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MCLNews

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Proudly Zambian



47 % power plant construction complete

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Chinese Ambassador to Zambia H.E Mr. Zhou Yuxiao (fifth from the right), MCL Resident Director Mr. Ashwin Devineni (on his right), Sinazongwe District Commissioner Mr. Dodo Sindaza, MCL Chief Operating Officer Mr. Gurram Venkata-Narayana and the rest of the SEPCO team at the Power Project recently



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Editorial team

Janardhan Lavu
Andrew Tembo
Jethro Siakalunda

Taona Kalunga
Gurram Venkata Narayana (Patron)

Design & Layout: Oscar Chisenga



Foreword by the Resident Director Mr. Ashwin Devineni

Dear readers,

Once more, allow me to welcome you, our readers and stakeholders, to this edition of the MCL Newsletter. I wish to emphasize before I go any further that we remain deeply humbled with the cooperation we have received from all stakeholders since we started our investment in Maamba in 2010.

As the year 2013 draws to a close, the company will continue to look to the bright future of Zambia and that of the company with utmost confidence because of our good working environment in the last three years.

We are particularly grateful with the great progressive partnership we have continued to enjoy with our partners, the Zambia Consolidated Copper Mines—Investment Holdings (ZCCM-IH) PLC.

The cooperation in general from our major stakeholders has encouraged us to tackle various challenges in the community apart from making progress in the on-going construction of the power plant.

We appreciate the high valued support being rendered to the company from the Zambian Government and other stakeholders.

It makes us happy, as a company, that we have become part of the Zambian family. In the last one year, we have conducted three medical camps apart from cervical cancer screening of women and other CSR activities.

The CSR activities have included procurement of dust-bins and continued construction of roads within the township and surrounding areas. Our relationships with local government officials within Sinazongwe and Southern Province have continued to grow. This is as it should be. Our company will remain steadfast in listening to the government, the shareholders and the rest of the community.

In the month of July, the company spearheaded the clean-up exercises in our township in Maamba. Hundreds of local residents, as was anticipated, turned up to partner with employees.

I want to salute them for their efforts. I thank you all.

Ndalumba maningi, Dzikomo, Natasha!

Ashwin Devineni

Resident Director



47 % power plant construction complete

By the end of September 2013, about 47 percent construction of the 2 x 150 MW coal fired power plant had been completed.

Major mile stone activities like construction of 150 meter high chimney was completed on 30th August, 2013. The unit-1 boiler drum (72 ton) lifting had been completed successfully on 31st September 2013.

This is a significant movement as the October 2014 deadline for commissioning of the first unit fast approaches.

The second unit of the Power Plant is scheduled for commissioning in January 2015.

Construction of the double circuit power transmission line and the water pipeline by Sepco are progressing well.

The double circuit transmission line will facilitate the transmission of power from the plant to Muzuma sub-station where it will connect to Zambia Electricity Supply Corporation (ZESCO Limited).

Meanwhile, Heavy duty equipment have been mobilised to site for the water pipe line works and pipe line corridor bush clearing works are on course.



2 X 150 MW Power Plant under construction in Maamba, Zambia

The power plant will utilise the low grade thermal coal reserves and rejects from the Coal Handling and Processing Plant (CHPP) to generate electricity for the Zambian industry and households.

MCL is expected to start the crucial process of synchronization of the first unit in August next year, subject to ZESCO upgrading its power line from 220kV to the required 330kV.

NBV Board Members visit MCL

The Board of Directors of Nava Bharat Ventures Limited toured Maamba Collieries to familiarize themselves with the mine and the work on the ground in July 2013.

The tour took place a day after the board meeting of MCL held at MCL office at Corporate Park, Lusaka.

The NBV board members were accompanied by Chairman Mr. D. Ashok and Resident Director Mr. Ashwin Devineni.

The directors spent two working days in Maamba and took time to check on the progress that has been made at the power plant construction site.

Mr Devineni, speaking after a conducted tour of the MCL mine and power plant construction site alongside board members, said construction works were on track.

He said MCL would continue to invest in responsible mining activities to protect the environment while

helping the needy through corporate social responsibility.

Mr. Devineni was happy with the team work exhibited by the company and challenged them to own the progress that has so far been recorded.

During their tour of duty the board of directors learnt about the progress that had so far been recorded in the construction of the power plant.

21 Zambian engineers join Maamba power plant construction

Twenty-one Zambian engineers have been engaged to join the expatriates in constructing the country's biggest coal - fired thermal power plant in Maamba in Sinazongwe district.

The recruitment of local engineers is aimed at investing in the future considering that they will be responsible for operation and maintenance of the plant once completed.

The graduate engineers were recruited through interviews conducted at MCL corporate office in Lusaka in June.

The programme is part of the process to add to government efforts in creating jobs for the Zambian people and this will boost the economic fortunes of Maamba town.



Some of the new engineers at the Power Plant



Mines Minister Hon. Christopher Yaluma (in white work suite) during the tour of the Maamba power plant recently

AfDB approves US \$150-million loan to support MCL power project

TUNIS, Tunisia, October 4, 2013 – The Board of Directors of the African Development Bank (AfDB) approved on Wednesday, October 2 a senior loan of up to US \$150 million to finance a 300MW coal-fired power plant as well as the revamping of the Maamba coal mine in Maamba, Zambia.

The project aims to tackle a severe environmental concern at the mine caused by the unregulated and spontaneous self-combustion of tons of currently unused low-grade coal while

producing much-needed electricity for the country and the region.

The Maamba power plant project will increase supply and reliability of electricity in Zambia which is currently experiencing black-outs and is heavily reliant on drought-sensitive hydro power. Zambia's hydro power production accounts for 96 per cent of total production, which exposes the country to severe economic risks in case of drought.

By capitalizing on readily available low-

grade coal resources, and diversifying away from hydropower, the project thus serves as a good example of mitigation and adaptation to climatic changes in the region. The power plant will use well-proven and advanced technology featuring high combustion efficiency and reduced GHG emissions for a lower overall environmental footprint.

The loan disbursement will only be made upon MCL completing various conditions precedent. The conditions include closure of satisfactory loan security agreements.

MCL donates K20,000 to CIDRZ

Having spent over USD 1.75 million on corporate social responsibility within the last two years, Maamba Collieries Limited (MCL) donated another K20,000 to Centre for Infectious Disease Research in Zambia (CIDRZ) to enable their medical team to conduct a five-day medical camp for cervical cancer screening.

The company donated the cheque to CIDRZ at a colourful ceremony held at the Government House—Republican Vice President’s official residence—on Friday, 30th August 2013.

MCL’s Head of Corporate Affairs Mr. Janardhan Lavu handed over the cheque to Mrs. Charlotte, the Vice President Dr. Guy Scott’s wife, for onward delivery to CIDRZ’s Chief Operating Officer (COO) Geoffrey Silwizya.

The K20,000 donation was for conducting the cervical cancer screening camp from 12th to 17th September, 2013.

The company was happy that Mrs Scott sought funding from MCL for the exercise. The programme brought immense benefits to the women of Maamba community.

At the same event, Mrs Scott said MCL had demonstrated incomparable efforts to investing in ordinary people and that the Minister’s Spouses Club would continue to work closely with the company.

Mr. Silwizya said MCL had encouraged CIDRZ to consider opening a permanent centre for cervical cancer screening and treatment at Maamba Hospital.

The handover ceremony was also attended by a team of medical doctors and nurses from CIDRZ.

The gesture was a demonstration that improving health ranks high on MCL’s list of priorities.

During the five-day medical camp that focused on cervical cancer, MCL spent a total of K100,000.

The programme involved ferrying women from various localities such as Sinazongwe and chief Mweemba.

The company decided to go an extra mile in helping with transport following a request by the Ministers’ Spouses Club through Mrs. Purity, Wife of Deputy Minister of Commerce,

Richwell Siamunene.

A team of two other medical personnel from Maamba was also engaged.



MCL Head of Corporate Affairs Janardhan Lavu handing over the cheque to Charlotte, his honour the vice president Guy Scott’s wife



MCL Chief Operating Officer (COO) Gurram Venkata-Narayana (striped t-shirt) and Maamba Development Trust (MDT) Manager Jethro Sikalunda pose for a photo with the SDA women who were found at Maamba Hospital cleaning the premises



The CIDRZ medical team on hand to attend to patients during the Medical camp

Part of the crowd that attended the MCL Medical camp held from 12th to 17th September 2013

724 women screened at MCL cervical cancer screening Camp

A total of 65 women out of the 724 who were screened of cervical cancer at a free medical camp sponsored by Maamba Collieries Limited in Sinazongwe tested positive to the disease.

Seventeen of them were found with severe cancer and referred to Monze general hospital for further medical attention while 48 others were treated during the camp at Maamba Hospital.

The company is happy with the huge turnout but the service could not cope with the demand despite management's decision to extend the camp from the initial three days to five days.

The medical camp focusing on cervical cancer was held from September 12 to 17, 2013 and was graced by Madam Phosile Sichinga, wife of Agriculture Minister Robert Sichinga.

A team from the Centre for Infectious Diseases and Research in Zambia (CIDRZ) led by Susan Banda, who were engaged by MCL, recommended that

stakeholders should sponsor another camp in March next year to coincide with the review of those who were treated.

Sinazongwe District Commissioner

Dodo Sindaza praised MCL for the gesture. MCL Chief Operating Officer Mr. Gurram Venkata-Narayana said MCL has demonstrated high levels of care for the residents of Maamba by sponsoring the third medical camp this year.



Sinazongwe District Commissioner Dodo Sindaza addressing residents during the cervical cancer medical camp. Looking on (middle) is Mrs. Phosile Sichinga (far left) Spouse of Minister of Agriculture Mr. Robert Sichinga and Mrs. Purity Siamunene, Spouse of Sinazongwe MP, Mr. Richwell Siamunene.

Maamba Collieries launches 'clean, green and plastic-free' campaign



Sinazongwe District Commissioner Dodo Sindaza (middle) also participated in the clean up exercise

Hordes of residents in Maamba joined the 'clean, green and plastic-free' campaign launched by Maamba Collieries Limited to keep the town clean and environmentally friendly.

The campaign sits within the government effort dubbed 'Make Zambia Clean and Healthy' which is a permanent feature to encourage Zambians to maintain their surroundings clean and avoid water-borne diseases such as cholera.

The event to launch a sensitization programme in Maamba was held on July 16, 2013 led by Chief Operating Officer (COO) Mr. Gurram Venkata Narayana.

Employees, their spouses and other residents turned up in large numbers to fulfil their corporate theme of a clean, green and plastic-free Maamba Collieries Limited.

Mr. Narayana explained that the program to sensitize the community on the need to keep Maamba, clean, green and plastic-free was important as the population of Maamba would continue growing with the increased investment.

This will generate more solid

waste in the township and there was therefore, need to keep the community informed about hygiene at household level.

He said the vision of new Maamba management was to see an environmentally clean and green Maamba township.

SHEQ Manager Mr. Andrew Tembo told the gathering that it was imperative to keep Maamba clean, green and plastic-free as this would assist in reducing greenhouse emissions to the atmosphere.

He emphasized that plastics are non-degradable and there was need to recycle them which would help generate income.

Mr Tembo said there was ready market in the capital Lusaka provided by firms that had invested in recycling plastic wastes.

The Guest of Honour, Mr. Dodo

Sindaza who is Sinazongwe District Commissioner challenged the community of Maamba to get rid of solid waste to prevent the incidence of cholera and other diseases.

Mr. Sindaza suggested that household competition on cleanliness be introduced to motivate the local people with incentives.

After the speeches, a sensitization walk was conducted in which the marchers walked from Kanzinze Football Stadium to Maamba Shopping Centre via Maamba Batoka Road.

This was punctuated by public announcements and displaying of banners bearing messages about hygiene as marchers picked solid waste and dumped them in vehicles for onward disposal.

The aim is to beat MCL's own record under environmental protection.

Safety management system at MCL

One of the major hallmarks of MCL's success is that the company has ensured that mining activities, the Coal Handling and Processing Plant (CHPP) and the power projects operate within the prescribed safety requirements. The targets include accident-free mining practices and zero risks.

Our Vision

To be a leader in coal mining and coal based power generation in Zambia through sustainable development of resources.

Our Mission

To be a dependable source of energy in the form of coal and thermal power generation in Zambia and the surrounding region

Our Goal

Implementation of Integrated Quality, Energy, Safety, Risk, Health and Environmental Management Systems (policy) for a sustainable future

Objectives of new management at MCL include revival of coal mining activities with scientific, efficient and environmentally friendly operations. Having set up the CHPP, the company is now preparing to start the establishment of mine-mouth, coal



MCL employees and residents collecting garbage from the township

fired, eco-friendly power plant, using thermal grade coal and rejects as fuel.

Along the way, MCL intends to put up

incomparable social, economic and ecological systems that will meet all the requirements.



MCL refurbishes key road in Maamba

Maamba Collieries Limited (MCL) has started constructing a key road in the township to ease transportation challenges for the local people.

The road under construction starts from Izuma Lodge to the Maamba Mine gate and is used by various people including farmers and residents in general.

The company is putting tarmac on the pot-holed road that was last maintained in the 1960s.

The new management at MCL has engaged Pro Consult to tar the road from the heart of the township to connect to the road that leads to the stadium and linking it with the road to the mine.

According to the agreement signed between MCL and the contractor, the construction period is expected to last 30 days.

This is one step by MCL to further deliver on corporate social responsibility in all areas including construction.

Maamba town has generally been rundown after many years of lack of investment in infrastructure.

Contractors team up to launch safety programme

By Harry Kanyandi, Chief Safety Officer

Contractors for Maamba Collieries (MCL) have appended their signatures to launch the safety month that will run from June 2013 until the construction of the power plant is complete.

With the signing of the Health Safety and Environment (HSFE) document at SEPCO offices, all the Power Plant construction site workers affirmed the alert towards safety.

The gathering ended with signatures appended on the banner to declare

solidarity and readiness to meet the job challenges for the coming months up to completion of the project. MCL has so far lived above board in the area of safety by recording zero fatalities since the new management team took over the mine in 2010.

Contractors appending signatures after the speeches



The following shows the activities (projects) under CSR Sewage Pond



Dump site at Mayakayaka under construction



Six stabilisation sewer ponds are under construction to help facilitate the ever increasing waste management in Maamba - New sewer ponds under construction



Women in Maamba at the market celebrating the donation of waste bins by MCL in collaboration with Wako Minerals

The company has procured garbage handling bins for the Maamba community. The bins have been placed in various corners and strategic locations of the township to ease the disposal of waste.

A look at ZAMCOAL Diggers performance

Maamba Collieries Limited (MCL) has fueled its club, the Football Association of Zambia (FAZ) third division club Zamcoal Diggers after purchasing 35 new football boots during the month of June, 2013.

The Chief Financial Officer Mr. Lakshimi Narayana handed over the boots to the club and encouraged them to work extra hard to satisfy the interests of the sponsors and the community.

Sponsorship of the football club is part of the MCL plan to invest in the community through enhanced entertainment.

Zamcoal Diggers has raised the profile of its performance in the recent years and is clearly headed for promotion to the first division.

Having finished second in the FAZ third division league during the 2012/13 season, the club has jumped to the top position this year and appears set to win promotion to the second division.

Zamcoal Diggers scored 44 goals against 19 which it conceded during the season. In the 2013 season, Zamcoal Diggers has played almost all the games. Its performance has been steady and around June, the team led the third division by three points.

Among the highlights of the achievements is the sending of Mr. Spencer Sautu to the under 17 National Soccer Team that participated in the regional tournament that took place in Lusaka.



Football boots procured by MCL for ZAMCOAL Diggers




Chief Financial Officer Mr. Lakshimi Narayana during the handover of the boots


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

Maamba Collieries Limited
Head Office
P.O. Box No.99, Maamba, Zambia

For product enquiries please Contact:

Mr Taona Kalunga
Sales and Marketing Manager

Lusaka Office
Corporate Park
Plot No. 20849, Altek Nkata Road,
Mass Media Area
P.O. Box 31197, Lusaka, Zambia
Tel/Fax: +260 211 256010, Tel: +260
211 250381
Mobile: +260 962 565973
Email: sales@maambacoal.com
Website: www.maambacoal.com