



## Massive water reservoirs for power plant

Remarkable progress in motion...

Story on page 8

Aerial view of the revamped Kariba Pump Station



Water resevoirs under construction



### Inside

- ➔ 96% pupils pass at Maamba private school
- ➔ MCL creates 1,000 Zambian jobs
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## Foreword by the Resident Director Mr. Ashwin Devineni

Dear readers, it gives me much pleasure to welcome you to the second edition of the MCL Newsletter this year and I hope you will enjoy the reading. As has been the case since we moved to Maamba, our dedication towards Corporate Social Responsibility remains unaffected. The residents of Maamba were faced with a huge challenge of the bridges being washed away during the rainy season.



The company was on hand to repair the bridges. We have written comprehensively on that aspect in this edition but it is our expectation that the residents will protect the infrastructure we have constructed for them. For us, this was done to demonstrate how much we care for the community around us.

The school going children were particularly affected by the bridges being washed away, apart from the traders and this is what made us work day and night to ensure that normalcy returned to the community.

This brings me to the issues about the people who are expected to be displaced by the water pipe line which will transport water from Lake Kariba to the power plant. There were several concerns raised by the community and this worried us a lot.

We are happy that this is no longer the case because the construction of the houses for them has reached an advanced stage.

We feel greatly honoured by the renewed co-operation from the affected families and the community at large. Too much can be said about these CSR activities but our role of looking after the community in whichever way possible will continue.

Ndalumba maningi

Dzikomo

*Mr. Ashwin Devineni*

*Resident Director*

## MCL employs Estate Manager

Wesley Hachoombe joined MCL on a 24th February 2014. He is a holder of a Bachelor of Science Degree in Real Estate from the Copperbelt University. He graduated in the year 2008.

Wesley has a five-year experience in estate management. Prior to joining MCL, Wesley worked as a Property investment and Maintenance Manager under CS Properties and Services Limited, a position he held for two and

half years. He worked for Lusaka City Council as a Valuation Officer for two years before joining Government Valuation Department in the same capacity in the year 2010.

He is affiliated to the Surveyors Institute of Zambia Valuation Chapter.

MCL wishes to welcome Mr Hachoombe to the growing family.



Wesley Hachoombe

## Thermal Power Plant now 65% done



## Letters to the Editor

Dear editor, as an ardent soccer fan and follower of Zamcoal Diggers Football Club, I want to commend MCL management for the continued sponsorship of the club.

Zamcoal Diggers is a heart of sports in Maamba and their promotion is well deserved. To the players, I wish to encourage them to work hard and remain disciplined. Focus on doing better to win selection to the national team and eventually play for international clubs.

Kenny, Maamba

Letters to the editor can be emailed to [phirip@maambacoal.com](mailto:phirip@maambacoal.com) or text to 0963-468533 in either Tonga or English. The editor reserves the right to edit copy. Jokes too will be considered for publication.

## MCL creates 1,000 Zambian jobs

Since commencement of production in April 2010, Maamba Collieries Limited (MCL) has created 1,460 jobs at the mine and the power plant construction site.

The company has created the jobs through the sub-contracted companies it has engaged to carry out various specialized works in Maamba.

About 40 Zambian engineers started joining MCL last year but this figure is expected to reach 80 by the end of this year.

MCL has 215 direct jobs but also owns a subsidiary company called Maamba Development Trust (MDT) which is a duly registered company that runs various ventures which are managing the Corporate Social Responsibility (CSR). MDT is

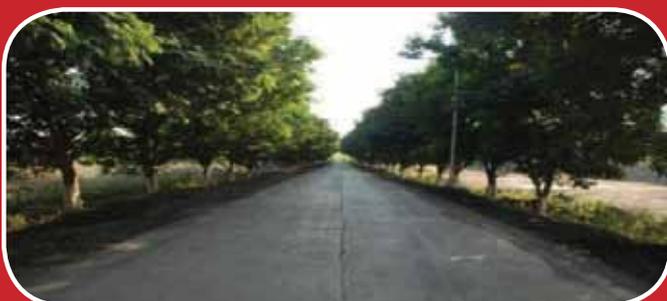
responsible for managing schools, training centre and spearhead CSR activities. The contracted companies have created 1,199 jobs.

Job creation is top of the agenda for the Zambian government and MCL has ensured that activities are scaled within levels where the youths can have jobs.

## Uses of power plant ash spelt out

Fly ash from the power plant under construction by Maamba Collieries Limited (MCL) has many uses in the construction sector. This means further fears about environmental effects can be written off because the main effluent from the power plant will be trapped and be used to manufacture bricks and road construction materials.

The ash will also be laid on haul roads and back-filling of open cast



mined areas.

Further, the ash can be used for blending in cement products apart from being used to resurface walk-ways.

Due to its rich content the ash is also useful in soil fertilization which means farmers would have to rely on the waste for improved crop performance.

# 2013 bright for Maamba Collieries

The performance by Maamba Collieries Limited in the year 2013 has been fair with increased production levels compared with 2012.

In total, the coal production levels reached over 400,000 tons in 2013 compared to only about 90,000 tons in 2012.

The company has continued registering an upward trend in coal

production but the break-even point has not been reached yet for various factors within the production chain.

The good performance in both production and sales can be safely attributed to a fairly stable and growing economic position Zambia occupies.

It must be noted however that due to high cost of production coupled with

the financing requirements for the on-going construction of the 150mw x 2 units of the power plant the company is still not able to generate profits which are only expected once the power plant is commissioned.

MCL has lately recorded a few companies from within the Southern African Development Community (SADC) region that have come on board to purchase coal.

## Market to determine coal production levels in 2014

Maamba Collieries Limited does not have any expansion plans in 2014 but will be driven by market demand in production of coal.

The company has capacity to produce adequate coal requirements for the country but it is limited by the lack of adequate market.

The lower production scales in the recent years can be attributed to the small coal market in the country.

MCL's confidence has continued to grow with the positive business outlook since MCL resumed operations under the Public Private Partnership initiative in April 2010.

The policy environment has remained stable and conducive for investment with continued tremendous support from all stakeholders in 2013.

On the status of the power plant, we are proud to state that about 65 per cent of the work (by early April) associated

with the construction of the 2 x 150 MW power plant had been concluded.

The project can therefore, be safely said to be on schedule and commissioning of the first unit should go as per plan which is in 2015.

For us as MCL, this is an opportunity to contribute to the growing economy of Zambia and help reduce the power deficit and load-shedding.

### Mining fact sheet to-date

- Total Mining Lease Area = 7,876.30 Ha.
- Exploration completed Area = 1,432.00 Ha.
- Mined Out Area = 260.00 Ha.
- Area for Township = 160.00 Ha.
- Area to be Explored = 6,024.30 Ha.

## Power plant construction update

By April 1, 2014, construction of the first unit of the 2 x 150 Mega Watt power plant in Maamba had reached about 65 per cent.

There have been some slow pace in the progress recorded but construction is expected to intensify once the company mobilizes adequate resources, MCL remains committed to working within the deadlines for completion of power project. A few months' delay could be expected due to slow financial closure on account of uncontrollable factors owing to policy changes..



Zambian Engineers listen to a presentation by MCL power plant manager Gadde Ramesh (insert) during a public discussion programme to release a construction progress report at Mulungushi International Conference Centre in Lusaka

# Maamba Collieries mend

Rachael Lukonga, (Grade 9) emerges from a meandering gravel road with vivid relief having attended her Grade 9 class uninterrupted for four days. The washed away bridge that gives her access

river was flooded. It is hard to say how I feel now," narrates Rachael, 14, as she looks in the direction of the gullied river courses uphill.

Grade 9— as the school was not accessible. The heavy water flow pounded the stream and brought economic life to a virtual stand-still owing to a shortage of supplies.

Even the school head-teacher who resides in the nearby Sipuumina area was periodically stranded across the river leaving the institution to speculation. How about the traders, patients and employees from areas such as Masuku, Syankodobo and the vast parts in the hilly areas of Maamba?

"But thanks to Maamba Collieries Limited (MCL). I can now feel that I am a Grade 9 pupil because I am able to go to school and learn. The company has repaired all the bridges which were washed away," said Rachael on her return from school.

"It's not easy to miss class especially when you are a week old in your new grade," she concludes.

Equally feeling victorious at the restoration of the bridge network is Misheck Sinankumbi, who remembers having risked his life when the floods were pelvis-high but the need to cross the stream was as compelling as the threat of being killed by floods. His wife had been admitted to



Maamba Residents crossing the washed away Bridge

to and from Maamba Mine School has just been repaired.

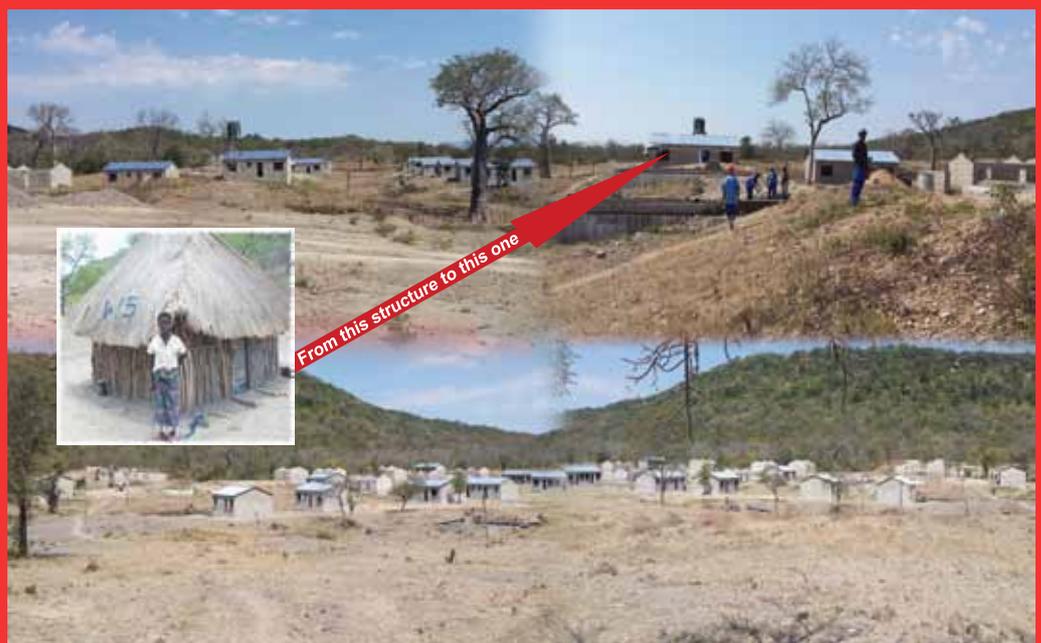
"Too good to be true, first week in Grade 9 and I could not go to school because the

heavy rains during the months of December and January washed away the bridge network in the area and Rachael had to contend with the pain of missing class—the first hours of being called a

## Housing resettlement restarts...

Maamba Collieries Limited (MCL) has commenced the construction of 63 houses for the families that will be resettled. This is meant to give way to the pipe line which will transport water from Kariba Dam pump station to the 1 x 150 mw power plant under construction. According to specifications at the site, a community hall is also being constructed by MCL to provide a meeting place for the beneficiaries. Each family is being provided with 1-3 bedroomed house depending on the condition of the old grass-thatched house.

The houses will have tapped water, electricity and modern toilet facilities as opposed to the old structures where pit-latrines were used. There will also be water reserve tanks to ensure a much more improved atmosphere.



The houses will be handed over to Sinazongwe district council for purposes of maintenance and provision of social amenities.

# Is washed away bridges

Maamba hospital just before the stream was flooded.

“The water was slightly below the stomach but I had to go,” he said.

To restore life in the area, Maamba Collieries has repaired the main bridges that were washed away in response to the cries of the local community.

The situation has remained predictably scaring each rainy season before MCL, through its parent company, Singapore’s Nava Bharat Ventures (NBV), took over the mine in April 2010.

With predictions by weathermen that heavy rains were still in the offing. Hilly areas such as Maamba face huge challenges of crops being washed away apart from the long stories of stalled economic activities due to floods.

Before MCL undertook to construct foot-bridges around Maamba and Sinazongwe, crocodiles frequently attacked people including school-going children.

That is no longer the case and thanks to MCL for constructing foot bridges that have helped ease movements.

The foot bridges include the one on Kanzinze stream that links Maamba to the only air strip in the district while another bridge has been constructed on Izuma stream. The other crucial bridge links the market to the New Town area, considered by locals as low density area.

Prior to the commencement of excavation for coal, a road was constructed to stop residents from using the Mine as a route to access town in order to avoid accidents and another foot bridge was constructed for purposes of putting up an alternative route.

MCL has, additionally erected Sipuumina bridge in conjunction with the Rural Road Unit and this is a major transport route covering a total distance of about 15 Km to Muzuma in Choma and residents use the road to transport agricultural produce and trade in general.

Explains MCL Head of Corporate Affairs Janardhan Lavu: “We have a role to play in the lives of the people of Maamba. It is not our objective to do mining and forget about the valuable members of the community.”

MCL has so far spent about USD 829,200 on Corporate Social Responsibility (CSR). The bulk of the money has gone towards medical camps, construction of bridges,

water reticulation systems, education and contributions to cultural and other events.

Additionally, MCL has successfully completed the construction of the Kariba Road from the Maamba - Batoka road covering a total of about 15 kilometers.

Officiating at the market footbridge commissioning, Sinazongwe District Commissioner Dodo Sindaza described the gesture by MCL has highly fulfilling in view of the attacks by crocodiles people have had to content with for many years.

There is also the reconstruction of the vast sewerage ponds done to ease the burden of sewer management and meet the population growth.

The company has further successfully held two free medical camps for the community and one of which was officiated by Vice President Guy Scott and his spouse, Charlotte.

During a presentation to a group of engineers at Mulungushi International Conference Centre Maamba Collieries pledged a more focused and highly friendly work culture ahead of the commissioning of the Zambia’s biggest Thermal Power Plant.

The presentation was made to the Engineering Institution of Zambia where over 200 people attended the event in the capital, Lusaka on the construction of the 2 x 150 MW power plant.

The presentation was made jointly by Mr Lavu and power plant project manager Gadde Ramesh on Wednesday, 19th February, 2013.

The event was organized by the Engineering Institution of Zambia (EIZ). EIZ president Bernard Chiwala praised MCL for the many Corporate Social Responsibility (CSR) programmes organized for the residents in Maamba.

## MCL equipment during the repair of washed away bridges



# MCL repairs collapsed Maamba bridges after a heavy down-poor

In the recent past, many streams in Maamba were impassable because the bridge network was washed away due to heavy rains.

Maamba experienced heavy rains during the months of December and January which washed away the bridges. This affected business in the area due to poor transportation system.

But the company mobilized resources and spent over K200,000 to repair the bridges and allow motor vehicles and the residents to pass.

The foot bridges constructed earlier were the only life-blood for the residents but are only found in limited but key areas.

Before MCL undertook to construct foot-bridges around Maamba, crocodiles frequently attacked people including school-going children.

That is no longer the case because MCL has constructed foot bridges that have

helped ease movements especially around Maamba area where a high concentration of schools is found.

MCL has, additionally erected Sipuumina bridge in conjunction with the Rural Road Unit and this a major transport root to Muzuma in Choma and residents use the road to transport agricultural produce and conduct trade in general.

In the last two years, MCL has constructed three Foot Bridges, repaired Maamba – Masuku Road and the Maamba - Kariba road.

The company also constructed to bituminous level, the main road from Izuma lodge to the Lusaka-mine road.



# Massive water reservoirs for power plant



Maamba Collieries Limited (MCL) has made a huge progress in the construction of the water reservoir. The construction will help the community in Maamba have access to proper water facilities for the first time in the history of the town. The reservoirs are expected to match the growing population in the town.

MCL has invested heavily in Corporate Social Responsibility (CSR) and provision of clean water and adequate water is part of the company's initiative to invest in the community, apart from servicing the power plant.

# Kariba pump station revamped

Further works have been extended to the Kariba pump House station which will pump water from the lake to the power plant in Maamba.

The pipe line covers a distance of 21 kilometers from Lake Kariba to the

mine where the power plant is being constructed.

The pump station has been refurbished and old equipment replaced with new one to expand the life span of the pump station. All the works are being

undertaken because the power plant will require a lot of water supply. The road leading to the pump station has also been repaired by MCL.

Works which started on March 1, 2013 are expected to last 13 months.



# MCL introduces performance management system

**M**aamba Collieries has introduced a new system of performance management to help senior members of staff assess their own work targets.

The programme makes managers set the parameters for the year and

ensures that self-monitoring system helps in keeping their targets within measure.

The programme was pioneered by MCL Human Resource manager Patrick Nalumino who joined the company late last year.

Management officials, under the system, are required to tabulate targets to be met in a year and follow them through for them to know the level of commitment and ability to meet the company's expectations.

## Zambian Members of Parliament visit MCL power plant



**A** delegation of Members of Parliament (MPs) on Saturday, March 29, 2014 visited Maamba Collieries Limited (MCL) to familiarise themselves with the 2 x 150 MW power plant under construction.

The MPs who were visiting in their capacity as a committee on Economic, Energy and Labour were impressed with the massive power plant and the general operations of the company.

In attendance included the committee's chairperson Mr. Highvie Hamududu who is MP for Siavonga Constituency, Chembe MP Mwansa Mbulakulima, Solwezi East MP Villie Lombanya and Nakonde MP Abel Sichula. They were accompanied by two senior officials in the Office of the Clerk of National

Assembly of the Republic of Zambia, Mrs Doreen Mukwange and Karen Nkandu.

MCL board member Essau Nebwe headed the management team in explaining various issues on behalf of the company.

The team promised to prepare a good report about their findings in Maamba, and would endeavor to conduct another visit which will be comprehensive.

They indicated that they would want to be invited for the commissioning of the Power plant once the works are completed.

They were particularly impressed that

MCL ensures that most employees were from within Maamba area as opposed to getting labour from distant areas like the capital, Lusaka.

The committee recommended that MCL should select a few Corporate Social Responsibility (CSR) activities such as health and football which is very famous in Zambia.

Mr Nebwe told the delegation that MCL has adequate coal resources which was good for energy generation considering that the project would not depend on the availability of rainy water.

The project can be extended to 600 MW, even up to 900 MW depending on financial resources available.

# 96 % pupils pass at Maamba private school

The pass rate at Maamba Private School has reached 96 percent. The rate means the MCL sponsored school is among the highest performing schools in the Country.

Maamba Collieries Limited through its subsidiary MDT, employs about 28 teachers and 4 support staff to run the school. Currently, Maamba Private School has a total of 722 pupils.



Part of Maamba Private School

The school caters for both children of members of staff and those from the community and surrounding villages.

Meanwhile, the Grade 7 pass rate has reached about 54 percent. The figure is low mainly because of the high cut-off point in Southern province due to a limited number of boarding schools offering secondary school education.

MCL has placed education for the youth high on its agenda and has plans to construct a laboratory at the school.

## MCL celebrates women's day

Employees of Maamba Collieries Limited (MCL) joined the rest of the community to commemorate the International Women's Day on 8th March, 2014.

The company also participated in the planning meetings that took place in Sinazongwe, the district headquarters.

The participation was in recognition of the special role women in the company and the community in general have continued to play.



Maamba Collieries Limited Employees marching during International Women's Day on 8th March 2014

## Zamcoal player joins national team

Zamcoal Diggers Football Club midfielder sensation Samson Manyepa is the latest player to join the Zambia National Soccer team.

Manyepa was called to the national under-20 soccer team by coach Reuben Javera who has been impressed with his performance.

Manyepa was born on 25 May, 1996 and his swift dribbling and efficient passing makes him highly interesting. He was among the high performing players who contributed greatly to the team's promotion to the first division of the Football Association of Zambia league.

Manyepa joins other Zamcoal Diggers products such as Goal-keepers Toaster Nsabata and Charles Muntanga who have become regular members of the senior national soccer team.



Part of the Zamcoal Diggers players before the game against Nkwazi in Lusaka

## Zamcoal Diggers faces rough ride in superior league

Zamcoal Diggers Football Club has started participating in the superior league on a low note having drawn the first game at home and lost the second one.

The team lost to Nkwazi Football Club which only last year played the super league, the top 16 teams in the country. Zamcoal scored 1 goal against Nkwazi which scored 3 while in the first match, Lusaka City Council drew with Zamcoal.

## Jokes and Teasers

### The Economic Hardships

**B**oss asks Jackson why he was late for work  
Boss: Why are you late?

Jackson: There was a man who lost a hundred Kwacha note

Boss: .....And so..., were you helping him look for it?

Jack: No... I was standing on it.

### Guardian

**A**Man was walking down a street when he heard a voice from behind, "If you take one more step, a brick will fall down on your head and kill you."

The man stopped and a big brick fell right in front of him. The man was astonished.

He went on, and after a while he was going to cross the road. Once again the voice shouted,

"Stop! Stand still! If you take one more step a car will run over you, and you will die." The man did as he was instructed, just as a car came careening around the corner, barely missing him.

The man asked, "Who are you?"

"I am your guardian angel," the voice answered.

"Oh, yeah?" the man asked "And where the hell were you when I got married?"

### Confession by a real Christian

**I** have decided that I am not going to focus on the past anymore. So if I owe you any money I am sorry. This is serious confession and all past deeds are now in the past.

### Robbery in Church

**O**ne Sunday, an armed robbery gang entered a Church and threatened to kill all the members. They told the congregation that they were going to kill everyone but in alphabetical order.

They approached the Reverend and asked, what is your name?

Rev: Zakariah Zmith

They then approached the choir master, what is your name?

Choir master: Zemmanuel Zwilliams

The pianist, out of fear, pointed at the Deacon and said, his name is Abraham Anene

Deacon: He is a liar, my name is Zabraham Zanene.

What would be your name if you were in this Church?

# 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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