the lifespan of the pumps and the efficiency of the pumps and real time as evidenced by the pump performance," he said.

Digital transformation roadmap sets in motion

By Ruth Mulenga

Konkola Copper Mines (KCM) has set in motion plans to digitalize the business which comprises deploying digitally enabled processes to perform or improve activities that have traditionally been carried out manually or with human-controlled machinery.

According to interim committee anchor, Field Kondowe, the innovation will involve the development of a centralised dashboard application that will collect and process real-time communication data.

Mr Kondowe said that this would improve the flow of information and facilitate quicker decision making, thereby improving productivity in the production value chain.

Mr Kondowe explained that digitalization would ensure improvements in managing the health of employees, safety, productivity, increase transparency and sustainability.

Digitalisation would make business sense for the interlinked operations not limited to Geology, Mining, Processing, Assets, Energy, Commercial, Finance, Human Resource, Logistics Environment and IT.

Mr Kondowe said it currently takes long to identify a problem in the production process but in a digital environment, information would be broadcast through a self-status wireless system.

Mr Kondowe said that management would be able to view the operations at the same time, making that process more efficient and competitive in the mining industry.

A recent digital transformation workshop for management staff enabled them to receive feedback on areas that need to be included in the migration process. Further training will be held for key staff.

Employees have shown great appreciation of the importance of digitization as a pathway to achieving higher productivity.

Nchanga Mine Manager Hastings Sholande said “As we embark on an exciting new phase of development, the company’s digitization programme will unlock unprecedented opportunities to drive efficiency and productivity at all levels.”

Head Electrical & Instrumentation at Nchanga Concentrator, Likonge Mulenga said, “It is a very good move as this will help to improve accountability, visibility of the production process, engineering, safety, environmental and utilisation of the equipment.



Vivian Chinzewe - Distribution Control System Operator at Nchanga Concentrator

International Women's Day

Some of the KCM Women attended a workshop to discuss the role of women in the growth of the company and the nation. Prominent executive Ireen Muyenga, the Managing Director of Savenda General Insurance was the Guest speaker. Below are selected photographs from the event in Chingola.



Finnish envoy lauds KCM's expansion plans



Finnish ambassador to Zambia Timo Olkkonen (far left) with a delegation of his country's business executives at the Nchanga Open Pit view point

By Victoria Kabwe Zimba

Finnish Ambassador to Zambia Timo Olkkonen says Konkola Copper Mines (KCM) plans to expand its operations and increase production to 400,000 tonne per annum is cause for optimism for the mining sector and the whole economy.

His Excellency Olkkonen spoke when he led a delegation of Finnish company executives on a tour of KCM operations in Chingola.

"It's been a very interesting and valuable visit. KCM's plan to invest more and expand operations is definitely a cause for optimism for the mining industry and Zambia as a whole. I can see that KCM clearly has a bright future in Zambia," he said.

Ambassador Olkkonen also commended KCM for investing in clean technology at the smelter as this was good for the environment, adding that, "the Nchanga Smelter speaks for itself. It is one of the cleanest in

the world. I think it's good for KCM and other mining companies to use efficient and clean technology in their operations."

KCM Chief Executive Officer Steven Din said the company had set in motion plans to ramp up production.

"Ramping up production will not only be beneficial to KCM but will also help Zambia to regain its top position as a copper producer in Africa which was lost to the Democratic Republic of Congo," Mr Din said.

The Finnish delegation is touring mining companies in Zambia and it includes Geological Survey of Finland, Robit, A-insinoorit, Business Finland, Ima Engineering, Sleipner and Normet. The delegation is in the country to explore business opportunities and strengthen existing business relationships with firms like KCM, which has procured a lot of technology and some equipment from Finland.

Anecdote of Kondwani's achievements in school

By Cynthia Kalaba

Nurturing future leaders is part of KCM's drive for support to education and young people like Kondwani Daka are aware of this important aspect.

"I am a proud beneficiary of the KCM scholastic awards," said 17-year old Kondwani, who got sponsorship from Grade 10 to Grade 12 under the scholarships scheme for high achievers in government-run schools.

Kondwani attended the David Kaunda Technical School, one of the best schools in the country, where he eventually scored six points in the final Grade 12 examinations.

"I aimed high and carried KCM's flag high by conducting myself in a unique manner and ensuring that I put in the best in order not to let down my sponsors," he said.

Kondwani also excelled in extra curricula activities and did a number of projects under the Junior Engineers Technician Scientist (JETS), and came out tops in metal works.

Kondwani took a keen interest in working hard and participated in most school programmes that helped to

sharpen his mind such as Olympiads in Biology and Gospel envoy.

He attests that winning awards in school prompted some people to find out who his sponsors were.

"I would like to study medicine and one would be wondering why a person who has conducted a lot of scientific projects would go for that. I am so passionate in assisting sick people," he said.

Mr Richard Daka, Kondwanis' father said, "It breaks the parent's heart to have a brilliant son and yet resources deny the son access to good and quality education."

Yet the sponsorship by Konkola Copper Mines was a dream come true for the family as he did not have enough money to send all his children to good schools.

"I commend Konkola Copper Mines for extending the scholarship to Government schools. Without the company's intervention we wouldn't be talking about the six points that Kondwani has attained," he said.



High achiever Debora sets eyes on studying medicine

By Cynthia Kalaba

Education lays a strong foundation for the personality of individuals and Debora Kapambwe has set the first step by completing her high school with the proverbial 'flying colours.'

Debora says her life changed completely when she received a KCM scholarship to study at Ndola Girls Technical School in 2014.

"It was my first time to leave home and be in a boarding school which was hard for me to adapt, but I quickly learnt to be responsible and stand up for myself and to be self-reliant," she recalls.

"I later realised that it was all about me proving to my sponsors Konkola Copper Mines that the Scholarship meant a lot for me," says Debora who scored six points in Grade 12 examinations in 2017.

Debora now yearns to study medicine so that she can make a meaningful contribution to health delivery systems.

"I have a heart to help the sick and I would want to be a solution to someone's problems," she confidently says.

Debora's father Kennedy Kapambwe is proud of his daughter's achievements.

"As a retired officer at the ministry of education, I believe that the school environment offers students a great opportunity to learn to work with others, which is very important," he said.

Mr Kapambwe has paid tribute to KCM supplementing parents and Government's efforts to deliver education to young Zambians.

"I wish to commend KCM for choosing the best schools for our children because they are more likely to succeed in academics," he said.



Col Mwenda lauds huge investments in the mining sector

By Cynthia Kalaba

Chief Instructor Army wing at the Defence Services Command and Staff College Colonel Joachim Mwenda has said the huge investment that Konkola Copper Mines (KCM) has made in technology at Konkola Deep Mine makes Zambia to be proud of its sovereignty.

Colonel Mwenda said nations rely on the strength of their national instruments of power, which comprise diplomacy, economy, the military, as well as technology. He was speaking during a tour of Konkola underground mine.

“We now have a deeper understanding of the broader aspect required of you as a strategic industry,” he said. “We are privileged to visit one of the most important (mines), which contribute to the strength of the nation.”

He commended KCM’s interventions of pumping out water at Konkola Deep mine, which is one of the world’s wettest operations.

“We will go back with the changed perception of what a miner represents in the national economy. I can assure you that the knowledge we have acquired from the tour will be put to good use and we are going to be your ambassadors in educating the whole world about the relevance of the mining sector to the national economy, he said.

Colonel Mwenda was impressed with the quality of water that is discharged into the Kafue River from the mining operations.



Senior Army Officers from the Combined Defence Forces in Zambia and other African countries prepare to go underground



A team of Combines Defence Forces from Zambia and other countries at Nchanga mine in Chingola

Chairman's Visit



L-R ExCo member Enock Mponda, DC Mary Chibesa, James Mufara (ExCo), Steven Din (CEO), Anil Agarwal (Chairman), Titus Tembo (Mayor), Sanjay Jain (ExCo), Deshnee Naidoo (CEO-ZI), Eugene Chungu and Keith Kapui (ExCo)



Chairman Anil Agarwal with KBU Director James Mufara and Head Smelting & Refining Enock Mponda



Director Projects based at Nchanga Business Unit Frank Russo-Bello speaks during the Chairman's Town Hall



Ears to the ground!



Management Trainee Crycentia Musonda explains the benefits of young professionals working for KCM to the Chairman Anil Agarwal



Senior KCM officials listen to the Chairman's address at Nchanga Golf Club



Senior staff listen to the Chairman - front row Group Manager Security Max Maona, Assistant Group Security Manager Operations Peter Mulenga, and Manager Security Nchanga Alick Iyela

Chililabombwe women increase vegetable supply

By Victoria Kabwe Zimba

Women farmers in Chililabombwe have emerged as the town's largest suppliers of vegetables following the launch of the KCM sustainable livelihood project in 2009, a senior government official has said.

Chililabombwe District Veterinary Officer Joshua Bwembya told **Konkola News** that the livestock support project, which saw KCM partner the NGO Village Water as implementing agent, and the government has helped to alleviate poverty in the district.

KCM empowered some households in Kanenga and Milyashi rural outposts of Chiliabombwe by giving 20 households 40 cows and two communal bulls, while the government trained them in animal husbandry. The women clubs also received goats and chickens for rearing. The animals have now multiplied to 150.

"We recommended Faithful Women's Club of Kanenga for the KCM project. Afterwards, we taught them how to use the animal's draft power for cultivation and how to milk the animals. As a result, there is improved nutrition and crop yield," Dr Bwembya said.

"The cow dung is used as manure for agriculture purposes... Kanenga is the backbone of vegetable

production in Chililabombwe," Dr. Bwembya added.

Dr Bwembya said the government has also set up a livestock service centre and constructed a dip tank, while a shelter for the farmers and sanitary facilities will be constructed.

In the 2016/17 farming season, the government included the Faith women's group, under the Farmer Input Support Programme (FISP), on its animal nutrition project and gave them six different types of fodder and forage seed such as Sun Hemp, Black Velvet Beans and Rhodes grass to grow on a trial basis.

The project will provide animals with food and clubs will be selling excess seed to commercial farmers. The Faith women's club emerged as the third best in the pasture growing category during the 2017 national Agriculture and Commercial Show in Lusaka.

"Kanenga has raised the profile of Chililabombwe in terms of livestock. Our plan is to set up offices and milk collection centres in the area. Kanenga has also been shortlisted to receive more animals under the government animal restocking project as soon as it is implemented," he added.



Women pick vegetables from a garden in Kanenga

Shimulala School enrolment aided by clean water supply

By Victoria Kabweimba

Clean water and good sanitation in schools contributes to high hygiene standards and good health among pupils, while inadequate facilities result in the spread of diseases such as cholera, gastrointestinal, neuro-cognitive and psychological illnesses, which then contribute to pupil absenteeism.

In Chingola, Shimulala Basic School has improved its learning environment and attracted back pupils who stopped attending school, since Konkola Copper Mines (KCM) commissioned a solar powered borehole at the school in 2016.

School Deputy Head Teacher Lucas Chabala explained that the school's first structure was constructed using wood and mud, with thatched roof.

"The Government then built a 1 x 2 classroom block and employed a set of trained teachers. That was not enough because the number of pupils was big. Another challenge was that pupils in grade seven had to walk over 10 kilometers to go and write examinations in Kalilo area. This discouraged many pupils, especially girls."

KCM then built a 1 x 3 classroom and 10 toilets for members of staff and pupils and the improvement in infrastructure made the school to qualify as an examination centre for grade seven and nine examinations.

Mr Chabala said, "The water project has cheered the school and community alike since its commissioning. Because parents are happy with the improved sanitation in the school, enrolment and pupil retention has increased especially for the girl child."

The school now has 463 pupils, with the majority being girls.

Grade nine pupil Jennifer Kapitiya, 16, said she decided to return to the school last year because of the improved water and sanitation and thanked KCM for installing the borehole.

"My elder brother and I left the school because the water was of poor quality and we used to regularly experience diarrhea outbreaks. Last year, I came back because we have clean water and I will write my exams here," Jennifer said.



A young girl samples the water at Shimulala Primary School in Chingola



An old woman draws water from a Solar powered borehole in Kakosa community of Chingola, Zambia

A positive outlook for the Nchanga Open Pits

By Ruth Mulenga

Nchanga Open Pit has engaged two local contractors to handle materials movement, Technical Manager Howard Banda has said.

Mr Banda said the contractors JV Chantete and KAVS were credible and experienced partners expected to boost operations for KCM to reach its full potential.

The contractors will enhance waste stripping and copper ore production from the Chingola Open Pit F and D and Nchanga Open Pit, Cut II.

He said the Open Pits required additional handling capacity of 10 million tonnes of material per annum to ensure smooth and consistent delivery of ore to the mills and processing plants.

Currently, the NOP total material handling capacity is around 26 million tonnes per annum.

He said the engagement of the two contractors will significantly help to improve Open Pit operations,

adding that, “they will help to lay a strong operational momentum in the 2018/19 financial year.”

Quite a significant scope has been identified to improve the operational efficiencies of the Open Pits in line with the company’s focus of improving production to 400,000 tonnes per year in the next four-five years.

Mr Banda said plans were in place to explore opportunities that lie in the satellite pits with the view of establishing bigger open pit mines.

“With a scale up expected in development, we will allow for a further improvement in sustainable production rates. We look forward to delivering a solid growth in the long term in line with the company’s Path to Growth plans,” Mr Banda said.

“The contractors have also created jobs for local people and brought additional skills for open pit mining,” he added.



The Nchanga Open Pit mine in Chingola

Engineering graduates return to KCM



The recently graduated VIT University students at the KCM Head Office in Chingola shortly after returning from India

By Ruth Mulenga

A team of 15 Engineering graduates has returned from India after successfully completing their four-year degree programmes at the Vellore Institute of Technology (VIT).

The graduates consisting of nine males and six females trained in Electrical and Instrumentation, Electrical and Electronics and Mechanical Engineering following scholarships awarded by Konkola Copper Mines (KCM).

This is the second group to graduate from VIT since 2010 when KCM started awarding scholarships to high performing students in the A-level classes.

Manager Learning and Development, Patricia Katongo, commended the graduates for their hard work and exemplary performance.

Ms Katongo, who welcomed the graduates at Simon Mwansa Kapwepwe International Airport in Ndola, said that KCM believed in giving talented individuals a chance to develop their skills.

She said KCM has made significant strides in the development of human capital, which was central to the growth of the company. The KCM scholarship programme symbolizes the company's commitment

to contribute to the development of Zambians in the mining industry.

"We want to empower our employees with the right skills and enhance the productivity and profitability of KCM. All sponsored students automatically become KCM employees upon completion of their studies," Ms Katongo added.

Retired miner, Dickson Kunda, whose two children have benefited from the programme, described the scholarships as a milestone in KCM's continued support to communities.

"I am a father of seven and educating my children has not been easy. I was happy to hear that my son had qualified for the scholarship to study in India. It lifted the burden off my shoulders," Mr Kunda said.

The graduates will be deployed on an 18-24 months management development programme across the business in order to be exposed and be mentored as they continue to build their careers.

KCM has also sponsored other students to study at the University of Pretoria, University of Zambia and University of Namibia.

Mines Minister calls for parity in mine rewards

By Ruth Mulenga

Mines and Minerals Development Minister Richard Musukwa says the investment climate in the mining sector is encouraging with production showing an upward trend.

Speaking in an interview with Konkola News after a tour of Konkola Copper Mines (KCM) operations in Chililabombwe, Mr Musukwa said there were multiple reasons for investors to feel positive about the future of the mining sector.

Mr Musukwa said mining investors should get a fair return on their investments, but this should be done by safeguarding the interests of Zambians.

He said, "Government is prepared to support the investors and ensure they get a fair return on their investments, but in our quest to do this, it will not be done at the expense of our people. Government is determined to ensure that the industry thrives by creating a win-win situation for the Government, people and the investors."

Mr Musukwa said there is need for mining firms to increase production to record high so as to enable Zambia regain its top status in terms of copper production.

He said the growth in the mining sector will

translate into more revenue for the country and will entail job security for the local people.

Mr Musukwa commended KCM and other mines for the massive investment in upgrading of mining infrastructure and replacement of obsolete equipment to improve production.

Mr Musukwa also said the mining sector should deliberately build capacity among local contractors and suppliers adding that Government would like to see equitable distribution of wealth.

Mr Musukwa said he was aware of the many challenges facing the industry and that he would be having meetings with respective mines to address some of the problems.

The Minister of Home Affairs Steven Kampyongo also assured the mines of Government support and secured business environment.

Konkola Business Unit Vice President Keith Kapui told the delegation that Konkola Mine in Chililabombwe has ambitious plans to raise production from 2 million to 6 million tonnes per annum.

Mr Kapui explained that Konkola mine has a large ore body of 11km with one of the richest grades in the world.



Vice President Konkola Business Unit Keith Kapui explains operations at the mine to Mines & Minerals Development Minister Richard Musukwa (2nd from right), and Home Affairs Minister Stephen Kampyongo on his right as other officials listen in