

MCL builds Technical Training Institute

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ZCCM-IH board, senior managers tour MCL

A HIGH-POWERED delegation of Board members and officials from the Zambia Consolidated Copper Mines Investment Holdings (ZCCM-IH) Limited has visited Maamba Collieries Limited (MCL) to appreciate the US\$800 million investment.

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Foreword by the Resident Director Mr. Ashwin Devineni

Zambia is now 50 years old as a country. We want to congratulate the government and the people of Zambia.

It is hoped that this success will continue. Peace and prosperity is good for Zambia. As MCL, cherish peace because it gives the people a chance to have long term plans. It guarantees certainty for their investment and continued growth. We are happy to be associated with investment in Maamba.

There have been too many important days on our calendar but we consider this day as highly important .

It is a day when the people of Zambia remember the fore-fathers of the country who fought for freedom. On behalf of MCL, we wish to thank the freedom fighters for helping to put Zambia where it is today. We pay special tribute to Zambia's liberation hero Dr Kenneth Kaunda and all those who fought alongside him to gain independence.

It must be acknowledged that Maamba Collieries has played a great role in contributing to the industrial growth of the country. The company started playing this role soon after independence. The wish of the new management is to continue working closely with the people of Zambia and those of Maamba in particular.

Natotela sana mwe banandi. Ddalumba kabotu.

Stay blessed and happy 50th Independence anniversary

Mr. Ashwin Devineni

Resident Director



Johann Wessels : Meet the new MCL SHEQ Manager

Johann Wessels joined MCL on the 22nd of April 2014.

He holds a Bachelor of Science Degree in Health , Safety and Environment Management from Kingsbridge University in the United States of America.

Johann has eleven years of Health, Safety and Environment management experience.

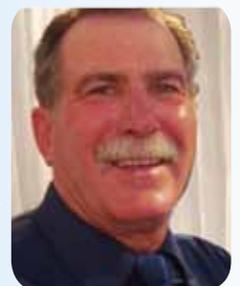
Prior to joining MCL, Johann was the Project HSE Manager for Group

Five Projects on the Kibali Gold Project in the Democratic Republic of the Congo, a position which he held from the brownfields stage of the project until completion of the contract at the end of October 2013.

In addition, he has extensive experience on overseas projects governed by US Army, DOD, USACE and AFCEE. as well as expat experience in Uganda, Tanzania and Democratic republic

of the Congo.

He is affiliated to the South African Institute of Occupational Health and Safety Practitioners as well as the International Institute of Risk and Safety Management.



ZCCM-IH Board tours MCL

From front page

ZCCM-IH holds 35 per cent shares in MCL while Nava Bharat owns the remaining 65 per cent.

The eight-man team included Delegation leader Mr. Cosmas Mwananshiku, Ms. Sophie Muntemba, Mr. John MD Patterson and Mr. Philippe Taussac.

Others in the ZCCM-IH delegation included Chief Operating Officer Ms. Mutale Chanda and Mr. Charles Mjumphi, the Corporate Affairs Officer.

The visit was undertaken on Monday, 9th June 2014 to enable the ZCCM-IH team understand the operations of MCL and the progress in the construction of the 2 x 150 MW power plant.

The joint tour was facilitated by MCL team that included Resident Director Mr. Ashwin Devineni and Director Mr. Essau S.S Nebwe.

MCL Senior Management team members included Chief Operating Officer Mr. Gurram V. Narayana, Chief Financial Officer Mr. Lakshmi

V. Narayana and Head of Corporate Affairs

Mr. Janardhan Lavu.

for 900 MW and excess capacity for the Power Transmission Line was planned to serve other power producers in future.



ZCCM-IH board members, senior management staff and MCL senior staff listen to a presentation by MCL power plant project manager Gadde Ramesh.

The ZCCM-IH team learnt that the Power Plant Water and Power Transmission Systems are designed for 600 MW capacity.

There is sufficient low grade coal

The Power demand is high in the region, inquiries have been received from Botswana and Namibia; however, MCL will first satisfy the demand from ZESCO.



ZCCM-IH board members, senior staff and MCL senior managers during the conducted tour of the mine and power plant.

The power plant is environmentally friendly and can run on very low grade coal up to 53% Ash.

The Fly Ash produced from the power plant will be sold to cement plants whilst the bed ash will be used to back fill voids in open pits.

Earlier, Mr Devineni welcomed the Board of Directors of ZCCM-IH and expressed gratitude as it is the first time since NBS took over the operations of MCL that the Directors of ZCCM-IH visited the plant.

He informed the Board that MCL Management was excited about the visit and would like to show as much as possible of what had been done so far post-privatization.

MCL meets university students

In its continued effort to engage with stakeholders and present progress reports in the construction of the 2 x 150 MW power plant, Maamba Collieries Limited has been meeting students

at the University of Zambia and Copperbelt University.

This is another step towards recruiting the third group of graduate engineers to join the power plant.

The company targets to recruit 80 graduate engineers in total.

The preferred trainees are those that are in the last year of training at the two institutions. MCL would like to complete this recruitment by December, 2014 so that those

selected could start their training in January, 2015. The required fields are electrical, civil and mechanical. The MCL team met the students and Deans of Students during the months of August and September.

The team composed of:

- Mr. Patrick M. Nalumino – Human Resource Manager
- Mr. V. Srinivasa Rao – Mechanical Engineer (TPP) and Head of Training for the Trainee Engineers
- One Trainee Engineer.

Animal life on MCL Golf course



Power plant update: 70% complete

There has been progress in the construction of the 2 x 150 MW power plant by Maamba Collieries Limited. By September 30, 2014, about 70 per cent of the power plant had been constructed.

Commissioning is likely to take place in 2015. The company's resolve to work towards completion is because of consideration of the value of the project to the Zambian industry and domestic consumers.

There has also been progress in constructing other facilities related to the power plant such as the 330kv power line to Muzuma.

MCL is constructing the power plant which is widely expected to help end electricity black-outs commonly referred to as load-shedding which have threatened industrial activity for several years.



MCL contractors performing mock drills as a way of enhancing safety and avoiding accidents.

MCL builds Technical Training Institute

TEVETA recently visited the institution and commended MCL management for the high standards that have been set for the quality of the institution and the training materials.



Inside view of the MCL training institute

Maamba Collieries Limited (MCL) has constructed and opened an upmarket Technical Training Institute to cater for the growing demand for technical education in Southern Province.

The school is located within the premises of the 2 x 150 Mega Watt power plant and the coal mine.

The Technical Education, Vocational and Entrepreneurship

Training Authority (TEVETA) has licensed the training school as a Grade 2 vocational institution.

This means that TEVETA would be responsible for conducting examinations for students. To this effect, MCL has made head-way in the recruitment of training staff.

TEVETA Director in charge of training standards, Cleophas Takaiza, recently visited the

institution and commended MCL management for the high standards that have been set in the quality of the institution and the training materials.

MCL's decision has been made in order to address the challenge of lack of skilled manpower for jobs that have been outsourced from other parts of the country as opposed to recruiting from within Sinazongwe district, Southern Province.



Student Engineers during field training



Students on field Training as part of their practical work

Maamba Colliery



Chief Operating Officer Mr. Gurram Venkata Narayana addressing MCL employees during the open forum



Students at NORTECH pose for a photo with the MCL Team



Water clarifiers under construction



Part of the Kariba Pump Station under Construction works



From L to R MCL Human Resource Manager Patrick Nalumino, Mechanical Engineer Vasireddy Srinivasa Rao, Head of Training Cherukuri Venkateswara Rao, pose for a photo with NORTECH Training Manager Martin Kasonso in Ndola on 29 August, 2014.

ies Photo Focus



ZEMA Officials conducting an environmental audit at MCL

Engineering Institution of Zambia (EIZ) Chairman Bernard Chiwala addresses Engineers during a public discussion recently



MCL Chief Operating Officer Gurrām Venkata Narayana (far left in a cap) at the golf course recently



PRESS RELEASE

MCL sends Graduate Engineers for further training in India

Maamba Collieries Limited (MCL) has started sending its graduate engineers to India for their on-site training in coal-fired power plant operation and maintenance. The training will be provided at the Power Plants of Nava Bharat.

The first group of 18 engineers left for India on 19th September 2014 are expected to return on 31st October, 2014. The next group of 16 engineers would leave for India on 1st November, 2014 and return to Zambia on 31st December, 2014.

This is part of the programme by the company to create employment for the Zambian Engineers, even for jobs that would have ordinarily been reserved for expatriates.

MCL has so far recruited 34 graduate engineers from the local universities and colleges within the country in various engineering disciplines.

MCL is owned by Nava Bharat of Singapore and Zambia Investment Holdings Limited (ZCCM-IH) with 65% and 35% shareholding, respectively.

While the Mining Division of the company is carrying out coal mining operations to supply Zambian Industries and the surrounding countries, the Power Division of the company is constructing a 300 Mega Watts Coal Fired Power Plant (CFPP) in order to add power to the National Grid.

An additional 36 graduate engineers will be recruited by the end of this year to bring the total number of graduate engineers to 70 who will then run the power plant when it is commissioned next year.



NBV Chairman D. Ashok talking to Trainee Engineers in India

On Thursday, 19th September, 2014 Minister of Mines, Energy and Water Development Mr Christopher Yaluma sent-off 18 Zambian engineers under Maamba Collieries Limited for further training in coal-fired power plant Operation and Maintenance. In the picture, Nava Bharat Ventures (NBV) Limited chairperson Mr D. Ashok addressing trainee engineers when he welcomed them to one of the power plants. This was at Palocha where NBV owns a power plant similar to the one under construction in Maamba. Mr Ashok extended a warm welcome to the first group of MCL Trainee engineers during the on-going off-shore training. He encouraged the trainees to enhance practical competence and skills in power plant Operation and Maintenance by understanding the facilities existing at the power plant in that country—Picture by Eng. Vasireddy Srinivasa Rao



Over view of the 2 x 150 MW Coal Fired Power Plant on completion



Trainee engineers observing desk operations at one of the coal fired power plants owned by Nava Bharat Ventures Limited in India

Focus on send-off Ceremony

Minister of Mines, Energy and Water Development Mr. Christopher Yaluma sent off 18 trainee engineers to India at an MCL ceremony held at his official boardroom on Wednesday 18, September 2014.

The ceremony was attended by all the engineers, the media and senior officials from the Ministry of Mines.

In his address to the engineers, Mr Yaluma was glad to note that MCL has spent over US\$1,300,000 on Corporate Social Responsibility (CSR) particularly on roads, health and support to the community such as cultural events.

Mr Yaluma cautioned the trainee engineers to avoid over excitement while in India by respecting the culture of the Indian community for the duration of their training.

The Minister said the team must respect the traditional values of Zambia of good conduct because they are ambassadors of the Zambian people while in India.

The engineers are expected to be in India for on-site training in power plant operation and maintenance to promote technical skills transfer and build capacity in the local engineers.

Meanwhile, MCL Head of Corporate Affairs Mr Janardhan Lavu challenged the engineers to listen to instructors carefully because that is what would determine their future careers.

He said the good decisions the company was making had resulted from the strong relations the company was enjoying with the Zambian government, the Zambia Consolidated Copper Mines—Investment Holdings (ZCCM-IH) who hold 35 % shares in MCL while the rest are owned by Nava Bharat.

Mr Lavu said ordinarily, the company would have contracted expatriates in coal fired power plant operation and maintenance but had decided to give the opportunities to the local engineers as a way of meeting the government's vision of promoting employment for the local people as well as technological and skills transfer.

Mr Yaluma said MCL has demonstrated high standards of good corporate conduct.



From (Right to Left) Minister Yaluma, Mr Lavu, MCL Office Manager Charity Chitalu and some trainee engineers during the singing of the National Anthem



Minister Mr. Yaluma (in the middle with checked shirt and black jacket) poses for a photo with the graduate engineers. On the far right is Ms Chitalu followed by Mr Lavu

Maamba Community tours the Mine and its surroundings

The community in Maamba has toured the Mine and its surroundings in order to give them a detailed understanding of the operations of the company. In his address to the community, MCL Chief



Operating Officer Gurram Venkata Narayana said the mine belongs to the community. He said as such, the residents have a duty to help protect company facilities and treat the company as theirs. MCL has taken a deliberate a policy to give first priority to the local youths when it comes to employment creation. The company remains determined to work closely with the members of the community and was also open to constructively discuss matters that benefit the



community. The residents were driving to the open pit mine and the power plant for them to appreciate the activities being undertaken.

MCL introduces an interaction activity with Maamba residents

MCL has recently introduced a system where it invites residents from the community to interact with the company facilities. The company does this by subsidizing food supplies and

refreshments which are then taken during the interaction. The social interaction event takes place every two weeks. The aim is to enhance ownership of the company. In the

pictures below, the residents in the jovial mood as company chef prepares braais.

The event takes place at the company's Golf Club.



MCL employees during the Open day held on Thursday, October 2, 2014 at MCL Headquarters in Maamba organized by management to share ideas and concerns about company operations



Zambia turns 50: MCL perspectives

As Zambia turns 50 on 24th October, 2014, Maamba Collieries Limited (MCL) wishes to join the celebrations from several standpoints.

The company has been there and contributed hugely to the economic development of the country by powering the industry through the provision of coal. It must be noted that the company is among the oldest and certainly one of the flag bearers of independence.

The company was planned and developed by SOFRE-MINES In 1969 on behalf of the National Coal Board of Zambia.

The French company 'Venot Pic' designed and erected the Coal Preparation Plant (CPP) a year later in 1970.

The Ropeway, for the transportation of coal to the rail line was designed and erected by the West Germany Company 'PHB' in 1971.

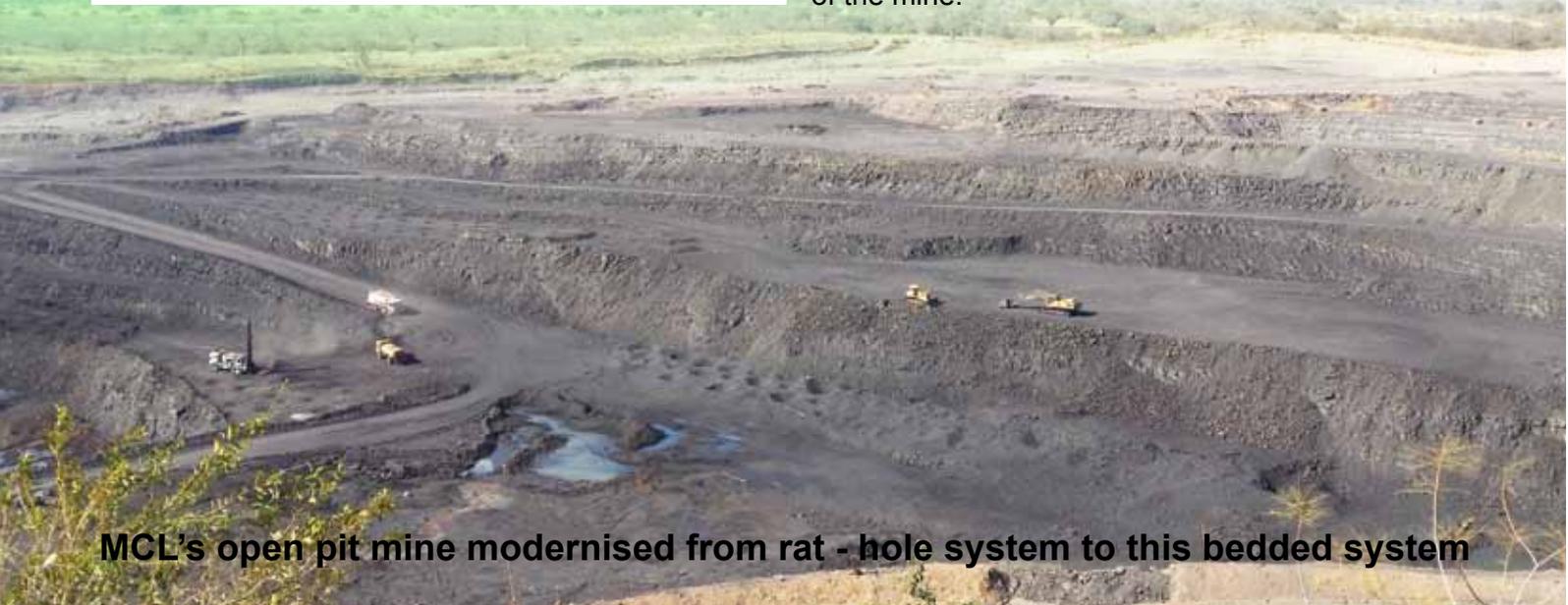


In the same year, the National Coal Board of Zambia was dissolved and Maamba Collieries Limited (MCL) was established.

MCL was incorporated as a limited company in Zambia wholly owned by the Government of the Republic of Zambia (GRZ).

In 2008, Zambia Consolidated Copper Mines Investment Holding (ZCCM – IH) bought 100% share holding of Maamba from the Government. However, in line with the policy of liberalization which encouraged private ownership of parastatal companies, the government put MCL for privatization through a global bidding process

On 26 April 2010: Equity Partnership between ZCCM-IH and Nava Bharat (Singapore) pte Limited was concluded after which Nava Bharat acquired 65% stake in MCL and total control of the management of the mine.



MCL's open pit mine modernised from rat - hole system to this bedded system

Former Zambia U-17 coach joins Zamcoal Diggers

Maamba Collieries Limited (MCL) has engaged the services of former Zambia Under-17 national soccer team coach Chris Chibuye as new head coach of ZAMCOAL Diggers Football Club.

Chibuye's target includes saving the team from relegation having struggled to find feet in the competitive first division. The team currently stands second from the bottom in the league.

MCL management hopes Chibuye will use his vast experience in managing premiership teams such as Red Arrows, Roan United, Mufulira Wanderers and national youth teams to transform Zamcoal Diggers.

On his first day, he recorded a 1-all draw against Mazabuka United at Kanzinze stadium in Maamba after a stretch of losses before he joined the team.

Chibuye holds CAF/UEFA and KNVB Soccer Coaching Instructors' certificates and has worked as an expatriate coach and technical director in Botswana and Namibia where he twice won the league.

He is accredited with saving some Premier Division clubs such as Red Arrows and Road United from relegation when he had stints with these teams having joined them mid-season.

When he Coached Civics Football

Club of Namibia, Chibuye led the team to the second round of the CAF champions League, the first time in the history of Namibian football.



ZAMCOAL Diggers Coach Chris Chibuye

Honour Janza: From Zamcoal Diggers to national team as coach

Zamcoal Diggers Football Club and Maamba Collieries Limited (MCL) is proud to be associated with national soccer team coach Honour Janza.

Janza started his playing career

at Zamcoal Diggers before he switched to Mufulira Wanderers where he exerted maximum impact until he started playing for the national soccer team. Janza is now Coach of the Zambia National

Soccer Team.

Zamcoal Diggers Football Club and MCL wish to express profound appreciation and congratulate Janza on his new role in the national team.



MCL Empowers School Sports Team

Maamba Collieries Limited (MCL) has spent about K8,415 to procure sports kit for Maamba Private school pupils.

This is to facilitate their active participation in sports activities in the province. The decision is part of the many activities undertaken by MCL under corporate social responsibility.s



In this picture, the pupils pose for a photograph taken during the month of July 2014.

Jokes

Zimandola boarded a bus to Ndola. Before the bus started off, he told the bus conductor to alert him when they reach Kapiri-Mposhi. The conductor, however forgot to inform him until the bus reached Ndola. Zimandola asked how far they were from Kapiri-Mposhi.

The conductor was so shocked that he

forgot such an assignment. Seeing that Zimandola was young, other passengers demanded that the bus makes a u-turn back to Kapiri-Mposhi to ensure his safety. The conductor tried to resist and offered that he pays for his fare on another bus to Kapiri-Mposhi but they refused

until the bus turned back, another 120 kilometers. When they arrived in Kapiri-Mposhi, everyone was shocked to see Zimandola opening his bag instead of dropping to walk home.

Zimandola told the sympathetic passengers: They told me to eat my rice when we reach Kapiri-Mposhi.

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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