



MCL organises medical camp as jubilee gift

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Foreword by the Resident Director Mr. Ashwin Devineni

On behalf of the Board, management and employees of Maamba Collieries Limited (MCL) let me express my utmost joy that on October, 24, 2014, the company was able to conduct a medical camp for cervical cancer screening.

What a good way to commemorate 50 years of Zambia's independence. The company felt duty-bound to provide medical services to the community while celebrating independence jubilee. We are happy that the team of medical personnel we mobilized were able to conduct other services apart from cervical cancer.

May I thank MCL employees who did their part, in whichever way, to ensure that the medical camping was successful.

As a company, we believe that the biggest gift we have are the residents of Maamba who have been very friendly to the company. We hope that we will continue working closely with the residents in any way possible.

Enjoy the reading.

Mr. Ashwin Devineni

Resident Director



Meet Rear Admiral Venkat Shankar (RETD)



Rear Admiral Venkat Shankar

An officer with a Defence background, he brings with him nearly four decades of experience in leadership, organisational and management positions in the Defence and Energy sectors of Government of India.

Rear Admiral Venkat Shankar has held a senior diplomatic post in the High Commission of India in South Africa. He holds an International MBA in Petroleum Management and a Masters in International Relations and Strategic Studies.

The new MCL Chief Executive Officer, also served as an Advisor to the Government of India on Offshore Security and Defence prior to taking up the present assignment at MCL.

Energizing Zambia

300 MW Power Plant under construction, Maamba

Wishing all of you and your families, heaven's blessings for Merry Christmas & peace, prosperity, health and harmony in the New Year

G. R. K. Prasad

Ashwin Devineni

D. Ashok



MCL Legal Manager Mwape Kaira Bade fairwell to bachelorhood when he married Emmy on 27th December 2014 at a colourful wedding held at Sandys Creations in Lusaka

Section B - Corporate Social Responsibility

Medical camp as a jubilee gift

Maamba Collieries Limited (MCL) has successfully conducted the free medical camp as a jubilee celebration for the residents of Maamba.

A total of 226 people were screened for cervical cancer and other diseases during the screening programme that was conducted from Wednesday, October 22 to Thursday, October 23, 2014.

The activity was an initiative of, and sponsored by MCL at a total cost of K100,000.

MCL sponsored health personnel from the Centre for Infectious Disease and Research in Zambia (CIDRZ) and Ministry of Health.

The activity started with an official launch of the two-day



Women at the Medical Camp

medical camp by Sinazongwe District Commissioner Mr Dodo Sindaza who was the guest of honour.

The team had three screening rooms for Cervical Cancer and one room for Obgyn cases

where Doctor Samson Chisele was able to see all referred cases from the nursing team.

Zambia was celebrating 50 years of independence. The country gained independence on October 24, 1964.



TEVETA Inspection team happy with training institution

In the picture above, the TEVETA team with MCL officials

By Vasireddy Srinivasa Rao

TEVETA inspection for accreditation of Welding Course took place on Wednesday, 03rd December, 2014. During the inspection TEVETA Quality Assurance Officers inspected all the tools and equipment and found that the institute met the required training standards as required by TEVETA. The inspection results were as follows:

AREAS INSPECTED	REMARKS
Qualifications of Management and staff	ok
Availability of Trainers	Ok
Safety ,health and environment	Ok
Class rooms	Ok
Staff offices	Ok
Furniture	Ok
Work shop	Ok
Tools	Ok
Equipment	Ok
Examination facilities	Ok
Storage facilities	Ok
Water reticulation	Ok
Sanitary rooms	Ok

MCL Management wishes to assure the general public and TEVETA that the standards will be maintained

TEVETA Inspects MCL welding training centre



Welding Shop



Mr Fred Siapaka, one of the instructors, demonstrating welding

The institute was provisionally given permission to start offering Welding Course with effect from January, 2015. The Accreditation Certificate for the centre is expected to be issued by TEVETA during first week of January 2015.

The Quality Assurance Officers appreciated MCL management for the newly constructed training institute that was well furnished and equipped with the state of the art training equipment. They expressed hope that the institute will provide the much needed training among community members, especially the youth.

They further encouraged MCL to consider offering Craft Certificate Level courses. They also expressed confidence that the MCL Training Institute would soon become a Grade 1 training Institute.

MCL Management informed the TEVETA Officers that a number of applications had been received



Mr. Vassreddy Srinivasa Rao, Head Training, explaining some of the welding tools to TEVETA Quality Assurance Officers

from community members that wanted to train at the institute.

MCL will provide training to community members under its vocational training centre as a Corporate Social Responsibility (CSR) activity.



MCL CEO interacting with pupils at Maamba Private School



MCL Management handing over books to Maamba Private School. The books were worth ZMK111, 000.00.

Maamba sings along on Jubilee

Maamba Collieries Limited (MCL) led the celebrations to mark 50 years of Zambia's independence in Maamba by lining up a number of activities.

The company hired a musical band, Mpande from nearby Choma to perform at MCL's Kanzinze Stadium.

A huge number of residents turned up to celebrate the local music flavor in the evening of 24th October, 2014.

On this same day, in the afternoon, the team organized a team of medical practitioners to conduct a free cervical cancer screening at Maamba Hospital.



Some MCL officials during the celebrations

Section C - Mining & Energy



The artistic impression of the control room when the power plant is operational

Power plant boiler hydro tested

By Ravi Chandra

Several milestones have been recorded in relation to the power plant construction with Unit-1 of the boiler hydro successfully tested on 18th January, 2015.

The testing was attended by Chief Inspector of Boilers from the Ministry of Labour and Social Security.

This has been achieved after complete erection, alignment and welding of unit-1 boiler pressure parts which include erection of water walls for furnace and second pass, super heaters, re-heaters, interconnecting piping, drain lines, vent lines, sampling piping including, among others, the instrument tapings.

A total of 12,155 high pressure joints have been

welded and tested using advanced systems such as radiography testing, Ultrasonic testing, post and pre-weld heat treatments methods.



The tests ensure that the system is able to withstand high pressure and super heat temperatures.

Maamba Collier



As part of its CSR programmes, MCL worked on the road that goes to Maamba Airport and the villages beyond. In the picture a tipper truck reworking the road which links the town to other parts of the country

The construction of the raw water pipe line is now complete



Progress on the construction of the water reservoir

Heads of Departments Mr. G. J. M Babu, AGM, Mr. B. L Prasad, AGM and Mr. B Rama Rao, DGM meet MCL Trainee Engineers who were in India for training



MCL Meeting some of the project affected persons. The meetings are aimed at educating the community to avoid encroachments and protect their company's property

ies Photo Focus



Part of the Maamba residents touring the newly constructed visit at the resettlement site. The company has built 63 modern houses to allocate residents who were removed from the grass-thatched houses in areas where MCL is constructing the power-plant support structures



Nava Bharat Ventures Limited Chief General Manager Mr. K. P Kishore, delivers his message to the Trainee Engineers in India



The newly constructed 330kv power line from Maamba to Izuma Conductor pulling works



An aerial view of unit-1 turbine works



Unit-1 coal feeders



Side view of the 300 MW Power Plant under construction in Maamba.



Orientation Lecture on Maintenance of Generator and its AUX Equipment by Mr. M. Venkateswara Rao, DM, Electrical



Observing Desk Operations in NBVL Control Room

Engineers ready to operate and maintain power plant after training

After undergoing an intensive training in India in coal-fired power plant operation and maintenance, the Zambian trainee engineers are now ready for the work ahead.

The engineers have been trained in specific disciplines necessary for the power plant.

Maamba Collieries Limited decided to send the trainee engineers for further training in India because the coal fired power plants are rare and do not exist in Zambia.

MCL is constructing the 2 x 150 MW power plant in Maamba and to avoid, bringing expatriate employees from abroad to operate and maintain the power plant, the company decided to employ local trainee engineers and retrain them as part of the skills transfer.

The trainees have been trained in Local instrument maintenance, boiler Instrumentation, SWAS (Analyzers, Electrical operated valves, Pneumatic control valves operation & dampers, and

Interlocks & protections-Drives). Other areas include, ash plant operation (mechanical system), PLC system –Ash plant as well as other PLC systems in the plant.

Experts such as Mr L. Jagannadham trained the engineers in welding and pumps another eminent personnel who is having four decades of experience and who is working as chief training officer Mr.Raghavendra Rao trained the trainee engineers in control and instrumentations domain.

NBVL ceremoniously sends off MCL trainee engineers

A send-off ceremony was organised for MCL Trainee engineers by the management of NBVL on 28th October, 2014.

The ceremony was graced by the presence of all Heads of Departments of Nava Bharat Ventures Limited.

Speaking on behalf of MCL Trainee Engineers Mr. Vasireddy Srinivasa Rao, Head of Training, extended sincere thanks to all the team members who made their efforts in ensuring the success of the offshore training for MCL Trainee engineers.

He also thanked the NBVL management for the facilities provided and hospitality extended to the team while in India.

Mr. Srinivasa Rao encouraged the trainee engineers to retain the knowledge acquired and continue building their skills so as to be successful in commissioning, operation and maintenance of the

power plant. Mr. P. Ramesh, CGM, NBEIL addressed trainees. In his remarks he advised MCL Trainee Engineers to acquire more knowledge and to increase competence levels.

He further emphasized the need for hard work and good attitude towards learning technologies.

In his remarks, he encouraged MCL Trainee Engineers to retain the knowledge acquired and continue building it so as to carry out successful commissioning, operation and maintenance of the plant.

Meanwhile, NBV Chief General Manager Mr K.P. Kishore reminded the trainee engineers to focus on continuous learning about the power plant.

He said diligence and watchfulness was required in operating the plant

as any negligence would cause costly damage to the equipment in the plant.

Afterwards each trainee gave a vote of thanks. The common feature in their speech was gratitude to Nava Bharat Management for hospitality, mentors and other facilities provided. The Trainee Engineers further thanked MCL for according them an off shore training opportunity that enabled them to undertake practical training which helped them understand the plant thoroughly. Students thanked the training faculty/ mentors and MCL for providing physical training in the presence of equipment with which they could understand thoroughly.

Mr Raghavendra Rao, Chief Training Officer gave a vote of thanks. In his remarks, he extended thanks to everyone for successful completion of the off shore training. A social get together party and dinner was organized for MCL Trainees and NBV staff on the same day.



MCL Trainee Engineers pose for a photo with Managing Director, Mr. A. Venkat Rao

Kafue Gorge Training Institute team visits MCL

A team of senior management officials from Kafue Gorge Training Centre (KGRTC), on October 23, 2014 visited Maamba Collieries Limited to familiarise themselves with the operations of the company.

The Kafue Gorge team was taking visitors from Botswana Power

Corporation and Morupule 'A' Power Station who were in Zambia to look at the electricity sector in Zambia.

They were met by Power Plant Manager Gadde Ramesh who took them to the mine and the power plant under construction after a boardroom meeting.

The entourage comprised Brian Makungo, Training Manager,

Dean Musukwa, Mechanical Engineer Lecturer.

Those from Botswana included Tshepo Makowathi (Mechanical engineer) Galefengwe Leatame Electrical engineer for Botswana Power Corporation and Jimmy Hambo Kethabanetowe (Power Station Manager).

Others are Moses Kasemang (The Chief Training and Development Officer at Marupule Power Station and France Banyatsang (The Human Resource Development Manager at BPC)

MCL interacts with pre-school children on Diwali

The company also took time to distribute sweets to pre-school children as it celebrated Diwali. Boxes of sweets were procured from Lusaka to allow the children to be part of the celebrations.

In the evening of the same, MCL lit up the skies with fireworks much

to the amusements of the local residents.

The company invited local residents and pupils from the nearby Maamba private school to be part of the celebrations.

Diwali or Divali also known as

Deepavali and the "festival of lights", is an ancient Hindu festival celebrated in autumn every year.

The festival spiritually signifies the victory of light over darkness, knowledge over ignorance, good over evil, and hope over despair.



Pre-school children on Diwali

The 300 MW thermal power plant under construction at Maamba Collieries Limited. Construction works have now reached 80%



The 300 MW thermal power plant turbine with the casing

Bench mining has continued to be part of the process of making the mining area beautiful and attractive. The system also allows the mine to remain environmentally friendly by protecting vegetation while allowing it to grow in areas where mining has been exhausted.

SEPCO subjects its staff to safety examinations

SEPCO members of staff involved in the actual construction work are subjected to safety examinations from time to time. As a result of insistence on

high levels of safety, the company has not recorded any fatality since the new management took over Maamba Collieries Limited in 2010. The workers are examined on

the use of scaffolds, environment and general safety issues. Safety tips are given to employees every morning before they touch equipment. MCL is renowned for good safety levels wherever the company has presence. Below are the highlights of MCL's efforts in enhancing safety standards at the mine and the power plant currently under construction in Maamba.

Objectives of new Management:

- Revival of coal mining activity with scientific, efficient and environmentally friendly operations which includes the setting up of CHPP.
- Establishment of mine-mouth, coal fired, eco-friendly power plant, using thermal grade coal and rejects as fuel.
- Community development through CSR initiatives



Scenes of safety training which occasionally takes place at MCL to enhance safety



Scaffold training for sub contractors



Section F - Sports and Recreation



The CEO Rear Admiral Venkat Shankar (in white shirt) dines with employees to mark the start of the festive season

Pictures by Jethro Sikalunda



The MCL gym at the golf club in Maamba



CEO Rear Admiral Venkat Shankar cutting a cake to launch the Festive Season on the eve of Christmas Day at MCL Headquarters in Maamba



CEO Rear Admiral Venkat Shankar hands over a hamper to an employee in Maamba


(L-R) MCL PR Manager Patson Phiri, Legal Manager Mwape Kaira, Human Resource Manager Mr Patrick Nalumino, Administrative Manager Charity Chitalu, Administrative Executive Mumtaz Moosa and Head of Corporate Affairs Janardhan Lavu walk towards the grave of late President Michael Sata to lay wreaths



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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