



MCL NEWS

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**“KEEP UP THE GOOD WORK,”
MINISTER OF ENERGY TELLS MAAMBA COLLIERIES**

CONTENTS

Editorial team

Commodore PJ Sudhir (Retd), Jethro Sikalunda,
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Page 4 - Road works remain on track
MCL-funded 20 million Kwacha re-construction of Maamba Township roads resume after rainy season



Page 5- 'Green Maamba' programme
MCL plans to increase the number of new trees to be planted this year in pursuit of a greener environment.



Page 6 - MCL comes to Maamba's aid after torrential rains
Following torrential rains in Maamba last February, MCL's timely interventions averted a possible humanitarian crisis.



Page 8- Minister of Energy visits MCL
Minister of Energy Hon. Matthew Nkhuwa, MP paid a familiarisation visit to Maamba Collieries Ltd operational sites.



Page 11 - MCL Conducts Inaugural Badminton
MCL launches the first-ever Badminton tournament in Maamba.

EXECUTIVE MESSAGES

Foreword by the Resident Director



Mr. Ashwin Devineni - Resident Director

This being the first edition for this year, let me at the outset, wish all MCL employees and contracted work force, our readers and all our stakeholders a happy, healthy and prosperous 2018.

I am delighted to note that the Thermal Power Plant continues to operate at 100 % capability, while mining operations continue as planned.

In this context, the visit to MCL's operational sites by the Minister of Energy, Hon Matthew Nkhuwa, MP was welcome and shows the keen interest of key policy makers in our operations. This is a reflection of the strategic importance of MCL and its contribution to the power sector of Zambia.

At the start of the year, I would like to renew MCL's commitment to the community. I believe the company's interventions in the Maamba floods on 28th February, 2018, truly reflect this commitment and I would like to thank MCL's team of engineers and other support staff who worked tirelessly shoulder to shoulder with their colleagues from Southern Water and Sewerage Company (SWASCO) to avert a possible humanitarian crisis.

At the end, I would like to wish all employees and their families every success and look forward to a productive and safe 2018.

Ndalumba kapati, Natotela saana, Dzikomo kwambiri!

Message by the Chief Executive Officer



Rear Admiral Venkat Shankar (Retd) - CEO

The New Year started for Maamba Collieries on a bright note with both units of 2X150 MW Thermal Power Plant continuing to generate full power.

The rains did not affect our operations both in the Power Plant and in the Coal Mine. The mining activities continue to be conducted efficiently to meet the demands of correct quality coal for the Thermal Power Plant and also for our customers outside.

With the New Year also started a spate of visitors to our Thermal Power Plant. We were honoured to have Hon'ble Matthew Nkhuwa, MP, the Minister of Energy and Water Resources, gracing us with his presence and appreciating the investment. There were other visitors too, including a team from DBSA, one of the lenders for the project.

The road works in the township recommenced after a brief break due to the rainy season and by middle of this year, MCL would have re-laid all the key roads within Maamba Township at the cost of ZMW 20 million.

MCL derives huge amount of satisfaction from this job, which had remained neglected for many decades, as the newly laid roads have benefitted the entire Maamba Township Community immensely. Driving in Maamba will no more be dangerous for the vehicle or the drivers or, for that matter, to the pedestrians!

I thank the readers for their continued support to MCL.

Road reconstruction works remain on track



The ongoing works on the roads in Maamba Township, which is wholly-funded by MCL, resumed in March after being temporarily stopped during the rainy season.

These are the first ever major reconstruction works for the road network in Maamba Township since the 1960s.

This in-house project, which is Phase 1 of a larger programme under the supervision of MCL Civil Engineering Department, with technical support from Bicon Zambia Limited, is a recent highlight of MCL's Corporate Social Responsibility programme, aimed at alleviating the living conditions of Maamba residents.

This K20-million reconstruction of Maamba Township roads was inaugurated on 30th August 2017, much to the delight of community members and was witnessed by Sinazongwe Constituency MP, Hon. Gift Sialubalo, the District

Commissioner, Mr. Protacial Mulenga, Sinazongwe Council Secretary, Mr. Everyty Ng'andu and village headmen among others.

MCL Manager - Civil Engineering, Mr. G.V Pantulu, said the project remains on track and is progressing well as per the planned schedule.

According to Mr. Pantulu, a number of milestones had been achieved so far which included construction of diversions, installation of culverts, road profiling for easy access of vehicles to the market, approach to Maamba Hospital, as well as the restoration of Southern Water and Sewerage Company Limited (SWASCO) waterlines that might have been affected by the project.

"We remain on course to complete the roads construction by end of June this year. We are on schedule," Mr Pantulu said in an interview.

He stressed that whilst undertaking the works, road diversions were also put in place to help the community by providing them temporary access to several key infrastructure including the hospital.

He said that of a total of 5.1 Km planned road reconstruction in the first phase, over 2 kilometres has been completed by end of March, 2018.

The freshly reconstructed roads would greatly help the community who, in the past, have had to navigate through deep potholes and worn-out roads which had not seen repairs since construction over four decades ago.



'Green Maamba' Programme



Mr Mwange (left) with Nursery Supervisor Mr. Jenkins Siabeza inspecting the plants

As part of the 'Green Maamba' programme, Maamba Collieries Ltd is aiming to make Maamba even greener, by planting around 75,000 tree saplings this year (as against 42,000 saplings planted last season), representing a 56% increase.

Of the 42,000 saplings planted last year, about 34,000 were planted to rehabilitate the route along the water pipeline, built by MCL, from Lake Kariba to Maamba, while the remaining 8,000 saplings were planted on the waste rock dumps and mined out areas to restore them.

Given the extremely hot conditions that prevail at Maamba most of the year, which leads to somewhat low survival rate, MCL has initiated a nursery to provide replacement saplings.

Minimizing the impact of operations on the environment is a stated vision of MCL, and ensuring green serene surroundings is an integral part MCL's Corporate Responsibility initiatives.

The 'Green Maamba' programme is MCL's Environmental Protection Programme that helps to ensure that mainly indigenous and some other species of trees are planted annually to ensure reforestation of Maamba, and importantly the rehabilitation of mined out areas. This programme is very important to MCL as it has to do with rehabilitation of the degraded areas as well as improving the vegetation around Maamba.

According to MCL's Environmental Coordinator, Mr. Felix Mwange, planting of more and more trees helps to accelerate the reforestation of the area. To achieve this, a nursery has been set up for better management, while MCL plans to expand the 'Green Maamba' Programme to include the Maamba Township.

He added: "When it comes to harvesting of the seeds and doing the actual planting, we work with the community and we take them as partners, with the aim of making the region a green-belt for the future generation."

DISASTER RELIEF: MCL comes to Maamba's aid



Maamba Collieries Ltd stepped up its Corporate Social Responsibility initiatives and helped avert a possible humanitarian crisis in Maamba in February 2018, following unprecedented torrential rains, which triggered massive flooding and wreaked havoc in the district.

Starting late December 2017 up to early February, Maamba was one of the many parts of Zambia that experienced prolonged dry spells attributed to the tropical cyclone Ava, which diverted moist airflow away from the country.





However, as the Inter Tropical Convergence Zone, the main system that brings rains started moving back and forth between the Central and Southern parts of Zambia around middle of February 2018, rainfall patterns in the areas started improving.

AS AN EMERGENCY RESPONSE, MCL PROVIDED HIGHLY PURIFIED WATER FROM ITS 300-MW COAL-FIRED THERMAL POWER PLANT USING WATER BOWSERS TO RESIDENTS TO ENSURE THAT THEY COULD GO ON WITH THEIR DAILY LIFE UNHINDERED.

On the night of Wednesday, the 28th February 2018, Maamba, situated in the low-lying Sinazongwe District in the Southern Province, witnessed one of the heaviest downpours in the history of the area, with the Maamba Meteorological Station recording 114 millimeters of rainfall within just four hours.

The unprecedented torrential rainfall resulted in flash floods and swelling of the rivers, leading to significant damage and destruction to vital infrastructure in the area.

The excessive flooding and fast flow of water in the Kanzinze river led to the bridge supporting the raw water pipelines collapsing and the pipelines getting washed away. These pipelines supply water pumped from Lake Kariba to Southern Water and Sewerage Company (SWASCO) for further supply to the community.

The ensuing floods also damaged the township's sewage pipeline and system, leaving the hapless populace on the brink of a potential health and sanitation crisis, with no access to drinking water.

Engineers from MCL and SWASCO swung into immediate action and worked tirelessly to restore the pipeline, thereby preventing a potential crisis situation.

This process involved laying and installing a High-Density Polyethylene pipeline provided by MCL in place of the washed away pipeline across the flooded river.

The swift actions ensured restoration of water supply to the community by 3rd March, 2018.

Even as the repairs to the water pipeline were in progress, MCL facilitated the transport required for picking up the special pipelines from Choma while its engineers, working in close coordination with their colleagues from SWASCO, helped repair the damaged sewage pipeline, which was completed on 7th March, 2018.

Meanwhile, as an emergency measure and to assist the beleaguered residents of Maamba Township, MCL provided highly purified water from its 300-MW Coal-fired Thermal Power Plant by using MCL Water Bowsers to ensure that the residents could go on with their daily life unhindered.

“Keep Up The Good Work,” Minister of Energy Tells Maamba Collieries



Hon. Matthew Nkhuwa, MP planting a tree on his first-ever visit to MCL operational sites in Maamba as Minister of Energy

Minister of Energy, Hon. Matthew Nkhuwa, MP during a first-ever visit to Maamba Collieries Ltd on taking charge of Ministry of Energy, said he is happy with the manner MCL Management is running its coal mine operations and the 300-MW Thermal Power Plant.

On 17th March 2018, Hon. Nkhuwa, MP accompanied by a team of officials from the Ministry of Energy visited MCL's operational sites in Maamba on a familiarization tour of the country's only coal-fired thermal power plant.

During the one-day visit, Hon. Nkhuwa visited the Open Pit Mine sites, Izuma A and Izuma B, the Thermal Power Plant operating at full capacity, MCL's CSR projects including the company's wholly-funded 20 million Kwacha

Maamba Township Roads Reconstruction Programme, the TEVETA - accredited Vocational Training Centre, educational and recreational facilities among others.

During the tour of the roads under reconstruction, the Minister also had the opportunity to interact with members of Maamba community and some local traders in the market area.

Hon. Nkhuwa said there was need for other mining companies and investors in the country to invest in communities and areas in which they operate to allow local residents benefit from their investments.

This was after some locals mentioned to him that business activities in Maamba had been flourish-



The Minister receiving brief of the structure on MCL's coal Open Pits from General Manager - Mining Mr. David Vijay Kumar (centre) as Minister of Energy officials look on

ing from the time MCL turned round operations of the mine and built the Thermal Power Plant. Hon. Nkhuwa said it was gratifying that MCL had embarked on a robust CSR programme in Maamba.

Earlier during an interactive meeting with the management team at the Service Building of the Thermal Power Plant, Hon. Nkhuwa hailed MCL's US \$919-million investments as a beacon of the quality of investments Zambia needed to attract.

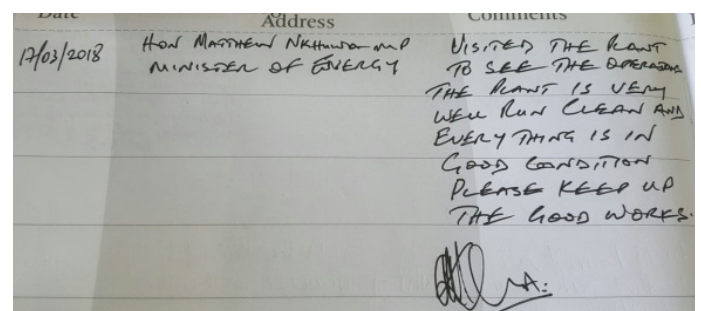
Hon. Nkhuwa also said he was very impressed with the comprehensive measures put in place by MCL to ensure mitigation and minimal environmental impact while conducting mining and power generation operations.

He explained that since being commissioned in August 2016 by His Excellency President Edgar Chagwa Lungu, MCL's Thermal Power Plant had

become an integral part of Zambia's overall electricity sector and had helped to alleviate power shortages in the country.

Hon. Nkhuwa reiterated that the Ministry of Energy remains supportive of plans to double power generation from currently 300-MW to 600-MW.

At the end of the short but intense tour, Hon. Nkhuwa, writing in the Visitors Book, commented on the overall cleanliness and the greener environment prevailing in the operating areas.



Mineworkers Union of Zambia hails MCL for improved conditions of service



MCL Finance Manager, Mr. J Sreenivasulu (left) and Manager - Internal Audit & Control, Ms. Gloria Munkombwe signing the Collective Agreement on behalf of Management

The Mineworkers Union of Zambia (MUZ) has commended MCL for its positive approach towards the welfare of its unionized employees by way of improved conditions of service.

In March 2018, MCL and MUZ signed a new Collective Agreement for all unionized employees for agreed terms and conditions of service for the period January to December 2018. The Collective Agreement entails an upward revision of salaries as compared to last year.

MUZ Maamba Branch Chairman Mr. Gilbert Moono said the Union was satisfied with the outcome of the negotiated process.

He told **MCL News** that: "Negotiations by their nature are a product of give and take. So, there was a position of the Union and then there was a position of MCL management. So, when MCL

management made an offer, which bettered the previous agreement terms, we went back to our principals - the workers and when they agreed, that is when we proceeded to sign the agreement."

Mr. Moono said improving productivity remains the focus of the MCL workers to ensure the company continues to operate efficiently.

He also told **MCL News** that the salary hike agreed to between management and unionized employees was one of the highest increments in the mining sector in Zambia this year, which highlights management's commitment to its workers.

Further, on behalf of the Union, Mr. Moono commended the MCL management for this achievement.

Inagural Badminton tournament in Maamba



MCL management remains committed to conducting sports and cultural activities at regular intervals, to improve work life balance, foster camaraderie and simultaneously promote team spirit in the workplace environment.

Sports requires and hones communication, trust and teamwork skills – all skills that are much needed in the work place. Applying these skills at work can make employees better team players and collectively achieve more in their departments.



Maamba Collieries Ltd conducted the first-ever Badminton Tournament in Maamba, as part of the management's goal of fostering teamwork among all staff members, while improving standards of employee fitness, health and well-being.

The badminton tournament launched on 14th February, 2018 by MCL CEO Rear Admiral Venkat Shankar (Retd), attracted participation from 38 players who played in Singles and Doubles categories.

Ms. Grace Chisanga won the Women's Singles and Mr. PR Mohan Prasad won the Men's Singles, while Mr. L Gopi Krishna & Mr. Aaron Livingstone successfully came up winners in the Men's Doubles finals.

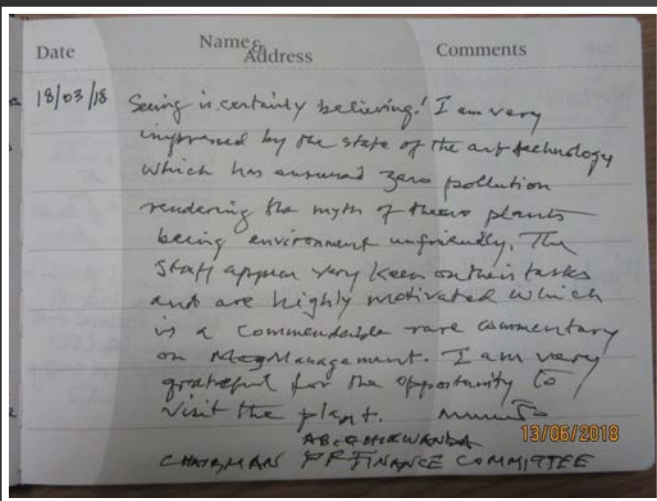
TEAM SPORTS FOSTER
BETTER COMMUNICATION,
TRUST AND TEAMWORK



Maamba in Pictures - January to March 2018



Hon. Matthew Nkhuwa, MP (third from right) with Resident Director Mr. Ashwin Devineni on his left and MCL Chief Executive Officer Rear Admiral Venkat Shankar (Retd) on his right in the TPP Control Room



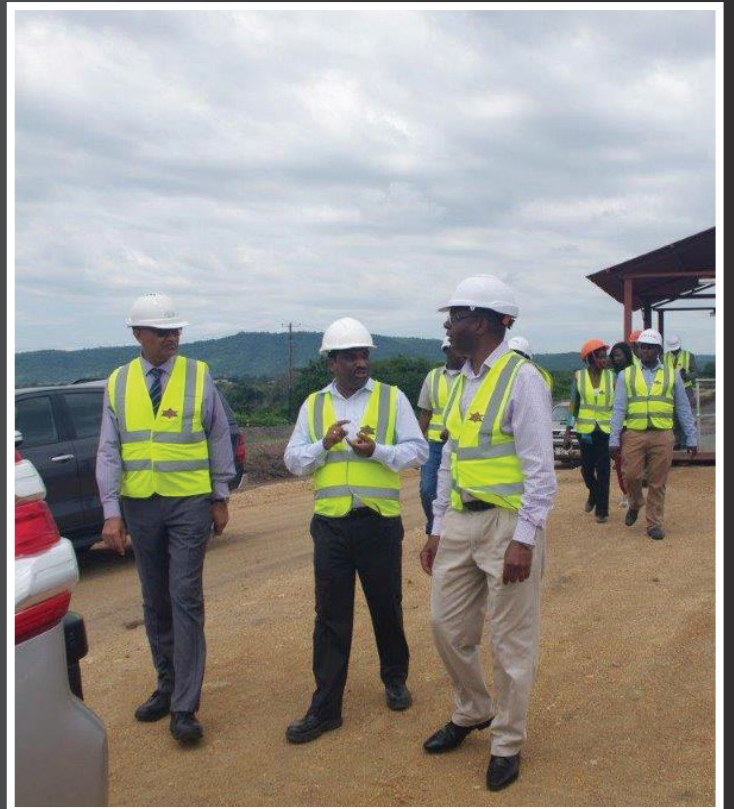
Hon. Alexander B Chikwanda's comments in the MCL Visitors Book



Mr. Alexander B Chikwanda, Former Minister of Finance and currently Chairman of PF Finance Committee planting a sapling on his first visit to MCL



Engineers from MCL and SWASCO laying the High-Density Polyethylene pipe to restore water supply from Lake Kariba to the Water Treatment Plant in Maamba



Part of the Nursery for the 'Green Maamba' Programme

Chief Executive Officer Rear Admiral Venkat Shankar (Retd) left, General Manager - Mining (centre) Mr. David Vijay Kumar with Hon. Nkhuwa on an Open Pit tour

MCL rebrands Zamcoal Diggers to Maamba Energy Stars FC



Maamba Energy Stars Football Club

ZAMCOAL Diggers, one of Zambia's oldest football teams, has been rebranded under the name, Maamba Energy Stars Football Club.

The likes of current National Team second choice goalkeeper Toaster Nsabata, former FAZ Technical Director and current Red Arrows Football Club Coach Honor Janza and Zambian international midfielder Spencer Sautu join the list of other former prominent players to have come through the rank. Since the new management took over MCL, the team is wholly-sponsored by Maamba Collieries Ltd, and has seen significant success including being promoted last year to the FAZ Division One.

Mr. Jethro Sikalunda, Manager - Maamba Development Trust and responsible for the Football Club, said the rebranding process is to keep pace with the changing operational dynamic of the company, moving from being a coal mining enterprise to a key player in the mining and energy sectors, and is also aimed at re-energizing the Club and refocus on its aim of being promoted and entering the FAZ Super Division.

"From the time of privatization and since the new investors - Nava Bharat Ventures Limited (NBV) came in, the strategic focus of MCL has changed. MCL is not just mining coal but it is also producing electricity. Again when you look at coal and electricity, one thing common about them is that they both are in the energy sector," Mr. Sikalunda explained.

It is hoped that the rebranding will also help the club to sustain its own growth, both economic and sports-wise, and extend its influence over the local league with the support of MCL.

"Our focus is to play in the FAZ Super Division league very soon and we hope this rebranding will help to re-energize the players, our technical team and everyone connected to the team so that we achieve that objective," said Mr. Sikalunda.

The Football Association of Zambia has accepted this change in name and MCL hopes the team is ready to bristle with energy and wishes the team the very best for the ongoing season.



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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