



Palabora Mining Company Communications Department, has on its first attempt, successfully hosted a team of National Media broadcasters onsite from 29 February - 03 March 2024 - led by Mr. Abby Ledwaba - focused on telling PMC success stories.

The nimble team of reporters represented various media houses in the print, radio and television platforms. PMC enjoyed live coverage from all the visiting broadcasters including having the once in a lifetime opportunity to experience a television live crossing, where the journalist reports in real-time on television whilst within our operations.

PMC Shopfloor is indeed thinking bigger! The Media visit bore a multifold benefit beyond just telling our innovative success stories at a corporate level but by innovators themselves. The Communications Team managed to showcase on a national level, how the PMC teams are aligned, leading and performing at

industry peak.

The Media roadshow was a premier platform to:

- Grow the communications team and establish well rooted relations with media houses,
- Showcase our unique mining operations,
- Our efforts to preserve the environment and our seamless integration of people, machinery, and wildlife on site,
- Elevate the PMC brand and regain confidence as an industry leader,
- Build goodwill through sharing testimonies from critical local stakeholders such as the Municipality, Traditional Authorities, Enterprise Supplier and Development beneficiaries, and the Department of Education Circuit Managers.

The major success with which the Communications Team executed the Media Roadshow is evidence that the inception of the VIP division is indeed bearing fruits at unlocking the great potential of those who are willing to try within the workforce.

Mr. Wei, shared in his CEO Address at the last VIP Knowledge Sharing session that within the entire organization, SHOPFLOOR IS KING.

In that spirit, leaders must focus on encouraging their teams at all levels to reach their full potential. Creating platforms that stretch them, unleashing new curiosity, excitement, talents and capabilities. Rooting up a new desire within the workforce to want to be involved, contribute and participate. Each trusting their value. Recommitting to being better, being more efficient, collectively improving the business together.

SEE SOMETHING! SAY SOMETHING AND SAVE SOMEONE!

Acquisition of A Hand-held XRF Analyser

Idea Originator:

Bridget Mathebula

Idea Implementor:

Tony Mokalapa & Bridget Mathebula

Problem Statement:

The absence of instant analyzing equipment's for material identification and product quality declaration can lead to loading of material not designated for loading for a specific cargo requirement. This can result in lowering of intended product quality which is primarily the reason for customer complaint. Customer complaints can see the company image take a knock while revenue losses are guaranteed.

Solution:

Managing and controlling tasks through the magnetite dispatch route to supply customers with product accordingly to their set quality specification of 58, 62, 64 or 65 % Fe. During dispatch, samples are taken to confirm and ascertain material quality prior to loading.

Value Created:

Emits X-ray radiation for analysis, fast/instant analysis, laboratory quality results, on-site results, improving accuracy & elimination of human error.

Portable XRF Analyzer

Install Solar Streetlights on the main road

Idea Originator:

Frederick Kent

Idea Implementor:

Frederick Kent, Dipolelo Pilusa & Pieter van Rooyen

Problem Statement:

The entry/exit main road is very dark after sundown. This makes it dangerous because of the animals crossing the road. To install cables, it is very expensive and attract coper thieves.

Solution:

To install streetlights following the road from HR to main gate.
Keep our employees safe during dark hour travelling in and out of the mine

Value Created:

- This reduces reliance on non-renewable resources like fossil fuels.
- Solar lights operate at a minimal cost because they don't require electricity from the grid.
- Low environmental impact. They don't emit greenhouse gases, helps reduce carbon footprint.

Preventing baboons from getting into lugger bins

Idea Originator:

Patrick Letebele and Shaggy Mmetle

Idea Implementor:

Patrick Letebele, Shaggy Mmetle and Benjamin Ndoke

Problem Statement:

Most Baboons are capable of opening the General Waste Lugger Bin rolling door. These Baboons are constantly entering the lugger bins and thus causing litter in the workplace. The Power Plant area is filthy with litter, even many flies are attracted to the areas.

Solution:

Instead of installing a fence around lugger bin, the following was done: Re-designing the Lugger Bin hatch in order to make it difficult for baboons to open the hatch nor to enter into the bin.

Value Created:

- Baboons are now incapable of entering into the Lugger Bin. (Zero baboon incidents).
- No Litter at Power Plant Lugger Bin (Daily littering due to Baboons is now Zero)
- No more complaints from Smelter Management (Monthly complaints to zero complaints)

Value Created:

Value Created:

Batch Plant Bag Pallet to Reduce Waste

Idea Originator:

Lylence Hlungwane

Idea Implementor:

Lylence Hlungwane, Ally Usinga & Shaun Brown

Problem Statement:

The batching of concrete underground requires that all the raw material gets placed in a bag and transported U/G where it gets batched. The bags are reusable, but bag management is time consuming and a lot of bags go to waste.

Solution:

Normal practice U/G is to stack all the bags for several shifts and then use one trailer to bring out the re-useable bags. This causes a lot of damage to bags during the stacking and the leading process. The idea was to fabricate a steel pallet the size of a folded bag and have it standing next to the batch plant. Once a bag is emptied the bag gets place on the steel pallet and once the pallet is full it gets strapped and the pallet gets loaded on the first available trailer.

Value Created:

- Operational Efficiency, reducing the damage to the concrete bags during handling and transportation, saves costs if replacing bags.
- Reduces spillage of material due to improved handling.
- The dedicated mobile area with protective frames and straps for securing the bags on the pallet is effective in minimizing damage.
- Currently losing 140/1000 bags in a 3-month cycle and the indication is that we can bring this down to below 60/1000 bags in a 3 month cycle.
- The cost per bag is R548.00.
- Loss of 140 bags = **R76 720.00** per quarter (savings).

Before and After photo/s:

OUR SUCCESS STORIES

Controlling spillage at luggerbins

Idea Originator:

Douglas Hanker

Idea Implementor:

D. Hanker and T. Sekgobela

Problem Statement:

Controlling of Spillage at lugger bins due to Baboon entering the current lugger bin system.

Solution:

Douglas Hanker redesigned the Lugger bin to prohibit access from baboons, as this stop spillage and improve day to day housekeeping.

Value Created:

Minimize spillage, improve housekeeping, and lift moral as working areas stay clean even if baboons were travelling through the area. It also stops double work as previously cleaned up areas are not littered.

Before & After photo/s:

Value/Benefit

Cost Comparison - Design vs Impact			
Category	Cost	Unit	Comments
Manufacturing Cost	40000	1	
Steel	40000	1	2 x 3000 Pallets
Labour	10000	1	Installation
Paint	10000	1	Paint work
Spillage	10000	1	Spillage includes steel included in plant maintenance cost structure
Spillage	40000	1	Spillage includes steel included in plant maintenance cost structure

Optimization of Anode Moulds

Idea Originator:

Samson Banda, Johan Breitenbach, Eugene Nkwamba

Idea Implementor:

Kabedi Macheru, Lukas Viljoen, Samson Banda, Johan Breitenbach, Eugene Nkwamba

Problem Statement:

Smelter Anode Section cannot cast any anode copper without anode moulds. The current Moulds at Smelter Anode Section are not fit for operation because of multiple deep cracks on the moulds. Trading in the cracked anodes for newly casted anode moulds requires over R11million. The lack of good quality anode moulds shall cause Smelter downtime.

Solution:

Smelter For the Smelter Anode Section be ready for start-up, good quality moulds must be available: Repair the cracked Anode Moulds by copper welding and machining. (copper welding and copper machining was unknown to the operation – this is new to Smelter Operation.)
*Use machined copper pieces for Refinery Batch Plant to increase copper tenors in electrolyte

Value Created:

- Smelter Anode Section is thus made ready for start-up.
- Avoided the cost of casting new moulds at R11.7million.
- Downtime due to poor quality anodes is eliminated/avoided.
- Off-spec electrolyte will be in-spec upon electrolyte commissioning (38g/L to

Before and After Photos

Defeating Limitations of in-line Density Measurement

Idea Originator:

Sibusiso Sibuyi, Johan Breitenbach, Eugene Nkwamba, Sam Banda

Idea Implementor:

Kabedi Macheru, Rassie Smit, Cornelius Viljoen, Coreen Malatji, Lukas Viljoen, Siphwe Gama, Amore Mgiba, Willem Schaap, Harold Lubisi, Mark Mailula & Ntsako Mathebula

Problem Statement:

Baryte is used to coat the Anode Moulds before the casting of copper anodes. However, Operators have been mixing and coating Anode Moulds with Baryte Slurry density that is out of spec. To improve density control requires in-line density meter but the available density meters can only be installed on a 100NB pipe whilst the Baryte slurry pipe is 25NB

Solution:

Install VegaBar 82 device on the Baryte slurry tanks to measure both level and slurry density, thus avoiding the limitation of pipeline sizes. (measure density and tank level with one device). Automate the coating of the Anode Moulds with the in-line Density Meter to prevent the Anode Moulds from being coated with slurry density that is off-spec. Total cost of R300 000

Value Created:

(Avoid the cost of a new level transmitters (R400 000)
Avoid the installation of radioactive instruments in the plant area.
Avoid the cost of installing conventional density meter (R700 000)
Zero incident of Out of spec slurry density from weekly incidents.
Zero dumping/spilling of Baryte Slurry (instead of dumping/spilling Baryte slurry 200 times)

Before and After Photos

Preventing baboons from getting into lugger bins

Idea Originator:

Rudzane Mongoni

Idea Implementor:

Rudzane Mongoni, Daniel Mametja, Eulenda Malesa

Problem Statement:

Spares not properly stored in the workshop, not having enough spares in place and damaging spares before use.

Solution:

Engaged with the supervisor to fabricate a storage rack/shelf rack to store the spares properly in the workshop.

Value Created:

Spares are now stored properly and labelled accordingly. No more missing spares or damaged of spares before use and ordering enough spares for plant to avoid long stoppage due to short of spares.

Value Created:



Palabora Mining Company

GOES AN EXTRA MILE FOR COMMUNITIES

Palabora Mining Company is undoubtedly committed to the upliftment of its host communities.

The mining giant has a solid reputation as a supporter of the Department of Education and its 2x local circuit offices within Ba-Phalaborwa. The organization, annually, on a recurring basis throughout the year, supports local schools by purchasing hygiene packs and school uniforms for learners from impoverished households identified in the Namakgale and Lulekani circuits respectively.

School uniforms can be costly and in some dire instances families are forced to prioritize food over school necessities and hygiene upkeep. As a result, those learners arrive at school not presentable, hungry, and without the correct school uniform.

PMC is a responsible corporate citizen of Ba-Phalaborwa and often extends its hand to mitigate such problems - ensuring that at school, learners feel safe, happy, supported, equal and that the classroom remains a conducive environment for learning.

This year, PMC went an extra mile beyond its planned social activities for schools. The organization supported a school uniform donation program initiated by the Ba-Phalaborwa Community Forum (BCF) by purchasing

school uniforms and dignity packs for 91 local learners from impoverished households.

Emulating the desirable good work and impact, contracting companies

voluntarily step up and partner with PMC. To-date, Leoka Engineering, Laelo Construction and Vexovax have extended our learner recipient list by also procuring school uniforms in

support of PMC helping more schools.

Shine on to our contractors - **PMC IS PROUD OF YOU!** May your actions cause a ripple effect drawing in more partners to participate.



FROM THE EDITORS DESK

Blessed Easter Weekend to all the Palabora Copper teams. A solemn call upon colleagues to be vigilant over the long weekend and enjoy time off with families. For those who will keep the "mill turning" continue to work safely.

Remember: Do NOT drink and drive!



9 June 2024

Comrades Marathon 2024

Get to know our runners - PMC Athletics Team

Name and Surname:

Elvis Mkhabele

Role at PMC:

I am a sectional surveyor at Mining Technical Department.

Who is your running icon:

My icon is Eliud Kipchoge, I admire his resilience and dedication when running.

What inspires you to run:

I love running because:

- It offers me an opportunity to embrace discipline and form connections with people from diverse backgrounds and locations.
- Running has a way of bringing people together and creating lasting memories.

What do you love most about being a member of PMC Athletics club:

I love the support and encouragement I get from the club, and the support we give to new members.

Preparation routine for the 2024 Comrades Marathon:

Monday: Hill training

Tuesday: Aerobics training

Wednesday: Speed training

Thursday: Long run

Friday: Rest

Saturday: Endurance Run - Not less than 3 hours

Special diets:

I have adopted a low-fat diet - Fish, Chicken, Veggies.

How many races have you completed this year:

Mzansi- 21km

CDM- 42km

What are you most looking forward to about the 2024 Comrades race:

This will be my first Comrades run and I am planning to JUST enjoy it and to experience the vibe and all that will come with it.

