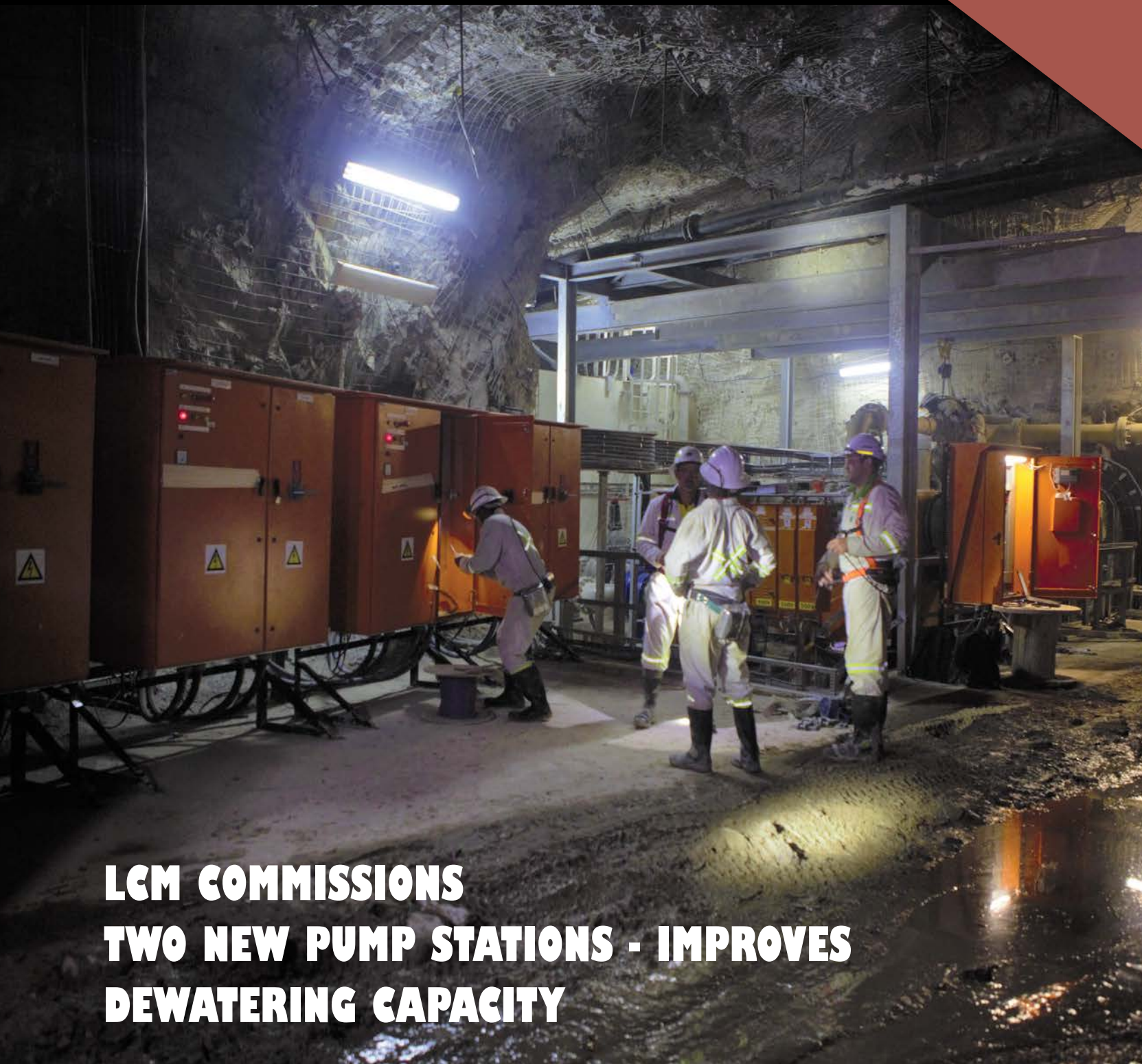


# THE EAGLE



*A Publication of Lubambe Copper Mine*

*Edition 4: July - September 2019*



**LCM COMMISSIONS  
TWO NEW PUMP STATIONS - IMPROVES  
DEWATERING CAPACITY**



# TABLE OF CONTENTS

|                                                                                                              |       |
|--------------------------------------------------------------------------------------------------------------|-------|
| CEO’s Message                                                                                                | 2     |
| Operational Summary – Quarter 3                                                                              | 3     |
| LCM Commissions Two New Pump Stations                                                                        | 4-5   |
| LCM Introduces New Operating Structures to Improve Operations                                                | 6     |
| New Pebble Crusher Set to Improve SAG Mill Throughput                                                        | 7     |
| Mine Records 6.6 Million LTI Free Man-Hours                                                                  | 8     |
| Health Watch: What is Blood Pressure?                                                                        | 9     |
| Donation of School Uniforms Empowers Vulnerable Children                                                     | 10-11 |
| LCM’s Menstrual Hygiene Management Project Yields Positive Results in Konkola Township                       | 12-13 |
| Konkola Secondary School Receives Facelift and Science Laboratory                                            | 14    |
| Mines Minister Lauds Lubambe’s Plans to Construct Second Mine                                                | 15-16 |
| President Lungu Describes EMR as Investor of Choice                                                          | 17    |
| Lubambe Mints Bronze at National Mine Rescue Competition                                                     | 18    |
| Lubambe Records Third Position at Inter-Company First-Aid Competition as Musukwa Prodes Mines to work Safely | 19    |
| Lubambe Signs Scrap Contract with Youth Cooperative                                                          | 20    |
| “The Biggest Room in the World is the Room of Improvement” – Owen Hegarty                                    | 21    |
| Lubambe Signs Training Contracts with TEVETA                                                                 | 22    |
| Lubambe New Staff Appointments, July – September 2019                                                        | 23    |
| Lubambe In Pictures                                                                                          | 24    |

# CEO's MESSAGE

The year 2019 continues to rush by and we are now in the last Quarter. In Quarter 3, up to the end of September, we had a mixed set of results.

Our Safety Performance was outstanding but on the Production front, we did not achieve our budget. I am concerned that we continue to miss our key production targets, especially in our Mining Operations. All of the new equipment has now been delivered and in Q3 we completed the major upgrade of our Underground Dewatering System. As such, production is now firmly in our hands. I urge everyone to put in an extra effort to ensure we lift our production to the required levels.

On the safety front, we continue to sustain our excellent performance. At the end of September, the Mine had worked 5.78 Million Fatality Free Shifts and 6.6 million Lost Time Injury Free Man Hours. Our last Lost Time injury was on 25th November 2018. Maintaining our clean record will see us achieve 1 year without a Lost Time Accident in Q4 which would be an outstanding achievement.

We have also seen some great results from our Mine Rescue and First Aid teams. In July, our Mine Rescue team was awarded 3rd place at the national Championship in Livingstone. This is a great result and a big improvement on our 6th place last year.

Importantly at Lubambe, we now have well trained and well-resourced Mines Rescue teams.

At the National First Aid Competition held in Solwezi in August, the Lubambe team came in at 3rd place out of all the teams across Zambia. This is another great achievement.

Although below budget, performance in Quarter 3 was generally an improvement to the previous quarter. All key performance measures improved from the previous quarter apart from head grade.

Total ore tonnes mined for the quarter was up by 11%. Copper produced increased by 9% to 5,982 tonnes.



One of our priorities this year has been to improve our dewatering capacity. In Q3 we achieved 2 milestones in relation to our dewatering system upgrade. The upgrade of Ramp 4 - 122ml pumping system was completed and the new Ramp 2 - 175ml pumping system was commissioned.

Overall, our underground pumping capacity has now been increased by around 80% to 47 mega litres a day. Our pumping capacity is now well in excess of the daily water inflows and as such flooding events will now be significantly reduced which will enhance our production capacity.

Our priorities for Q4 are:

- advance the declines in all ramps such that more stopping areas are accessed
- increase hoisted tonnes and copper produced

As we approach the end of the year, I urge all our employees and contractors to continue to work hard so that we can achieve our targets and close the year on a good note.

Enjoy your reading.

**Nick Bowen**

# OPERATIONAL SUMMARY – QUARTER 3

## July - September 2019

Performance in Quarter 3 was generally an improvement to the previous quarter. All key metrics improved from the previous quarter apart from head grade which was slightly below the previous quarter at 1.65%.

Head grade continues to be below expectations due to two main reasons. Firstly, high grade ore development from

the East limb is significantly behind schedule, meaning a larger than the planned amount (40%) of the ore for the quarter was sourced from Ramp 1 which is typically lower grade than development ore. Secondly, the stopes in Ramp 1 suffered higher dilution than was planned.

The priority for quarter 4 is to advance the declines in all

ramps such that more stopping areas are accessed. This will not only increase the overall mill head grade but also result in an uplift in tonnes hoisted. The key to advancing the declines at the right rate is ensuring we control and manage the water effectively.

| Operational Summary          |        |         |         |          |         |          |
|------------------------------|--------|---------|---------|----------|---------|----------|
|                              |        | Q3 2019 | Q2 2019 | Change % | Q3 2018 | Change % |
| Safety                       | LTIFR  | 0.00    | 0.00    | 0%       | 0.22    | -100%    |
|                              | TIFR   | 1.04    | 0.4     | 160%     | 1.6     | -35%     |
| Tonnes milled                | Tonnes | 449,825 | 406,913 | 11%      | 357,788 | 26%      |
| Mill head grade              | % Cu   | 1.65%   | 1.68%   | -2%      | 1.84%   | -10%     |
| Concentrator recovery        | %      | 80.75%  | 80.03%  | 1%       | 84.4%   | -4%      |
| Copper produced (contained)  | Tonnes | 5,982   | 5,469   | 9%       | 5,545   | 8%       |
| Ore metres developed         | Metres | 1,445   | 1,283   | 13%      | 2,321   | -38%     |
| Waste Metres Developed       | Metres | 1,929   | 1,492   | 29%      | 1,497   | 29%      |
| Total Metres Developed       | Metres | 3,375   | 2,775   | 22%      | 3,816   | -12%     |
| Stoping Tonnes Mined         | Tonnes | 353,559 | 319,654 | 11%      | 210,206 | 68%      |
| Development Ore Tonnes Mined | Tonnes | 89,519  | 78,581  | 14%      | 147,532 | -39%     |
| Total ore tonnes mined       | Tonnes | 443,078 | 398,234 | 11%      | 357,738 | 24%      |

# LCM COMMISSIONS TWO NEW PUMP STATIONS

*Dr. Galatia Dyson*

**L**ubambe has commissioned two new Pump Stations as part of its dewatering capacity improvement program. This follows the successful upgrade of Ramp 4 - 122ml pumping station and the construction of Ramp 2 - 175ml pumping station.

This development is part of Lubambe's strategic resolve to manage underground water.

When EMR Capital purchased Lubambe Copper Mine and took over operations of the facility in December 2017, one of the most aggressive encounters the mine was faced with was underground water.

The mine did not have enough

pumping capacity to handle the huge volumes of water generated from underground development and production areas. To mitigate this condition, the mine management put up a dewatering capacity improvement program.

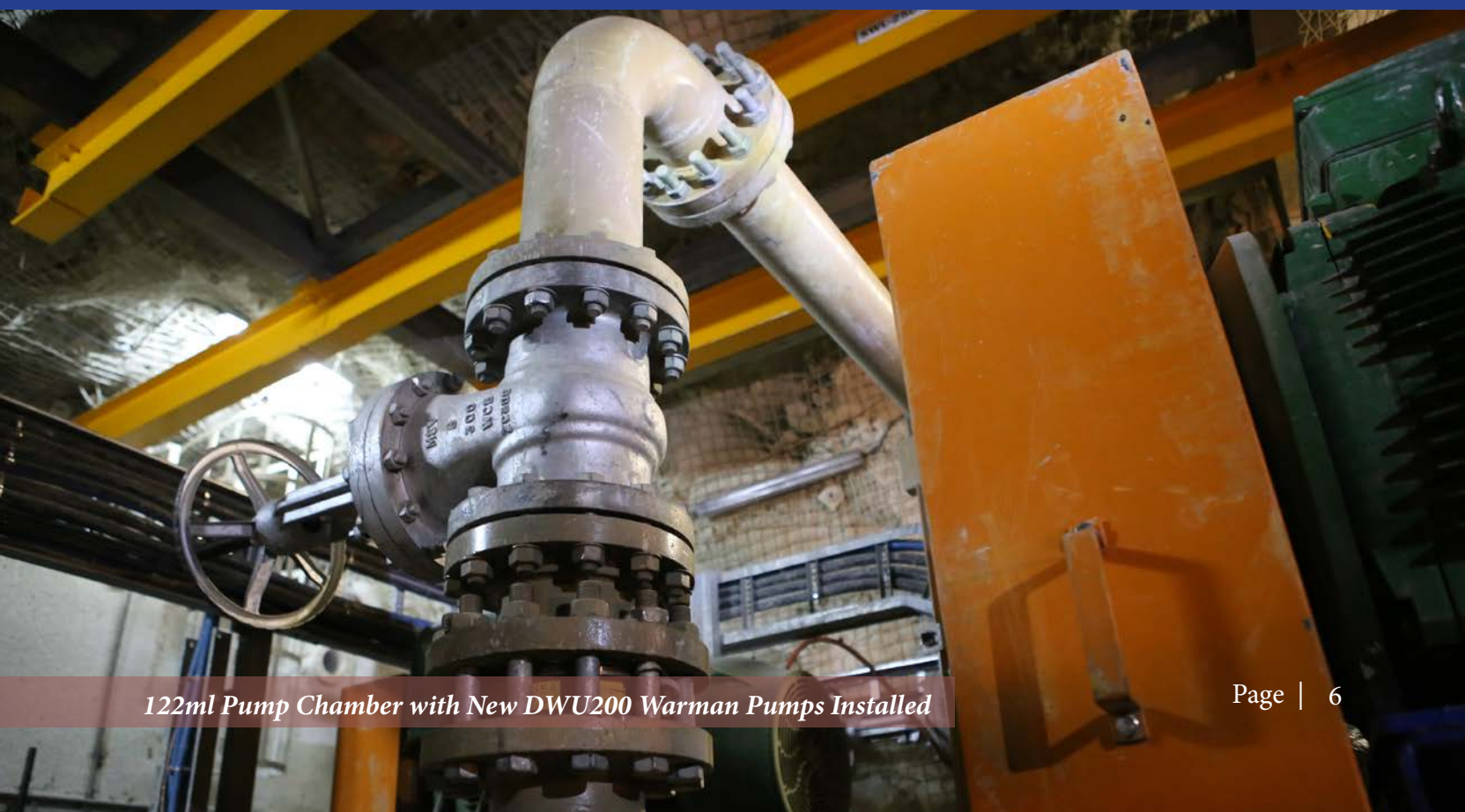
Among the plans set out to improve the pumping capacity was the upgrading of Ramp 4 - 122ml pumping station and the construction of the Ramp 2 - 175ml pumping station. These two projects have since been commissioned:

## **122ml Main Pump Chamber Upgrade:**

This project involved replacing all the three C5 Warman pump sets with the higher capacity DWU200 dirty water pumps.

This task also included the installation of the second 14" diameter steel pipe column from 122ml Pump station to surface through a mined raise: Previously there was only one discharge line from 122ml pump chamber to surface running along the decline, therefore, the installation of the second column has provided a duo benefit, increased pumping capacity and providing back-up in an event of failure in one column or major maintenance works on either of the streams.

The current expected volume of water to 122ml pump from lower levels is about 22,000m<sup>3</sup> of water per day. Without this upgrade, the dam could not handle the present volume and this could have led the mine to serious flooding.



*122ml Pump Chamber with New DWU200 Warman Pumps Installed*

## Ramp 2 – 175ml Pumping Station Construction

The new pumping station has been commissioned and equipped with two sets of DWU150 dirty water pumps. This system is pumping water directly to surface through a 10” column installed along the shaft.

The upgrade of Ramp 4 - 122ml pump chamber has increased the capacity from 20,000m<sup>3</sup>/day to 35,000m<sup>3</sup>/day with the new Ramp 2 - 175ml pump chamber providing a capacity of 12,000m<sup>3</sup>/day.

The mine has continued to invest in the dewatering project and the current project underway is the increasing of the pumping capacity below 122ml in all the three Ramps (Ramp 3,4 and 5). This will be followed by the construction of the Ramp 4 - 420ml main dam. The first phase of this mammoth project is expected to be completed by the end of 2020 with a projected capacity of 60,000m<sup>3</sup>/day.

Underground water control is a significant part of any underground mine. When mining below the water table, groundwater is an unavoidable encounter. On some mines, groundwater could be a minor impediment that can be dealt with on an ad-hoc basis. However, on other schemes, and in other geological settings, planning and execution of dewatering could be fundamental to the viability of the mine and may require very large resources and management intervention.



*Ramp 2 – 175ml Newly commissioned Pump Chamber.*

# LCM INTRODUCES NEW OPERATING STRUCTURES TO IMPROVE OPERATIONS

Mining is a venture that requires careful planning to achieve the best results. Though costly, it is a business that can yield great profits if well managed.

Lubambe has introduced new operating structures to increase production. The new system was introduced so that staff can be more focused on their operations for better results. The new operating structures include: Drilling and Blasting, Loading and Trucking, Material Handling and Roadway structures.

The Drilling and blasting structure was set up so that team members can focus on drilling and blasting of stopes only, while

the Loading and Trucking structure will focus on moving broken material (Copper Ore) from the stopes to the tips.

The material handling structure will focus on moving material from the tips to the stockpiles on the surface and the Roadways team will dedicate their efforts to maintaining underground roads for easy and speedy movement of all underground vehicles.

Mine Manager Alfred Ng'ambi says the old system posed challenges like divided attention on the part of operators because the structures were not clearly defined. With the introduction of the new

system, Ng'ambi is hopeful that the quality and quantity of Copper Ore will improve.

Lubambe is currently in its ramp upstage and the introduction of new operating structures is one of the initiatives to improve operations and increase production, in addition to the pump upgrade and the procurement of new equipment.

In April this year, the mine awarded two five-year mining development contracts to Red-Path Rig Resources and JCHX to speed up development works and consequently increase production.



Operations planning meeting in session

# NEW PEBBLE CRUSHER SET TO IMPROVE SAG MILL THROUGHPUT

Lubambe has installed a new Pebble Crusher to improve the SAG mill throughput. The installation of the Pebble Crusher is part of the on-going SAG Mill Improvement Project.

A Pebble Crusher is a machine that reduces screen oversize pebbles before recycling them back into the Semi-Autogenous Mill (SAG mill).

The installed Crusher comes with an Asri intelligence system which enables it to unchoke itself.

It will be incorporated on the milling circuit to crush the generated pebbles and increase the mill throughput and consequently eliminate the circulating loads. The SAG mill throughput is expected to increase by five per cent following the installing of the

Pebble crusher.

Metallurgical Manager Venus Kasito disclosed that the Crusher was procured because the initial design of the SAG mill discharge liners was changed from 25mm slots to 40mm, resulting in an increased discharge rate of pebbles and increased circulation load on the mill, which caused a negative effect on the overall throughput.



## *Newly installed Pebble Crusher*

Mr Kasito added that the installation of the Crusher will ensure that the mill performs to its full capacity of 331 dry tonnes per hour from its current throughput of 279 dry tonnes per hour, a result that has never been achieved since the commissioning of the plant in October 2012.

Other milling improvement projects that have been initiated by the mine include the Mill Star and Load Transfer Projects. Load transfer involves increasing the SAG mill discharge screen bottom size from 8x8 sqmm to 10x10 sqmm so that more coarse material is transferred to the ball mill instead of recycling it to the

SAG mill, while the Mill star reduces variability in the throughput.

The mine is currently in its ramp upstage to produce above 40, 000 tonnes of Copper per annum by 2021.

# MINE RECORDS 6.6 MILLION LTI FREE MAN-HOURS

Lubambe has recorded 5,780,151 progressive Fatality Free Shifts and 6,639,076 Lost Time Injury Free man-hours according to the SHE monthly report presented to management in September.

Lubambe CEO Nick Bowen has since congratulated the team for achieving more than 6.6 million Lost Time Free man-hours. He, however, reminded the team not to be complacent but sustain the good safety record.

The Mine has invested over US 1 million Dollars in safety and emergency preparedness initiatives and equipment.

Key safety initiatives at the Mine include:

- Engagement of Safety Champion management tool in the evaluation and monitoring of safety performance across the site
- Regular Management Visible Felt Leadership engagement
- SHE Improvement Strategy Action tracking and reviews
- Consistent engagement by the workforce in Near – misreporting.
- Review of past incidents
- Safety audits
- Procurement and installation of Safety Refuge Chambers



*Mines Operations Specialist Vincent Carr, Mine Captain Chris Muhau and Geotechnical Engineer Clement Kanyunya tagging off at the Tag Board*



*Safety field audit on mobile equipment by Safety Officer Mercy Kikuta Kashita*

# HEALTH WATCH

with Hellings Ngoma

## What is mental health?

The World Health Organisation defines mental health as the state of well-being in which an individual realizes his or her abilities, can cope with the normal stresses of life, can work productively and fruitfully, and is able to make contributions to his or her community.

In this positive sense, mental health is the foundation for well-being and effective functioning for an individual and the community.



## What is mental illness?

Mental - illness refers to mental health problems, symptoms and disorders, including mental health strains and symptoms related to temporary or persistent distress. As well as disturbance in the way of thinking, perceiving, feeling and behaviour unrealistic, and/or unpleasant to oneself and / or to others and the environment. This includes the inability to adjust and cope with the usual challenges of life situations and society. Loss of equilibrium between the individual and environment leads to detachment from reality.

In the third quarter of 2019, Chililabombwe District recorded the following mental illnesses:

- Alcohol induced Psychosis – 43
- Anxiety Disorders – 26
- Dementia – 13
- HIV induced Psychosis - 6
- Depression (which was found to be common among women) – 6
- Puerperal Psychosis - 5
- Baby Blues - 2

Factors contributing to the mental health continuum

### 1. Individual factors

- Positive self-worth, vitality, meaningful life, sense of harmony, positive identity, biological factors.

### 2. Interpersonal factors

- Effective communication, intimacy, helping others, a balance of separateness and connection.

### 3. Cultural factors

- Sense of community, support of diversity among people, intolerance of violence, adequate resources.

## Healthy Lifestyles

What we need in order to stay healthy:

- coping strategies, self-esteem, self-care, relationship with family members, friends and colleagues, good time utilisation, money, participation and cooperation, social clubs, religious groups, self-help groups and work.

### 1. Social

Life events, for example, bereavement, unemployment, chronic adversity. (eg. Poverty, domestic violence) and lack of social support.

### 2. Psychological

Learned helplessness, pessimistic cognitive approaches, an unhelpful learned pattern of behavior.

### 3. Physical

Genetic, endocrine disorders, nutrition, infection and drug abuse.

# DONATION OF SCHOOL UNIFORMS EMPOWERS VULNERABLE CHILDREN

Around Zambia, as is the case in much of Africa, children wear uniforms to school.

The cost of uniforms is one of the largest expenses, particularly for underprivileged families.

A World Bank Development Report of 2018 highlights that one of the largest challenges facing countries around the world is that children are not learning as they should due to various reasons.

According to the World Bank, school fees are among the ma-

ajor obstacles to universal primary education in developing countries. Several countries in sub-Saharan Africa have taken strides towards meeting the Millennium Development Goal of universal primary education by 2015 by eliminating school fees, but other significant costs remain, including the cost of providing a school uniform for a child. Many governments and NGOs have sought to overcome this barrier by offering free or subsidized uniforms to vulnerable students.

Realising the need to empower

young people with good education, Lubambe has come to the aid of 113 vulnerable children at Miyanda basic school by offering them free uniforms. Before the donation, some children like 10-year old Mary Kalembe had missed school for three months because she did not have a uniform.

Mary is thankful that Lubambe gave her a uniform because she will now be able to go to school every day without the shame of wearing a tattered uniform.

Mary's mother, Roydah Maluma says her daughter missed classes for an entire term because she could not afford to buy a uniform for her daughter.

Maluma, who has four other children who are in secondary school has been unable to fully provide for them because she has no steady income and relies on her daily vegetable sales at the market.

A grateful Maluma thanked Lubambe for the kind gesture and urged the mine to continue supporting other vulnerable children in Konkola township.

She appealed to the mine to continue helping and encouraging young girls to remain in school so that the community can have more educated women in the years to come.



*Mary Kalembe with her mother Roydah Maluma after receiving her uniform at Miyanda School in Konkola*

The Mine donated 113 school uniforms to orphaned and vulnerable school going girls at Miyanda Primary School in Konkola in August this year.

Speaking during the donation, District Education Board Secretary Musakula Mwansa urged parents and

the pupils to ensure that the uniforms were well kept.

He thanked the mine for the gesture and was optimistic that Lubambe would donate more uniforms so that more children would benefit.



*From left to right: Lubambe's CSR Manager Lomthunzi Mbewe handing over a uniform to a pupil at Miyanda School, looking on is Chililabombwe DEBS Musakula Mwansa who received the uniforms on behalf of the Ministry of Education. On the far right, is Miyanda Primary School Head Teacher Chrispin Mwewa.*

Lubambe CSR Manager, Lomthunzi Mbewe, emphasised the need for girls to stay in school in order to attain equal status with men in society.

On August 21, the mine bought three sewing machines for Tilitonse Women's Club. The club was then awarded a contract to sew uniforms for the pupils at Miyanda Primary School as a way of

empowering them to start their own business

Miyanda Primary School has a total of 437 learners, 203 girls and 234 boys.

# LCM'S MENSTRUAL HYGIENE MANAGEMENT PROJECT YIELDS POSITIVE RESULTS IN KONKOLA TOWNSHIP

Although Zambia has made some strides in championing women's empowerment, there is still a lot of work to be done to realise equity in economic opportunities for women. Women consistently trail men in formal labour force participation, access to credit, savings rates, income levels, entrepreneurship rates, as well as in inheritance and ownership rights.

Research by many international development organisations shows that putting economic resources in women's hands is the best way to accelerate development and sustainably reduce poverty.

Women are known to invest in their families and communities significantly more than men, consequently spreading wealth and increasing the quality of life for themselves and their families.

According to studies by Self Help International, Women reinvest 90% of their income into the family, compared to 30 to 40% by men. This means that women spend more on their children, food, shelter, and education - which creates long-term social and economic gains for their communities. This makes them an integral part of ending the cycle of poverty. In fact, if women had the same access to productive resources as men, they could increase yields on their farm by 20 to 30%.

Lubambe is fully cognisant of the need to empower women. Through its CSR programmes, the mine recently launched a programme deliberately tailored to help women become self-reliant and lift them out of their vulnerability.

"It all started with training in financial literacy which helped to make us understand how to better manage our businesses and households, little did we know that bigger things were to come," says Betty Nguni, a representative and member of Tilitonse Women's group.



*Betty Nguni a member of the Tilitonse Women's Club showing off her newly made re-usable pads*

Tilitonse Women's Group consists of 24 women from Konkola Community in Chililabombwe District. Twenty (20) members have been trained in financial literacy by Lubambe in conjunction with Copper Rose, a youth and women-led organisation. The women have also been empowered with three sewing machines and taught how to use them to make re-usable pads for sale to women and girls in the community.

The group has now started a sanitary wear business and makes between 400 - 500 re-usable sanitary pads per month which are sold at K20 or K25 each.

Betty Nguni, a member of the group says she and her friends are now able to support their families with the profits from their business. Any surplus money is ploughed back into the business so that it can grow. Plans are underway to extend the business to beyond Konkola and Chililabombwe.



*Rotansi Kakulumuki sewing re-usable pads with the new sewing machine donated by Lubambe*

Apart from the profits coming from the business, Betty and her group also understand the need to assist women in menstrual hygiene management.

“Most women have now found purpose and are ready to transfer the skills acquired to other women and girls in the community so that the cooperative can grow”, said Betty.

Tilitonse women’s club also has plans to diversify their business. The cooperative has in the past received training in fingerling production and just recently, was awarded a contract by Lubambe to sew 113 uniforms for orphaned and vulnerable children at Miyanda Primary School.

Lubambe is supporting women empowerment programmes and ensuring that the needs and interests of women and young girls in the community are taken care of.

With such support, it is expected that young girls will be encouraged to attend school regularly and complete their education while the women will be imparted with life skills that will contribute positively to their well-being.

On October 2 this year, the Zambian Parliament unanimously endorsed a private member’s motion urging the government to provide adequate sanitation and sanitary towels to all girls in public schools so that they could regularly attend class without hindrance and complete their education.

# KONKOLA SECONDARY SCHOOL RECEIVES FACELIFT AND SCIENCE LABORATORY



*Konkola School before painting*



*Konkola School after painting*

Built in 1956, with a student population of 945, Konkola Secondary School has never undergone a major facelift since construction. Although it is the only secondary school in the area, Konkola School has not even had a laboratory.

Lubambe has come to the rescue of the school by painting the school and signing a contract to construct the science laboratory.

Community and Stakeholder Relations Manager Lomthunzi Mbewe says all this is part of Lubambe's School Improvement Project.

This project will enable students to fully grasp science-related subjects and conduct lab experiments and practicals.

Apart from the construction of a science laboratory which will cost US\$28,753.16, Lubambe has embarked on a school beautification project. As part of its plans, the mine will provide paint and construct

a 1 x 3 classroom block, and an ablution block at the same school.

Mbewe said that Lubambe's aspiration was to roll out similar infrastructure developments to Miyanda and Kasapa Primary Schools.

Lubambe Copper Mine also supports adult literacy education in all three schools. The support is in the form of payment of allowances to teachers and payment of examination fees for grade nine learners. All these initiatives are aimed at increasing literacy levels in the community.

In addition, the introduction of a School Environment and Education Development Programme (SEEDP) at Konkola Secondary School is under discussion. The programme will include the introduction of new career pathways in agriculture, gardening and woodwork programmes. This programme is also meant to equip learners with life skills that will improve their livelihoods.

# MINES MINISTER LAUDS LUBAMBE'S PLANS TO CONSTRUCT A SECOND MINE

**M**ines Minister Richard Musukwa is pleased with the planned development of a new mine at Lubambe as it will, if successful, have a positive impact on the economic development of Chililabombwe, the Copperbelt and the nation.

Honourable Musukwa noted that plans to extend the life of Lubambe by building a second mine not only have the potential to create jobs for local people but business opportunities for Zambian contractors and suppliers, thus generating new revenues for the Treasury.

Speaking at the official opening of Lubambe's Corporate office in Lusaka on July 17, Honourable Musukwa also urged Lubambe to ensure that a significant portion of expenditure of the Extension Project supported the growth of local contractors. The Minister was confident that the opening of the Lusaka office would not only help to accelerate the pace at which the Extension Project would be implemented but also enable Lubambe to interact with Government institutions for the implementation of development programmes.

"Because of your proximity to key Government and regulatory offices, it will be much easier for your project team to push for approvals necessary to support the project", Hon. Musukwa said.

Lubambe has opened an office in Lusaka, housing its Corporate and Project Offices.

"Although Government has been pushing the economic diversification agenda, mining would continue to be the mainstay of Zambia's economy for a long time", Hon Musukwa said. It was, therefore, the Government's desire to see that the mining industry was well supported and positioned to contribute to Zambia's economic and social development.



*Mines Minister Richard Musukwa delivering his speech during the opening of Lubambe's New Corporate Office in Lusaka*

"Where we have different positions and opinions over various issues that affect the industry, I wish to urge you and all other mining houses to continue with the culture of constant dialogue with Government so that such issues are resolved amicably", Hon. Musukwa advised.

Speaking at the same occasion, Lubambe Board Chairman Owen Hegarty said the Board of Lubambe was looking forward to the realisation of the world Class Extension Project which he said would change Lubambe and Zambia.

Hegarty noted that having been involved in the development of mines across five continents, experience had shown him that taking the Extension Project forward would require a tremendous amount of hard work, determination and fortitude. "And here the critical role of our partnership with government and its institutions are of paramount importance", he said.

**H**egarty added that EMR was committed to contributing to the development of Zambia's mining industry and ultimately the country's economic development. "Our commitment can be seen through the efforts that we are making towards improving operations and production at the existing mine. We have invested in the procurement of new equipment, the upgrade of our water pumping system as well as in mine development as we continue to grow our production," Owen summed.

And Lubambe CEO Nick Bowen said that while Lubambe was proud of its existing mine, there was a realisation that the future of Lubambe lay

in developing the exciting, new, deep underground resource that has been discovered in the existing lease area located South-East of the existing mine.

Bowen noted that the Extension area boasted one of the world's most significant undeveloped copper deposits, with an estimated resource of 212 million tonnes of Copper at a grade of 3.6 per cent.

"This represents some of the highest-grade unmined mineralisation in the Copperbelt and equates to 7 million tonnes of contained Copper – a truly world-class resource", Bowen said.



*From left to right: ZCCM – IH CEO Mabvuto Chipata, Lubambe Board Chairman Owen Hegarty, Lubambe CEO Nick Bowen and Mines Minister Richard Musukwa singing the national anthem during the opening of the Lusaka Corporate Office*

# PRESIDENT LUNGU DESCRIBES EMR AS INVESTOR OF CHOICE



*H.E President Edgar Lungu with Lubambe Board Chairman Owen Hegarty at State House*

**R**epublican President Mr Edgar Lungu has described EMR Capital, the owners of Lubambe mine as an investor of Choice.

The President has pledged to protect the investment of EMR Capital in Zambia and to foster an ideal relationship with Lubambe mine. The Head of state was speaking at State House on July 19 when EMR Capital Board Chairman Owen Hegarty paid a courtesy call him.

The President encouraged EMR to always act in good faith and the promote a culture of dialogue with Government. “A lesson for you is to avoid arm twisting tactics whenever there is an issue in the mining industry. Let us sit down and talk whenever there is an issue”, the President said.

In reference to concerns over Government’s proposal to introduce Sales Tax, President Lungu said Government’s desire was to have a stable tax regime that would be in the interest of all stakeholders.

“It is possible to achieve stability in the market, flexibility should exist and all of us must aim for a win-win situation.” The President said.

And EMR Capital Board Chairman, Mr Owen Hegarty expressed gratitude to the President and the people of Zambia for Hosting EMR Capital as majority shareholders of Lubambe Copper Mine. Hegarty who is also Lubambe Board Chairman said it was an honour for EMR to operate in Zambia. Lubambe is EMR Capital’s only operation in Africa. The private Equity Fund owns and operates 7 other operations around the world in 4 major commodities namely: Copper, Gold, Coal and Phosphate.

He noted that EMR had been welcomed by key stakeholders in Zambia who included: employees, partners, industry players and the community, a development he said was positive for the Australian firm.

“The welcome we have received from Zambians gives us the confidence to do more and increase the volume of production at our existing mine”, said Hegarty.

The Lubambe Board Chairman said

EMR’s vision was to mine safely, reduce the unit cost of production, protect the environment and care for the community.

Hegarty also disclosed that Lubambe was exploring the possibility of constructing a second mine close to the existing mine. He noted that indications were that the unexplored mine area was hosting a huge resource of high grade. The future of Lubambe he said lay in the Extension Project. Hegarty who has worked in the mining industry for over 50 years assured President Lungu that EMR was a responsible investor who was keen to contribute to Zambia’s development.

Speaking earlier, Lubambe CEO Nick Bowen indicated that Lubambe’s performance had continued to improve since EMR took over operations of the mine in December 2017. He said the Mine’s plan was to increase production by 40 per cent by 2020.

Mr Bowen was delighted that the Company’s safety performance had continued to improve following a number of safety initiatives that had been undertaken.



*The Lubambe 2019 First-Aid team with Mine Manager Alfred Ng'ambi and SHE Manager Daniel Chihili*

## LUBAMBE MINTS BRONZE AT NATIONAL MINE RESCUE COMPETITION

The Lubambe Copper Mine Underground Emergency Response Team emerged third out of the initial 21 teams that enlisted for the final competition of the National Mine Rescue Competition under the auspices of the Zambia Chamber of Mines.

This was the second time the team was participating in the competition and has surprised many at the pace of development and competency after being in existence for only 4 years. The Lubambe Emergency Response Team was formed in 2014.

The Zambia Mine Rescue Association under the Zambia Chamber of Mines (ZCM) held the National Mine Rescue competition from 22nd to 26th July 2019 at the Zambia Electricity Supply Corporation (ZESCO) Victoria Falls Hydro Power Station in Livingstone.

The seven teams that made it for the finals out of the initial 21 included CLM-Luanshya Mine, Mopani-Nkana, Mopani-Mufulira, NFCA-Chambishi, Lubambe Copper Mine and Konkola Copper Mines-Nchanga.

Konkola Copper Mines (KCM) Nchanga team B emerged as winners, while Mopani-Mufulira team B were runners up and the third position was taken up by Lubambe Copper Mine team A.

Speaking at the Prize giving ceremony, Zambia

Chamber of Mines Chief Executive Officer Mr Sokwani Chilemba thanked ZESCO for hosting the competition.

He further announced that the Chamber of Mines and Mopani Central Training Centre (MCTC) and Technical Education, Vocational and Entrepreneurship Training Authority (TEVETA) approved that the institution would sign a Memorandum of Understanding (MoU) for MCTC to take up Mine Rescue training in Zambia.

He added that the goal of the Chamber of Mines was to ensure that Mine Rescue services benchmark with regional and international best practices.

Speaking at the same event, Zambia Mine Rescue President Mr Maron Chongo congratulated the winners and encouraged all participating teams to continue working hard.

Mr Choongo also thanked MineArc Systems the main sponsor of the 2019 National Mine Rescue Competition for sponsoring Mine Rescue Competitions since 2015.

The 2019 winners, KCM-Nchanga team B, will represent Zambia at the International Mine Rescue Competition to be held in Australia in 2021.

# LUBAMBE RECORDS THIRD POSITION AT INTER COMPANY FIRST AID COMPETITION AS MUSUKWA PRODES MINES TO WORK SAFELY

Every year, hundreds of miners die the world over from injuries sustained in mine related accidents. Zambia is no exception, the country recorded a total of 12 fatal accidents by the end of the second quarter of 2019.

Mines Minister Hon. Richard Musukwa observed that although mining was a hazardous business by nature, it could be done safely. Honourable Musukwa has challenged the Zambia Chamber of Mines to ensure that mining becomes a safe business in Zambia. The Minister was speaking on August 17 when he officiated at this year Inter- Company first

Aid Competition hosted by First Quantum Mine (FQM) in Solwezi.

Hon Musukwa reminded mining houses of their obligation to guarantee safety to all their employees and to abide by mining and safety regulation He observed that mining could become a very attractive industry particularly in the era of new and advanced technology as he challenged the Chamber of mines to promote good safety practices in the mining industry.

“We must go beyond the best principles and embrace zero tolerance accidents. No job should be done at the expense of safety,”

he said.

Hon. Musukwa noted that First Aid was, therefore, key to the mining industry because it offered the first assistance to an injured employee at a place of work. The minister added that Government was gratified that the Chamber of Mines had continued to host the First Aid Competition over the years.

The 2019 First competition was being held for the 14<sup>th</sup> time under the theme: “First Aid, for everyone, everywhere”.



*The 2019 Lubambe First Aid Team*

“When we gain necessary skills to save lives through such competitions, we are all winners and there is no loser,” He said.

FQM Specialist Dr Goodwin Beene said FQM was happy to host the life saving Event. He said the First Aid competition offered

mining houses an opportunity to gauge their preparedness in the case of an emergency.

The First Aid Competition was won by Mopani Security of Nkana who got 81%. The second position went to FQM MD team 1 who got 80% while Lubambe

also got 80% but in the third position. The FQM team beat Lubambe after garnering more points in the Scenario test score with 246 points while Lubambe got 221 for the same scenario test.

Lubambe has signed a one-year contract with a youth cooperative, Lagom Multi-purpose Co-operative for the procurement of scrap metal from the Mine.

The signing of the contract with the youth Cooperative with membership from Chingola and Chililabombwe is part of Lubambe's Youth Empowerment Programme.

Speaking at a Press Briefing at the Mine on August 28, 2019, Communications Manager Loyce Saili said that the signing of the contract would result in the direct employment for 18 unemployed youth in the two mining towns as well as building the financial capacity of the Cooperative.

She said the contract would enable the cooperative to procure scrap metal from the mine and resale it to foundries and Mill Ball Suppliers.

Speaking at the same event, Lagom Multi-purpose Cooperative Secretary Kennedy Shalo said that Lubambe's gesture was a welcome move and that the Cooperative would do its best to ensure that more youths benefited.

He said with the K100, 000 credit facility from Lubambe, nothing would stop the cooperative from becoming financially stable and contributing to the development of young people and the country.

The mine has initiated other youth empowerment programmes in Konkola Township such as horticulture, fish farming and the awarding of a cleaning contract to Konkola Youth Formular Cooperative. The cooperative is paid monthly to keep the community clean.

In addition, the Mine has also embarked on a vendor evaluation exercise which will help to identify Zambian Suppliers/Contractors to work with.

This exercise entails the gathering of information on products and services offered by local businesses in order to ascertain their capacities

The initiative will also help in increasing the local spend on locally owned businesses and ascertaining credible suppliers that the Mine can work with. Once the exercise is completed, the mine plans to increase business dealings with identified Suppliers/Contractors and support their participation in tenders being offered.

# Lubambe signs scrap contract with Youth Cooperative



Supply Chain Manager Wilma Nyondo shaking hands with Lagom Multi - purpose Cooperative Secretary Kennedy Shalo after signing the contract



From left to right: Lagom Multi - purpose Cooperative Secretary Kennedy Shalo, Lubambe's Supply Chain Manager Wilma Nyondo, CSR Manager Lomthunzi Mbewe and Communications Manager Loyce Saili addressing journalists during a visit to the scrap yard



Youths from Lagom Cooperative sorting out scrap at the Lubambe Scrap Yard

# “THE BIGGEST ROOM IN THE WORLD IS THE ROOM OF IMPROVEMENT” – OWEN HEGARTY

**L**ubambe Board Chairman Owen Hegarty says the biggest room in the world is the room of improvement.

Hegarty who is also EMR Capital Chairman has also commended Lubambe Management and employees for an outstanding safety performance. Hegarty was speaking at Lubambe Mine on July 16 when he addressed members of staff and management. Hegarty was particularly pleased that the mine had worked 4.6 million Lost Time Injury (LTI) Free Hours at the end of June.

“I wish to congratulate the management and all staff on an outstanding safety performance. A good safety, health and hygiene record is key to us sustaining our operation”, said Hegarty.

Hegarty also commended the mine for recording improvement in Copper production. He noted that improvements had also been recorded in the upgrade of the electrical and pumping systems as well as improvement to the roadways underground.

Although the mine had recorded a number of positive developments, Hegarty observed that “the best was yet to come for Lubambe”. He said even though management and workers had recorded significant improvements in these areas, there was still room for improvement.

Hegarty pledged his full support to the mine as he believed that the operation was sustainable and had the capacity to become the best mine on the Copperbelt and in Zambia.

“We will be there to support you and get you to be the best performing mine on the Copperbelt and in Zambia.

Hegarty encouraged the management team and workers to ensure that they managed costs in order to break even and sustain the operation.

Hegarty and other Board members visited Lubambe as part of their periodic inspections to monitor and review the performance of the mine. The board checked on performing and non-performing areas of the mine as well as governance issues.

And Lubambe Chief Executive office Nick Bowen was happy to welcome the Board. Bowen on behalf of the management team pledged to work hard to ensure that Luabambe lived up to the expectations of shareholders.

“We are here to deliver for our shareholders”, Bowen said.

Hegarty and other EMR Directors were in the country from July 16 to 19.



*LCM Board Chairman Owen Hegarty (R) with other board members and Lubambe staff during the tour of the mine*

# Lubambe Signs Training Contracts with TEVETA



*Concentrator Training Coordinator Eng. James Kasanda (FIEZ) appending his signature to the contract at the signing ceremony in Lusaka. Looking on is NORTEC Principle Victor Mulenga (R) and TEVETA Director-General Dr Cleophas Takaisa.*



*A training session facilitated by NORTEC at Lubambe*

The Mine has launched a Skills Development Training Programme for Lubambe employees aimed at enhancing and improving employee competencies through work-based learning programmes.

The training programme which commenced in August this year involves short courses to be delivered either at Northern Training College (NORTEC) or Lubambe Mine Site.

The signing of 10 contracts took place on July 12, 2019. The con-

tracts are meant to upgrade employee skills and close identified knowledge gaps by sharpening employees' skills and knowledge in line with changing production processes and technological advancements.

Some of the signed contracts include: Programmable Logical Control (PLC) Phase 1, Basic Hydraulics in Automotive and Industrial Application, Coded Welding and Process Control Instrumentation.

Ministry of Higher Education

Permanent Secretary Mabvuto Sakala, TEVETA Director-General Dr Cleophas Takaisa and Lubambe's Concentrator Training Coordinator Engineer Kasanda James Kawele (FEIZ) and Philemon Kaminna, Engineering Training Coordinator, all witnessed the signing ceremony in Lusaka.

# LUBAMBE NEW STAFF APPOINTMENTS, JULY-SEPTEMBER 2019

We at Lubambe believe in hiring the best people, to do quality work, on budget and on time.

During the third quarter, we hired the following employees:

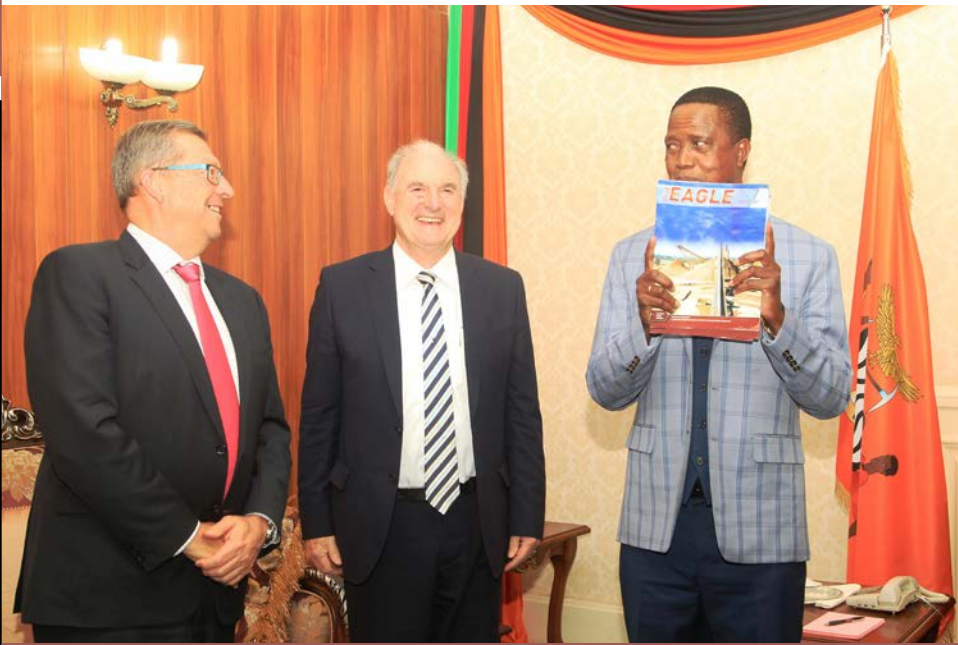


Ross Markel  
Jacques Engelberch  
Kingsley Kaliye  
Brian Chama  
Michael Banda  
Rodgers Kayombo  
Charles Chilando  
Mark Neilsen  
Gavin Mwape  
Axel Chinyama  
Francois Bensch  
Chembe Chipungu

Fortune Mumba  
Future Muzungaire  
Gideon Sikamba  
Craig Thomas  
David Wright  
Brian Nkole

Mine Operations Specialist  
Project Engineer  
Instrumentation Technician  
Draughtsman  
Human Resources Officer  
Learning and Development Superintendent  
Contracts Superintendent  
Mine Operations Specialist  
SHE Systems Superintendent  
Senior Geotech Technician  
Project Controls Manager  
Corporate Reporting Analyst

Employee Logistics Superintendent  
Employee Relations Superintendent  
Environmental Superintendent  
Business Coordinator  
Mining Engineer  
Heavy Equipment Repairer



President Lungu after receiving a copy of the Eagle from Lubambe Board Chairman Owen Hegarty at State House



Tilitonse women's group after receiving sewing machines from Lubambe



Lubambe drama group performing during the August Ukusungana Mass meeting



Barclays Bank PLC Managing Director Mizinga Melu with Zambia Revenue Authority (ZRA) Commissioner General Kingsley Chanda at the opening of the Lubambe Lusaka Corporate Office



The Lubambe team receiving awards at the National First Aid competition in Solwezi



Skip assembly at the shaft  
(installation of cluster frames on the bridge)



LCM Board Chairman Owen Hegarty (M) with Lubambe Chief Financial Officer Eustus Munsaka and Communications Manager Loyce Saili walking out of State House after a meeting.



