



WACEL
Enterprises Ltd

COMPANY PROFILE | 2026

ENGINEERING RELIABILITY. DELIVERED.

Maintenance, repair and overhauling, electrical and instrumentation, automatic fire protection, and industrial solutions for Zambia's mining sector.

SINCE 2001

Zambian privately owned

ZERO HARM

Safety-led site delivery

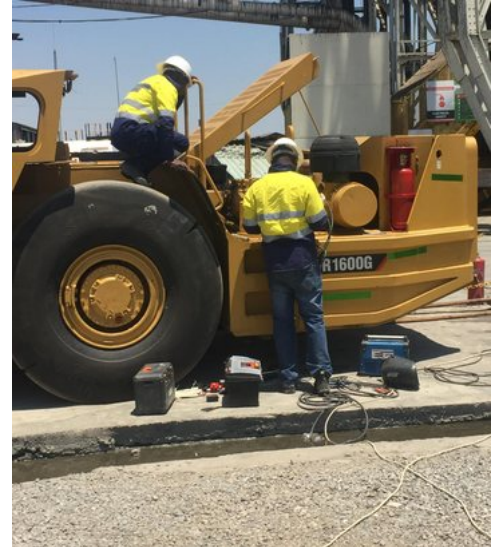
FIELD PROVEN

Mining and industrial work

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Built for demanding operations

Wacel Enterprises Limited is a Zambian privately owned engineering and industrial services company established in 2001. We combine technical knowledge, responsive project delivery and strategic OEM relationships to help clients improve safety, reliability and asset life.



25+ YEARS

Operating since 2001

ZAMBIAN

Privately owned company

OEM

Authorised principal network

HSE

Zero-harm commitment

Mission

To procure projects at competitive pricing, provide safe working conditions, and deliver quality work within a reasonable timeframe.

Vision

To be the preferred and trusted resource for products and services that enhance our clients' businesses – delivering beyond expectations.

How we work

- Collaborative, flexible project execution
- Responsive field and technical support
- International standards and best practices
- Project supervision and lifecycle maintenance
- Practical solutions focused on long-term value

Capability across the asset lifecycle

From sourcing and supply to installation, commissioning, maintenance and refurbishment.



MRO & Electrical

Maintenance systems, electrical and instrumentation support.



Fire Protection

Automatic detection, suppression, monitoring and integration.



Dust Control

Dust suppression supply, installation and maintenance.



Cathode Repair

Plate straightening, hanger bars and surface preparation.



Mining Safety

PDS, collision warning, gas detection and self-rescue.



Industrial Products

Insulator blocks, metal detectors, lighting and charging.

MRO, electrical & instrumentation

Extending asset life through disciplined maintenance systems, field support and project execution.



SERVICE | MAINTAIN | UPGRADE | REPLACE

Complete project and maintenance support

Every installed electrical, mechanical or structural system deteriorates over time. Wacel applies maintenance practices aligned with equipment, legislative and operational requirements to improve performance longevity and return on investment.

Reliability is designed into delivery

Our focus is not only to restore operation, but to support safer maintenance, predictable performance and a longer useful life for supplied and installed assets.

Delivery scope

- Electrical and instrumentation maintenance
- Asset inspection and fault response
- Project management and site supervision
- Global sourcing and technical support
- Maintenance processes and procedures

Protection engineered for risk

Safe, cost-effective fire solutions for demanding mining and industrial environments.

- Detection
- Suppression
- Monitoring
- SCADA integration

Fire Marshal and universal control capability

Configurable controllers can support fire detection, suppression and environmental monitoring. Systems can interface with underground communications and existing SCADA environments using industry-standard protocols.

Technical integration

- Modbus TCP/IP and Modbus RTU
- Ethernet and RS-485 options
- Analog and digital sensor inputs
- Local audible and visual alarms
- Environmental sensor deployment

Applications

- Mobile mining equipment and locomotives
- Winder houses, refuelling bays and pump rooms
- MCC and MV substations
- Conveyors, storage and underground installations

Fire systems in the field

Selected equipment, control and installation work documented across mobile and fixed mining applications.



CONTROL



SUPPRESSION BANK



COMMISSIONING



MOBILE EQUIPMENT

Mopani & Redpath Rig Resources

Automatic fire detection and suppression work for Trident Locomotive T43 at 4440 Level, GM05 at 5270 Level, a CAT 1600G and Sandvik dump trucks.



FIXED INSTALLATIONS

Mopani operating sites

Documented locations include SOB Winder House, 1340ml Toroshop refuelling bay, Smelter Casting HFO Pump Room, Smelter MCC and MV Substation, Mufulira Concentrator, Sync North 3360 refuelling bay and oil storage.

Connected safety solutions

Products and systems that support visibility, situational awareness and emergency readiness.



01 Dust suppression

Supply, installation and maintenance for safer, cleaner work areas.



02 Gas detection & SCSR

Portable detection and self-contained self-rescue equipment.



03 PDS & collision warning

Proximity detection support for safer mobile-equipment interaction.



04 Lighting & lamprooms

Cap lamps, charging racks, audits and equipment control.

Lighting built for harsh conditions

Cap lamps and portable lighting designed for long shifts, demanding environments and integration with safety systems.



MINERS' CAP LAMPS | LONG RUNTIME | PDS-READY OPTIONS

UP TO 26 HRS

Main LED operation

7,800 mAh

Rechargeable battery

IP68

Water and dust protection

50 J

Impact-resistant design

TJL Solutions cap lamps support NFC and PDS tags, with audible vibration alarms and visual LED alert options for integration with proximity-detection providers. Product information documents a 50,000-hour LED life, 6–9 hour recharge time and more than 1,000 charge cycles under normal operating conditions.



Loco lamp

>35,000 lux at 1 m; Main / Low / SOS



Flood light

>15,000 lux; over 150 lm/W



Tactical torch

>400 lux at 3 m; Main / Auxiliary

Cathode plate refurbishment

Recovering serviceable plates through controlled repair, straightening and component replacement.



SURFACE PREPARATION



STRAIGHTENING & RECOVERY

Minor and major refurbishment scope

Wacel has carried out cathode plate refurbishment work for Mopani Copper Mines, including replacement of copper-clad stainless hanger bars and manual plate repair to recover acceptable verticality and stiffness.

Refurbishment process

- Edge-strip removal
- Surface preparation
- Plate straightening
- Hanger-bar replacement
- Verticality checks



Protection and process efficiency



CSI PMC insulator blocks

Acid-resistant spacer and capping blocks tailored for electrode seating and spacing in electro-winning cells.

- Accurate electrode spacing
- Reduced risk of shorting
- Lower power loss across the circuit
- Efficient placement and harvesting
- Copper, nickel, zinc, cobalt and manganese applications



SMART-100 metal detection

A tramp metal detection system designed for demanding conveyor applications and difficult ore conditions.

- Detects magnetic and non-magnetic metals
- Ignores highly conductive or magnetic material
- Compatible with steel-corded belts
- Supports belts using steel splice clips
- Electronics/control unit and antenna search frame
- Marking-device and clip-detector options

Field-proven delivery

Examples documented in Wacel's project history across mining equipment, fixed installations and mineral processing.

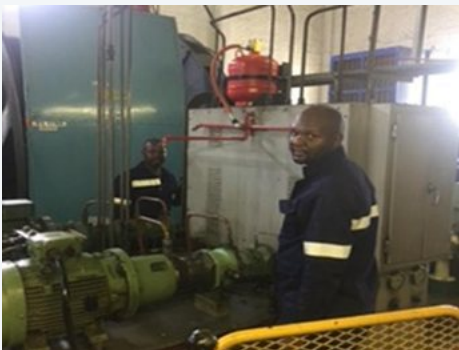


01

Mobile equipment fire protection

MOPANI / REDPATH RIG RESOURCES

Systems installed on Trident T43 at 4440 Level, GM05 at 5270 Level, a CAT 1600G and Sandvik dump trucks.



02

Fixed fire detection & suppression

MOPANI COPPER MINES

SOB Winder House, refuelling bays, HFO Pump Room, MCC/MV Substation, concentrator and oil storage.



03

Cathode plate refurbishment

MOPANI COPPER MINES

Hanger-bar replacement, straightening, surface preparation and vertical checks.



04

Insulator blocks

KCM SMELTER CO LIMITED

Supply and installation support for electro-winning cell spacing and efficiency.

Zero harm is the objective

Safety is built into supervision, training, reporting and daily site practice.

01

Supervision

Ongoing field oversight and continuous workforce training.

02

Reporting

Incident reporting and investigation to improve controls.

03

Toolbox talks

Daily site safety meetings that keep risk visible.

A safe workplace for everyone

Wacel personnel are trained in proper techniques and recognised industrial standards. Our commitment extends to employees, clients, contractors and everyone who visits our work sites.

Environmental excellence

We recognise that care for the environment is vital and support the principles of environmental excellence and sustainable development.

Local delivery. Global capability.

Strategic principals and long-standing client experience strengthen Wacel's technical and sourcing reach.

Authorised principal network



ELIO ELECTRO TECH

Authorised principal

Selected client experience



Wacel has delivered components and field services directly and as a subcontractor to leading Zambian mining, metals and energy operations. Logo placement reflects documented experience and does not imply endorsement.



WACEL
Enterprises Ltd

CONSISTENCY & BEYOND

LET'S IMPROVE YOUR OPERATION.

Talk to Wacel about maintenance support, project requirements, fire protection, industrial products or a site assessment.

Wacel Enterprises Limited

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Engineering reliability. Delivered safely.