



MCL NEWS

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A WALK DOWN MCL MEMORY LANE

HIGHLIGHTS

MCL Inaugurates Executive Quarters

Maamba Pre School Gets a Facelift

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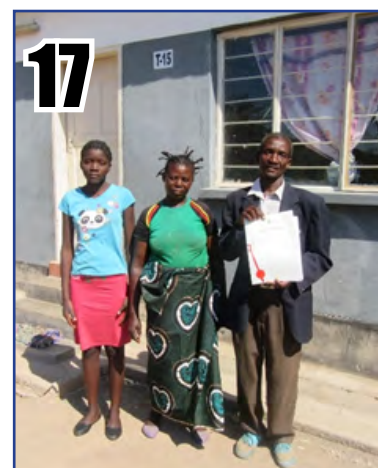
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 Mayford Chikoya
 Patrick Nalumino
 Jethro Sikalunda



On the cover

MCL Metamorphosis - Then & Now



Executive Messages



■ Mr Ashwin Devineni - Resident Director

Foreword by the Resident Director (RD)

In this issue, we take a walk down memory lane and reflect on the challenges the Maamba Mine faced, under the old management in the run up to privatization; showcase the transformation and highlight some of the major developments that have taken place since 2010.

In the years before privatization, MCL was hard pressed to meet most of its obligations and the company witnessed strikes, legal suits as well as 'raids' by court bailiffs who seized company property while pressurizing for payment on behalf of clients. Heavy machinery and vehicles required for mining operations slowly started deteriorating, due to lack of funds for maintenance. Environmental management was another major challenge, with leakages from the obsolete Coal Processing Plant polluting the ground water and unattended mined out dumps causing sporadic fires and thick smoke in Maamba due to self-combustion.

After privatization, the new management swung into action and started implementing an action plan to revive the company. The year 2012 saw a new dawn for MCL, with the commissioning of the new Coal Handling and Processing Plant and the ground breaking ceremony for the first ever coal-fired Thermal Power Plant (TPP) in Zambia. Four years later, 7th August 2016 was a red letter day for MCL and for the people of Zambia, when the Republican President, HE Mr. Edgar Chagwa Lungu commissioned Unit 1 of the TPP.

The revival of mining operations as well as construction and commissioning of the TPP has created much needed employment for people of the region. Meanwhile, the electricity supplied to the grid, greatly helped ZESCO reduce load-shedding, thereby having a positive impact on the people and the economy of Zambia.

For the residents of Maamba and the employees who opted to stay with the new management, together they have weathered the storm – and I'm grateful for the support that MCL has had from various stakeholders in our journey thus far.

Ndalumba kapati, Natotela sana, Dzikomo kwambiri



■ Rear Admiral Venkat Shankar (Retd.) - CEO

Message by the Chief Executive Officer (CEO)

Once again, it is a great pleasure for me to connect with our readers and stakeholders through this issue of MCL News.

As we complete the first half of 2017, there is much satisfaction and pride in what MCL has achieved since privatization. An opportunity to look back provides us with lessons, which in turn, allow us to meet the challenges of the future with greater knowledge, better preparation and more professionalism. This issue, therefore, throws some light on some of our activities to give our readers greater insight into the activities of MCL and showcase our efforts in many activities which we pursue in our constant endeavor to do our best in whatever we do.

Looking at the future, the period gone past has laid the foundation for MCL to take over the plant fully, meeting the multifarious requirements of the stakeholders. It is now our focus to ensure that the TPP operates at high efficiency providing the vital energy required for the growth and prosperity of Zambia.

I wish my team all the success in this mammoth task.

A Walk Down MCL Memory Lane

By Songwe Nyembe and Jethro M. Sikalunda

In this article, we bring you some of the major challenges the Maamba Mine faced prior to privatization, as well as some of the major developments that have taken place since 2010.

Due to lack of meaningful recapitalization in the years before privatization, production was at its lowest, resulting in almost no income at all. As a result, MCL was unable to meet most of its obligations including salaries, statutory contributions, Personal Protective Equipment (PPE), retirement benefits, payments to suppliers etc. Thus, during this period, the company witnessed a lot of strikes, legal suits as well as “raids” by court bailiffs who seized company property as they pressured for payment on behalf of various clients. Sadly, MCL also witnessed a massive exodus of qualified employees, who sought their fortunes mainly on the Copperbelt. However, some loyal employees decided to stay, and weathered the storm – for which MCL will always be grateful.



▪ Some employees “held on” to their jobs despite difficult circumstances

Personal Protective Equipment (PPE)



▪ Employees in PPE before & after privatization

Mining Equipment

Modern mining, especially surface mining operations are largely dependent on capital-intensive drilling and earth-moving equipment. The company’s heavy equipment slowly started deteriorating due to lack of funds for maintenance despite best efforts by the Management and staff to keep them operational.



▪ Dangerous occurrences from unreliable and aging equipment were common as seen above



▪ Modern well-maintained equipment procured after privatization

Mine Pit - before and After Privatization

In the run up to privatization, mining operations were severely affected as the Company was forced to continue its operations using run down equipment. The run down equipment necessitated adopting outdated and unsafe mining methods, resulting in unprofessional and unsafe mining operations.



▪ High walls & closely dumped waste materials at Izuma B (left) in comparison to modern best-mining practices currently in place (right)



▪ Hired excavator mining coal just below and next to a very high wall at Izuma A



▪ Pit operations underway at Izuma B after privatization

Status of Plants Before Privatization

Due to lack of resources to undertake meaningful repair works and maintenance, the once vibrant 'Station A', the hub of the Aerial Rope Way and other plants were completely abandoned. It was a common sight to see cattle seeking refuge from the blazing sun under abandoned plants.



▪ Cattle resting in abandoned Plants

Environmental Management Before & After Privatization

Environmental management was another major challenge that haunted MCL before privatization. The Coal Processing Plant (CPP) had become obsolete to a level where it was not serving its purpose. Leaking pipes and bursting slime ponds discharging into the environment were a common norm.

After privatization, the new Management embarked on construction of a new state-of-the-art Coal Handling and Processing Plant (CHPP). The plant has zero effluent discharge, thereby preventing contamination of surface and ground water. Further, waste water from the plant is recycled for use, resulting in high efficiency and water conservation. It is also used to water lawns and plants within the Plant.



▪ Coal Handling and Processing Plant (CHPP) before and after privatization

Due to ageing equipment, mined out dumps were left unattended to, resulting in sporadic fires / smoke in pits due to self – combustion and polluting the atmosphere. Mined out dumps are now being carpeted using inert material to avoid combustion, with positive impact on reducing pollution.



▪ Mined Out Dumps Before and After Privatization

Disaster Management

Prior to privatization, MCL was not in a position to prevent or handle disasters at the Mine and in surrounding areas due, to limited financial resources.



▪ Izuma B Bridge washed away due to heavy rains

Managing natural disasters like washed away roads was a nightmare. Such disasters led to the local community and Sinazongwe District as a whole being cut off and inaccessible by road for weeks, if not months!



▪ Maamba – Batoka Road at Mweezya (left) and Sinazeze (left) washed away due to heavy rains

As a result of the several damages on the Maamba - Batoka Road, MCL Management at that time decided to explore other alternative roads to link Maamba to the rest of the country. In this regard, the first option was to explore the possibility of using the old Maamba - Masuku Road. But how could this be possible in the absence of road worthy 4x4 motor vehicles?

The then Managing Director, Mr. Wilbur Simuusa, accompanied by his technical team undertook the said treacherous trip from Maamba to Masuku on a tracked mounted man carrier (Morooka), by defying all odds.



▪ In absence of 4x4 vehicles - tracked man-carrier (MOROOKA) used to navigate the hostile terrain

▪ Mr. Kankuli, Electrical Foreman at Masuku giving directions and precautions to the MD (in blue work suit) and his team on how to return to Maamba using the 37-km alternative road



▪ The team heading back to Maamba from Masuku using the alternative road

GRZ Efforts to Resuscitate Maamba Collieries

As a result of the many problems that MCL was undergoing, which included delay in securing a credible investor, the Government kept on injecting funds to keep operations running. These funds were mainly used to engage mining contractors, buy and maintain utility vehicles. The impact of such funding could not turn round the fortunes of the once coal mining giant. This was a small drop in an ocean! The Government was, therefore, prompted to pursue other avenues to save MCL from total collapse.



▪ GRZ officials made several visits to the mine to try and help it out



▪ Several Mining Contracts were signed using the GRZ funds but could not change things

The Privatization Process

Several attempts were made by the Government to save the once vibrant Maamba Collieries, alas unsuccessfully. The GRZ then decided that to do privatization was the only answer and invited bids through the Zambia Privatization Agency (ZPA). Dozens of potential investors from within Zambia and abroad, participated in the bid process and in April 2010, equity partnership between ZCCM – IH (the investment wing of the Government) and Nava Bharat Singapore Pte Ltd. (NBS) was achieved. Under this partnership, NBS acquired 65% stake in MCL and control of management of the Mine, while the Government through ZCCM – IH retained 35% shareholding.



▪ Finally the storm is over! New beginning for MCL. MCL Chairman, Mr. Ashok Deveneni conferring with the Former Republican President His Excellency Mr. Rupiah Bwezani Banda during the inauguration ceremony of the Mine.

Post Privatization

Restoration of mining operations and construction of a new Coal Handling and Processing Plant started in right earnest in 2010 soon after Privatization.



▪ Site Preparations for the new Coal Handling and Processing Plant



▪ Preparations for the first blast after privatization at Izuma B



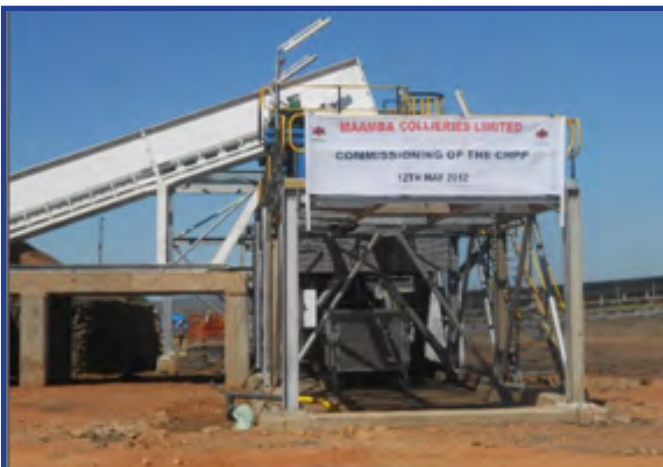
▪ Lighting up the first Blast at Izuma “B”.

▪ First Blast at Izuma B- after privatization. New beginnings for MCL!

New Dawn for MCL

12th May, 2012 was indeed a red-letter day for MCL!

It saw the fructification of efforts of the new management, that kick started soon after the takeover in 2010 by embarking on various rehabilitation programmes. The “red letter day” saw the commissioning of the new Coal Handling and Processing Plant (CHPP), replacing the older obsolete plant. More importantly, for Zambians, who witnessed the ground breaking ceremony for the first ever coal-fired Thermal Power Plant (TPP) to be built at Maamba, it was a memorable occasion.



▪ CHPP commissioned - 12th May, 2012



▪ Resident Director, Mr. Ashwin Devineni at the Ground Breaking Ceremony for the TPP - 12th May, 2012

After years of hectic and sustained construction activity, the 1st Unit of the 300MW TPP was inaugurated by His Excellency Mr. Edgar Chagwa Lungu, President of the Republic of Zambia on 7th August, 2016.



▪ TPP being inaugurated by the Republican President, HE Mr. Edgar Chagwa Lungu on 7th August, 2016

Since then, the Unit 2 of the TPP was also commissioned and after Performance Guarantee Tests, both units have been operating at full capacity since March 2017! The revival of mining operations as well as the construction and commissioning of the TPP has created much needed employment in Zambia. For the people of Zambia, the TPP has reduced overdependence on hydro power and provided much needed diversity in the source of energy while ensuring enhanced energy security. On the human capital front, there has been

a positive downstream effect, with vast technical skills being transferred from expatriate to Zambian engineers.

For the Maamba Community, the local economy has tremendously improved. Households are happy to have more financial spending power than they had before the privatization of MCL. MCL and the residents of Maamba have both weathered the storm and happy days are here.

MCL Celebrates International Labour Day

Maamba Collieries Limited joined other organisations world over in commemorating International Labour Day on Monday, 1st May, 2017. Eighteen deserving employees received cash rewards and a MCL T-shirt each, as Labour Day Award for their exceptional performance and disciplinary record during the period 2016 – 2017. Also, 50 employees from various departments took part in a march past during the function. The function was officiated by Transport and Communications Minister, Hon. Dr. Brian Mushimba, who was accompanied by the District Commissioner, Mr. Protacial Mulenga, and other senior Government Officials.



▪ Labour Day recipients



▪ Expatriate staff's children entertain the people who attended the Labour day celebrations.

Barclays Bank MD visits MCL

Recently appointed Managing Director of Barclays Bank, accompanied by three senior officials, visited MCL on Friday, 5th May, 2017, to acquaint themselves with developments taking place at MCL. The team toured the Mine Pit, Training Centre and the Thermal Power Plant.



▪ Barclays MD Mrs. Mizinga Melu (fourth from left) with her team during the tour of the TPP

ZCCM – IH Analysts Visit MCL

A team of seven analysts from ZCCM – IH visited the Mine from 15th to 17th March, 2017, to gain an insight into MCL operations. The team toured the Mine Pit, Thermal Power Plant, Water Reservoir & Resettlement Village, MCL Vocational Training Centre and some CSR initiatives. The team expressed satisfaction with the Government's investment in MCL.

ZCCM – IH, an investment wing of the Government of the Republic of Zambia has shares in many mining and other companies in Zambia. It has been retaining 35% shareholding in MCL, since successful privatisation in 2010.



▪ ZCCM – IH Analysts at the TPP during their visit to MCL on 16th March, 2017

SHEQ Department Retrains Drivers and Operators

SHEQ Department conducted Continuation Training for Drivers and Operators on 1st and 2nd June, 2017 at Maamba Training Institute. The training programme covered topics ranging from defensive and distracted driving, accident prevention, waste management, good communication, housekeeping and use of Personal Protective Equipment (PPE), all aimed at higher productivity and maintenance of the Zero Harm Policy at the Mine. The training was done for drivers and operators from MCL as well as Suncrest Engineering, Addmore, SMECH, and Nava Energy Zambia Limited (NEZL), which are MCL contracted companies.



▪ Environmental Officer Elvis Bbelemu taking a class on Waste Management

Senior driver, Bruno Nyimba, who attended the training, praised the SHEQ Department for organizing such programmes. He described the programme as highly beneficial, equally to the Mine and for the participants in their day-to-day duties. He appealed to the Management to continue organizing such training as they added tremendous value to the Company and to the participants alike.



▪ Senior Driver Bruno Nyimba offers Vote of Thanks on behalf of all participants in the Training Programme



▪ Group Photo of Drivers and Operators after training on 2nd June 2017

MCL Inaugurates Executive Quarters

In an effort to provide quality accommodation to staff members, MCL inaugurated executive flats on 26th May, 2017. The inauguration ceremony was witnessed by some executives from Corporate Office (Hyderabad) and senior MCL Management staff. The state-of-the-art quarters were constructed by Hua Sheng Construction, a Chinese Construction Company. Without any doubt, the quarters have added value to the face of Maamba Community.



▪ CEO Rear Admiral Venkat Shankar (Retd) inaugurating Executive Quarters



▪ Executive Quarters ready for occupation

MCL Participates in the 2017 ZITF

MCL along with its partner ZCCM-IH, participated in the recently concluded Zambia International Trade Fair which ran from the 28th June to 4th July 2017 in Ndola. The theme of the Fair was “Innovation through Industrialization”. MCL shared the stand with ZCCM-IH, and the main feature and most visited feature at the stand was the miniature model of the Thermal Power Plant. Head Corporate Affairs and Senior Manager Corporate Affairs represented MCL at the stand, which won the 1st prize in the Mining Category.



▪ ZCCM-IH CEO, Dr. Kasolo & MCL Head Corporate Affairs, Commodore PJ Sudhir (Retd) along with staff at the stand



▪ Head & Senior Manager Corporate Affairs explaining the TPP to school children at the show



▪ Inquisitive pupils attentively listen to Senior Manager Corporate Affairs, Mr. Chikoya's explanation



2011
Zambia International Milling Co. Ltd.
Best Exporter

ZAMBIA INTERNATIONAL MILLING CO. LTD.
INDUSTRIALISATION

2011 Zambia International Milling Co. Ltd. Best Exporter

Maamba Pre School Gets a Facelift

MCL as part of its Corporate Social Responsibility (CSR), runs Maamba Private School, among other non – core business entities. The school is segmented into two sections, namely, Pre-School and the Main School. The Pre-School, with an annual enrolment of about 400 children, offers pre-reading, writing and other learning skills to children of 3 to 6 years. The children spend three years at the Pre-School before they graduate to Grade 1 at the Main School, for their Grade 1 to 9 education.

Prior to privatization, the school infrastructure was in a dilapidated and run down state, due to inadequate finances for meaningful rehabilitation of the infrastructure. However, after privatization, MCL in 2012 – 2013 commenced phased rehabilitation works at both the school buildings. Since then, two out of three classroom blocks at the Pre School have been rehabilitated and work is progressing on the third.



■ Rehabilitated Classroom Block at MCL's Pre-School.

Management has mobilised resources, pulled down the dilapidated building and has constructed a new classroom block, including an administration block as well.

MCL has also embarked expanding the curriculum at the Maamba Private School. It is anticipated that the

school will be upgraded to senior secondary level during the year 2017 - 2018. Currently, works are underway to construct a Science Laboratory.

These developments aimed at helping the children of Maamba Community, has bought great cheer, both to the school staff and the local populace.

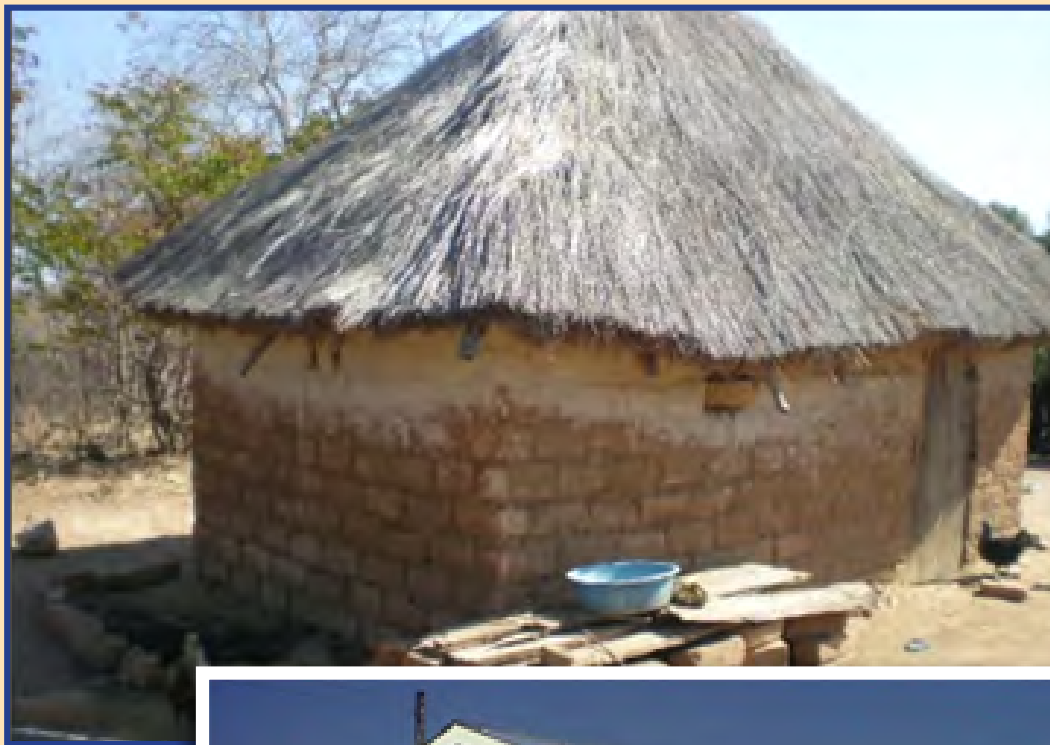


■ Dilapidated Pre-School Classroom (left) - demolished and gave way for a new Block (right) ready to be occupied

MCL Hands Over Title Deeds to the Project Affected Households (PAHs).

The construction of the 300 Mega Watts (MW) Thermal Power Plant by Mamba Collieries Limited (MCL), which started in 2012 and completed in 2016, saw the need for the company to resettle Sixty One (61) Project Affected Households (PAHs) to a new location. MCL, thus, in 2014 began the construction of Sixty One (61) modern houses for the Project Affected Persons (PAPs), which were handed over in 2016. All the Sixty One (61) houses are in one location, the Resettlement Village.

Below is a typical example of the quality of houses built for the Project Affected Households (PAHs) at the Resettlement Village in comparison with the houses they lost.



■ House lost



■ House gained

MCL, in its quest to help the PAPs, thought it right to give full ownership of the houses. Accordingly, the company embarked on a lengthy process of acquiring the Title Deed for the PAHs. This involved hiring of a Land Surveyor to draw up site plans and survey diagrams, approval of site plans by the Sinazongwe District Council and Southern Province Planning Authority, numbering of the site plans by the Ministry of Lands, as well as transferring and registration of Lots to the various PAHs. By November 2016, MCL had obtained all 61 Title Deeds from the Ministry of Lands. All the 61 Title Deeds have since been handed over to the respective PAHs.

The PAPs expressed happiness at the company's gesture for providing them with the Title Deeds. One of the PAHs, Margaret Matiketi had this to say, "I am grateful to the Almighty God for the Title Deeds because we never expected this to happen. I am happy that the Management of MCL has once again lived to their promises and may I just ask the company to continue this kind of commitment to the community." Another PAH, Mr Phinias Muzyamba, a beneficiary of a three bedroomed house, thanked MCL for issuing him and others the Title Deeds. "We never believed that we were going to be given the Title Deeds because from what we hear, there is no individual with a Title Deed in Maamba. It delights us to be the first ones to have Title Deeds in Maamba. Surely, we will keep them with great care." said Mr Muzyamba. "We just thank God our creator, who makes all things possible", added Mr. Muzyamba's wife.

As MCL, we pledge to continue our commitment to be resourceful to the community for the continued cordial relationship with the people of Maamba and surrounding areas.



■ Mr. Phinias Muzyamba & his family proudly displaying his Title Deed.

MCL Goes Green

In an effort to rehabilitate disturbed areas in the Mine, MCL has established a nursery where indigenous tree seedlings are being stored in readiness for rehabilitation. Being an environment-friendly green Company, MCL has moved a step further by establishing an orchard and a garden at the nursery. Different fruit bearing plants such as bananas, oranges, lemons, guavas, niches, paw paws and mangoes, have been planted. Different types of vegetables as well as maize have also been introduced in the nursery.

During 2016-2017 planting season, MCL planted 5817 indigenous saplings and donated 380 mango seedlings to the Community. Currently, MCL is preparing to raise 50,000 plants for the coming planting season. The Company is also constructing another green shade in order to increase the capacity for 'green is our favourite'.

The project is also meant to help community members change their mind-set with regard to management of the environment. The community should realize that, with commitment and effort, everything is possible. Together, we can make Maamba green!



▪ Various indigenous tree seedlings being raised at the nursery



▪ Maize and vegetables being grown at the Nursery



▪ Banana plantation being raised



▪ Nursery in charge, Mr. Jenkins Siabeza explaining the operations and the plants he is growing at the nursery.



MCL welcomes new members



• Paul Zyambo Ntali.

Paul Zyambo Ntali joined MCL on 2nd May 2017 as Mine automobile workshop engineer. He has come with vast experience in engineering and project management. After having worked for the copper mining industry in the Copperbelt for over 7 years, he worked for Emerald Mining Company managing huge fleet of mining machinery and light vehicles. He had over 50 subordinates. He studied Bachelor of Engineering in Electro-Mechanical engineering from the Copperbelt University with the major in machine dynamics. He has also done a lot of short coursers after his graduation. He aims to turn things around in the auto mobile workshop for MCL within a short period of time.



• Katutula Justine

Katutula Justine is fully qualified Chartered Accountant from the Association of Certified Accountants (ACCA). Further, he holds a Diploma in Human Resource Management from Cambridge International College (UK) and a Craft Certificate in Automotive Electrical from Kitwe Trades School. He is currently pursuing MBA (Finance) with the Copperbelt University.

Prior to joining MCL he started his work Career in 2005 with Konkola Copper Mines plc and was privileged to work in various disciplines comprising Mining, Engineering, Human Resources and Finance. He was part of Konkola Copper Mines plc Finance team for over three years with specialization in Cost and Payables Accounting.

He is glad to join Mamba Collieries because as he feels it's a Company that is poised for great success because of its ability to strategically position itself to the prevailing needs of the local market and society.



• Aaron Kapila

Aaron Kapila joined Maamba Collieries Limited on 14th July 2017 as senior Accountant. He has full ZICA accounting Professional qualification and is a registered member of ZICA.

He went to Mungwi Technical High School for his secondary education in Mungwi District, northern province and Mulekatembo Basic school for Basic and primary education in Mafinga District Muchinga Province.

Health Benefits of Beetroot



A healthy workforce is a productive workforce! How healthy we are, is directly linked to what we eat. Is it true that our health nowadays is cooked in the kitchens and sacrificed at the tables of both the rich and poor? Yes! Cardiovascular and metabolic conditions like high blood sugar, high blood pressure and high cholesterol levels which have become common household afflictions all reflect how smartly we eat. Have you ever imagined what miracles can be wrought by a deliberate regular intake of beetroot? Beetroot is heftily endowed with vitamins, minerals, organic compounds, magnesium, iron, phosphorous, dietary fiber, boron, copper, glycine, and betaine. It contains no cholesterol and is low in calories making it safe for the diabetics. Beetroot contains 20 times more dietary nitrates than any other vegetable. Research has shown that the intake of beetroot as food, medicine or food color add to the vitality and general wellness of the human body while at the same time acting as a disease-inhibiting agent. Beetroot is an excellent addition to a natural regimen designed to help bring blood pressure under control while increasing a person's stamina and energy. It can also be used to detoxify the body, boost immunity and lower the risk of chronic diseases like Type 2 diabetes and stroke. However, Beets may not be suitable for people with kidney or gallbladder problems because they contain oxalates, which when consumed in excess can cause bodily fluids to crystallize and thus could exacerbate kidney and bladder stones. Should we then forego beetroot? No!!! The health benefits of beetroot are too numerous to ignore.

Beetroot is good for the general wellbeing of the human body - Beet juice when consumed every day for a period of three or four months shows drastic improvement in overall health.

It prevents birth defects-. It is an essential component for the proper formation of the baby's spinal cord and protects against conditions such as spina bifida, which

is a congenital disorder wherein the spinal cord does not form completely and is generally divided into two at the base. Beetroot also provides energy to expectant mums which is quite essential during pregnancy. Surely!!! Mustn't beetroot juice be a pregnant woman's regular drink?

It prevents respiratory diseases These help in boosting the immune system, preventing asthmatic problems, cataracts and macular degeneration in the eyes.

It boosts energy levels - Beets contain appreciable quantities of naturally occurring carbohydrates for energy metabolism to fuel prolonged sporting and muscular labour intensive activities. Beetroot increases stamina to about 16 percent which is needed for athletes and work involving manual labour. If you need a quick energy booster, then turn to beetroot juice as opposed to processed energy drinks. Make it your special energy drink.

It boosts brain power - Intake of beetroot juice promotes the proper functioning of the brain and prevent the onset of dementia.

It treats Anemia - The anemic healing capacity is a result of the presence of iron that aids in the formation of hemagglutinin, which is essentially an element of blood that helps to transport oxygen and nutrients to various parts of the body. The iron present in beets is abundant to replace lost red blood cells, thus helps who are anemic. It can be vividly seen that beetroot can do it!!! Why not? Go all in and give beets a shot! Whether you eat it whole, blend it into a soup or drink its juice, beetroot is low in fat, packed with vitamins and minerals. Definitely a superfood, whose benefits should not be missed out at any cost.

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Zamcoal Football Club Gets a Shot in the Arm

Maamba Collieries Limited, the sponsor of Zamcoal Diggers Football Club, has reiterated its commitment to sponsoring the club. As a way of boosting the team's morale and in recognition of the team's winning ways last season, MCL has increased the team's winning allowance. The sponsor has also bought various sports equipment, which was handed over to the team by the General Manager – Mining, Mr. David Vijay Kumar. During the handing over ceremony, the GM exhorted the team to remain focused, win further laurels and give their best shot in their attempt for promotion to the Premier Football League.

MCL has also rehabilitated the team's camp house to provide extra comfort to the boys. The Kanzinze Stadium, the home of Zamcoal Diggers Football Club, has also been equipped with a borehole and an overhead tank to ensure that the playing surface is of top quality.




■ GM – Mining, Mr. David Vijayakumar handing over sports gear to ZAMCOAL Diggers Players





Coal Product Specifications

MCL established a modern, Coal Handling and Processing Plant (CHPP) which has facilitated production of washed coal of different specifications with consistent quality and eliminated pollution of nearby streams.

Product Specifications

Washed Coal Nuts	Parameter	Min & max
	Size	+20 - 50 mm
	Inherent moisture %	1.5 - 1.9
	Total moisture %	3.0 - 9.0
	Ash %	18 - 20
	Volatile Matter %	18 - 21
	Fixed Carbon %	59.1 - 60.5
	Phosphorous % (Average)	0.0025
	Total Sulphur %	0.7 - 1.5
	Gross Calorific Value (kcal/kg)	6294 - 6482

Washed Coal Peas	Parameter	Min & max
	Size	+10 - 20 mm
	Inherent moisture %	1.5 - 1.9
	Total moisture %	3.0 - 9.0
	Ash %	18 - 20
	Volatile Matter %	18 - 20
	Fixed Carbon %	60.1 - 60.5
	Phosphorous % (Average)	0.0025
	Total Sulphur %	0.7 - 1.5
	Gross Calorific Value (kcal/kg)	6294 - 6482

Washed Coal Fines	Parameter	Min & max
	Size	+0.5 - 10 mm
	Inherent moisture %	1.5 - 1.9
	Total moisture %	5.0 - 12
	Ash %	18 - 20
	Volatile Matter %	18 - 20
	Fixed Carbon %	60.1 - 60.5
	Phosphorous % (Average)	0.0025
	Total Sulphur %	0.7 - 1.5
	Gross Calorific Value (kcal/kg)	6294 - 6482

Unwashed Coal Fines	Parameter	Min & max
	Size	+0.5 - 10 mm
	Inherent moisture %	1.0 - 1.4
	Total moisture %	5.0 - 12
	Ash %	21 - 25
	Volatile Matter %	17 - 19
	Fixed Carbon %	55 - 59.6
	Phosphorous % (Average)	0.0025
	Total Sulphur %	1.6 - 2.5
	Gross Calorific Value (kcal/kg)	5824 - 6200

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