

AfriSam

Indaba

ISSUE 5 | 2024

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90
YEARS

CREATING CONC

AfriSam builds enhanced learning facilities for Ningizimu Special School in Durban

AfriSam has completed a project to enhance the learning environment at Ningizimu Special School in Durban. The initiative involved the construction of three new classrooms and the renovation of the school's ablution facilities. The upgraded facilities will greatly benefit the Grade R to Grade 6 learners with special education needs who attend the school.

Ningizimu Special School is dedicated to providing quality education and support to learners with special needs. The school plays a crucial role in the community, ensuring that every child has access to inclusive education and the opportunity to reach their full potential.

Recognising the importance of this institution, AfriSam took on the responsibility of improving the school's infrastructure to create a conducive learning environment.

The construction of the three new classrooms allows the school to accommodate more learners with special needs and for these learners to have more room to engage in interactive and collaborative learning activities.

In addition to the new classrooms, AfriSam also renovated the ablution facilities at Ningizimu Special School. The upgraded facilities now provide a clean and hygienic environment for the learners. This improvement is essential for the students' well-being and ensures that they have access to proper sanitation facilities throughout the school day.

Speaking about the project, Senzi Mabaso, Community Development Professional for AfriSam, said, "We are proud to have been able to contribute to the



development of Ningizimu Special School. Education is a fundamental right, and every child deserves a safe and inclusive learning environment. By building the new classrooms and renovating the ablution facilities, we hope to empower the learners and enable them to thrive academically."

The completion of this project is a testament to AfriSam's commitment to corporate social responsibility and its dedication to making a positive impact in the communities where it operates. The company believes that investing in education is crucial for the sustainable development of society and the empowerment of future generations.

Ningizimu Special School expressed its gratitude to AfriSam for its generous support. The upgraded facilities will undoubtedly have a lasting impact on the learners, enabling them to receive a quality education in an environment that fosters growth and inclusivity.

CRETE FUTURES



NEW LIMESTONE QUARRY UNDER DEVELOPMENT

NEW RESOURCE AfriSam's Ulco cement factory is located in South Africa's Northern Cape province and has a production capacity of 4 000 tonnes of clinker a day.

As the important mineral component of its cement, limestone will soon be mined from a new deposit by aggregates and construction materials company AfriSam's Ulco cement plant, in the Northern Cape.

The relocated quarry will be capable of providing security of supply for about 40 years, and will need to deliver about two-million tonnes of limestone to Ulco each year.

"Mining is expected to begin in the second half of 2024, with an unusual topography in which the quarry will be mined into an escarpment," says AfriSam Cementitious Executive, Hannes Meyer.

As a result of the topography, he says transportation of mined material will be mainly downhill. "With the gradient of the haul road slopes limited to 5°, AfriSam's truck-trailer combinations have been designed to be much more energy efficient than conventional off-road dump trucks."

AfriSam Saldanha and Strategic Projects Manager, Gavin Venter, adds that the enabling infrastructure for this quarry has been significant.

"After conducting several wide-spaced prospecting campaigns, as well as close-spaced drilling across 100 ha, we identified the best limestone reserves on our mining right on the opposite side of the R31 national road, which runs between the new site and the plant," says Venter.

"This means it is necessary to construct tunnels under the road to facilitate safe access between the new quarry site and the existing plant. Adding to the complexity is that the large Gamagara water pipeline runs parallel to the road," he adds.

The R31 road between Kimberley and Postmasburg carries high volumes of large ore trucks and abnormal-load mining equipment.

The road will be diverted in early 2024 to accommodate this traffic for about six months while extensive excavation and civil engineering work is undertaken to construct the tunnel underpass system.

"In compliance with the road authority's requirements, the tunnels will traverse the full 32 m width of the road reserve to allow for future road widening, in addition to the pipeline servitude," adds Venter.

The two tunnels will be over 50-m-long, and will be separated to enhance safety as there will be counterflow traffic to and from the plant.

The 5-m- by 5-m-wide tunnels will be excavated to 12 m below the R31 road level, and constructed as large culverts with steel reinforced in-situ cast concrete.

The design work ensured a tunnel alignment to suit the future possibility of an in-pit crusher and conveyor belt. If such an option was financially justified in future, AfriSam notes that it would provide an alternative method to feed crushed material to the existing pre-blending stockpiles.



The civil work also has to accommodate the 700-mm-diameter Gamagara pipeline, supplying the Northern Cape with water from the Vaal River. To avoid the risk of disrupting this water supply, a concrete bridge has been constructed parallel to the existing pipeline, inside which a new 100-m stretch of pipeline was laid.

"This provided the necessary support for the pipeline so that excavation and controlled blasting can be conducted underneath," explains Venter, adding that, as a further precaution, there is also a 100-mm-a-second vibration limit applied to any blasting activity around the pipeline bridge.

Work on the pipe bridge started in late 2022 and excavation work started in the third quarter of 2023, creating the initial slot on the south side of the R31.

The supply of readymix, which will include AfriSam cement, will come from Kimberley, about 80 km south. With ambient daytime temperatures that can rise to 40 °C, this will require careful use of admixtures to achieve the required slump by the time readymix trucks arrive onsite.

Meanwhile, AfriSam commissioned various specialist studies as part of its environmental impact assessment, to investigate the new quarry's potential effects on wetlands, terrestrial life, hydrology, heritage and traffic.

The company reports that authorisation was granted to mine in the vicinity of water features on the proposed mining area, with a seasonal drainage line that had to be diverted to avoid the exit slot of the new haul road.

ENHANCING ROAD DURABILITY WITH AFRISAM ROADSTAB CEMENT

AfriSam Roadstab Cement is a specialised, high quality composite cement engineered specifically for road stabilisation tasks. This cement is designed to optimise the properties of soils used in road construction, notably by reducing their plasticity and enhancing their strength and stability.

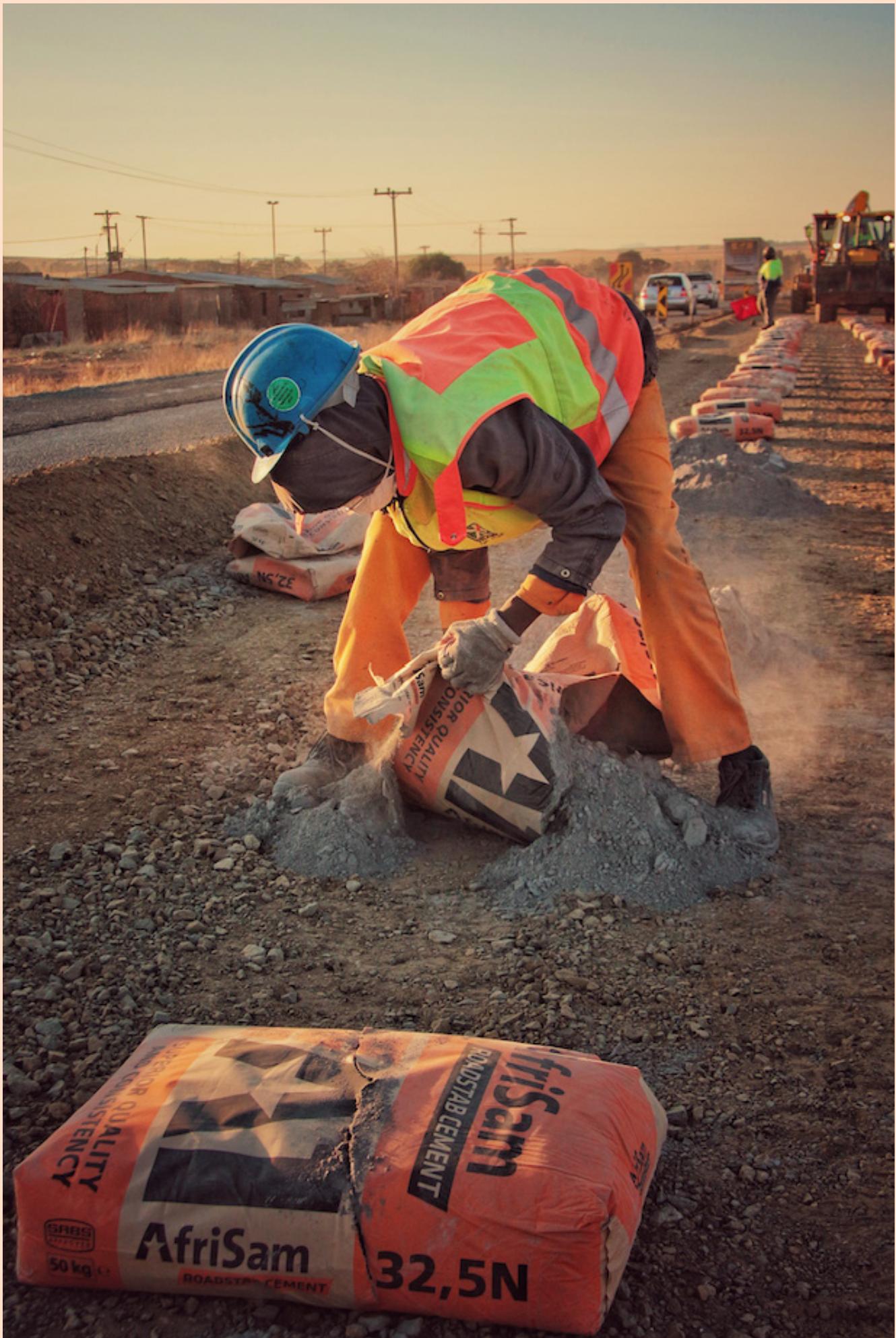
The formulation of AfriSam Roadstab Cement aims to address the vital requirements of road construction projects by ensuring the durability and stability of road bases. The unique composition contributes to its efficacy, particularly in working with challenging soil types like clay. This addition not only improves the workability of the cement in various soil conditions but also facilitates easier handling and application during the construction process.

Stabilisation using cement also improves the properties of granular materials. When cementitious material is mixed with granular material in predetermined portions and is adequately mixed, compacted and cured, a bound material with significant strength is the result.

An important advantage of AfriSam Roadstab Cement is its extended open working times as it provides ample time for the proper placement and compaction of materials. This type of flexibility in the construction timeline is crucial for achieving optimal results in soil stabilisation, ensuring that the stabilised layers meet the required standards for strength and durability.

Tailored to meet the demanding needs of road stabilisation, AfriSam Roadstab Cement offers superior performance across a wide spectrum of road material types. Its consistent quality and ability to reduce soil plasticity make it an essential component for constructing durable and stable roads.

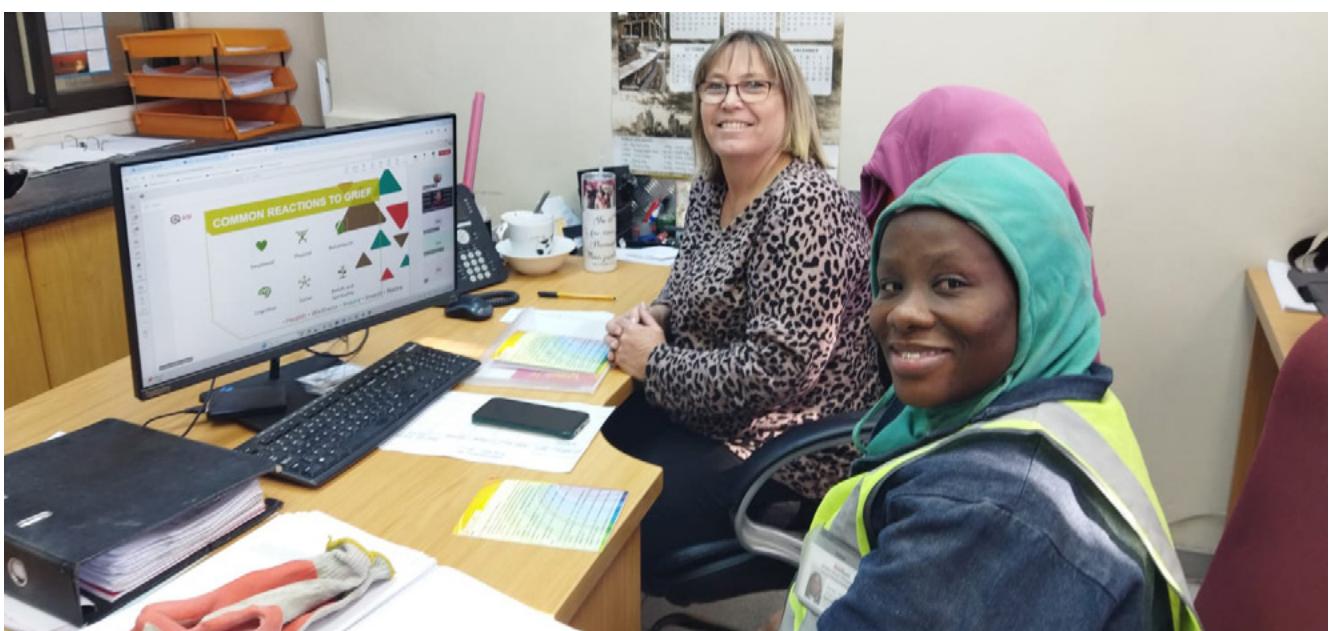
By enhancing the strength and stability of road bases, AfriSam Roadstab Cement plays a critical role in the longevity and reliability of road infrastructure.



DUDFIELD LADIES PRIORITISE WELLNESS.

At AfriSam, we value the health and well-being of our employees. It's for this reason that as part of their Women in Mining campaign, Dudfield ladies were especially encouraged to prioritise wellness and well-being by participating in the Wellness Wednesday Talk on Dealing with Grief and Loss presented by ASI. Well done Dudfield!







**HAPPY
MOTHER'S DAY**

SUNDAY, 12 MAY 2024



ASI WELLNESS SOLUTIONS



ASI Wellness Solutions provides psychosocial wellness support to you and your immediate family to help you cope with your day to day life stresses.

Service to you

1. CONFIDENTIAL Counselling, 24/7/365
2. Specialised counselling including:-
 - Face to face counselling
 - Couple counselling
 - Pre-retirement Counselling
 - Career counselling and coaching
 - Trauma and traumatic events
 - Suicide of a loved one
 - Death and bereavement
 - Rape
 - Domestic violence
3. Counselling and support for your family
4. Legal advice
5. Financial advice

We help you deal with

- Financial Stresses
- Family Problems
- Trauma
- Post diagnosis counselling
- Work Related problems
- Conflict
- Legal problems
- Depression and stress

Education

powered by:

DNA
 wellness

We keep you up to date on emotional issues and guidance on how to cope with these issues, in the monthly Newsletter. There is also specialized information on many issues that we need to cope with every day.

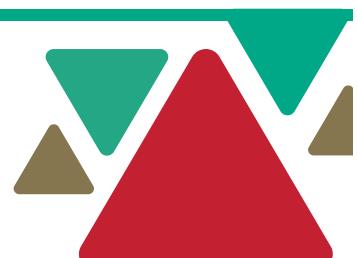
or sms a "please call me" to

071 681 1247

USSD:*120*663*2257*1#

Toll free helpline:

0807 488 855



Would you like ASI Wellness Solutions to contact you for one or more of the following issues? (Please tick applicable)

Health related issues

Financial stresses

Work related problems

Financial stresses

Marital problems

Stress

Addiction / Alcohol / Substance abuse

Other (Specify) _____

Name and Surname: _____

Contact Number: _____

Best time to contact you: _____



CELEBRATE INTERNATIONAL DAY OF FAMILIES

WEDNESDAY, 15 MAY 2024

DON'T SUPPORT IT, REPORT IT.

WORKING TOGETHER, HONESTLY AND ETHICALLY

AfriSam's code of ethics is built on the pillars of integrity, respect, responsibility, customer centricity, diversity and environmental conscientiousness. This code of ethics and business conduct applies to all stakeholders— internal and external.

AfriSam and its employees are fully compliant with any laws and regulations that govern our business. Employees are not allowed to reveal any customer-related information to external parties.

WITH HONESTY AND ETHICS, AFRISAM AND ITS EMPLOYEES WILL CREATE CONCRETE POSSIBILITIES.

PROMOTE HONESTY AND ETHICS IN AFRISAM THROUGH THE FOLLOWING CHANNELS – ANY TIME, ANONYMOUSLY AND FREE.

PROMOTE HONESTY
AND ETHICS IN AFRISAM.
ANONYMOUS, NO CHARGE,
24 HOURS A DAY, 365 DAYS
A YEAR.

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Deloitte.

Creating Concrete Possibilities



AfriSam ←
SUSTAINABILITY
→ FIRST



CEMENTING A LOW-CARBON FUTURE FOR ALL.

THAT'S SUSTAINABILITY, FIRST.