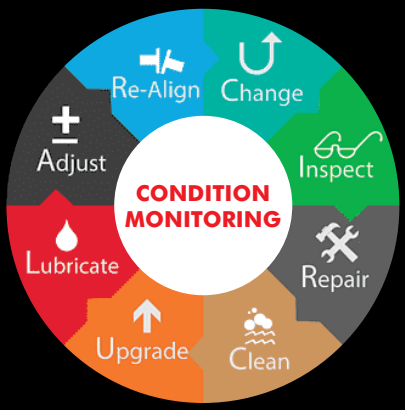
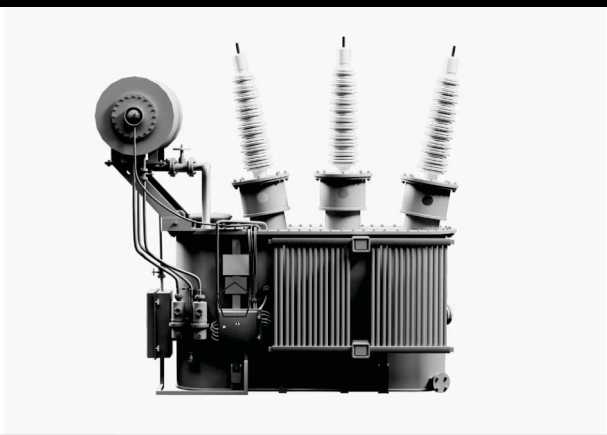
UNCUT

ELECTRO-MECHANICAL ENGINEERING (PTY)LTD

COMPANY PROFILE





MANUFACTURE • SALES • REPAIR • SERVICE

GAUTENG BRANCH

30 Van Eck Street
Chamdor
Krugersdorp
1754
uncut.elecand_mecheng@yahoo.com

MANAGING DIRECTOR

Siphokazi Ngubo
072 343 7425

SALES ENGINEER

Zeph Shezi
079 505 9510

EXCEEDING CUSTOMER EXPECTATION

UNCUT ELECTROMECHANICAL ENGINEERING (PTY) LTD provides services in Condition Monitoring (Infrared Thermography, Failure Analysis, Vibration Analysis, Machinery Lubrication, On-Site Balancing and Shaft Alignment. AC&DC motor rewind, Pump repairs, Generators (Manufacturing, Sales, Repairs and Maintenance), Transformers and Switchgears (Manufacturing, Sales, Repairs and Maintenance).

Uncut Electromechanical Engineering is a 100% black woman owned Company. The company was founded to build a knowledge and skills base that will see Black and White South Africans especially youth acquiring the means of production in Engineering and Technical field. Uncut Electromechanical Engineering (Pty)Ltd offers top of the art service delivery in both private and public sector in entire African continent.

In August 2016 Miss Siphokazi Ngubo who is the Managing Director founded the company on principles of Broad Based Black Economic Empowerment and espouses to take advantage of opportunities that exist for Black Women Complaint companies in Condition Monitoring, AC&DC electric motor rewind, Generators, Transformers, and Gearboxes.
Siphokazi holds a degree in Strategic Logistics Management and a diploma in Business Management and has experience from both public and private sector.

The company employed Sikhosiphi Shezi in June 2026 who holds a Trade Test in Electromechanical Engineering, Diploma in Operations Management, a Competency Certificate in ORHVS, Competency certificate in Condition Monitoring, Competency Asset Reliability Practitioner certificate, Competency Oil Analysis certificate, Competency Mobius Vibration Analysis certificate, Competency Failure Analysis certificate, Competency Infrared Thermography certificate, Competency Shaft Alignment certificate, Competency Electrical Motor Diagnostics certificate. Sikhosiphi Shezi has experience from both public and private sector

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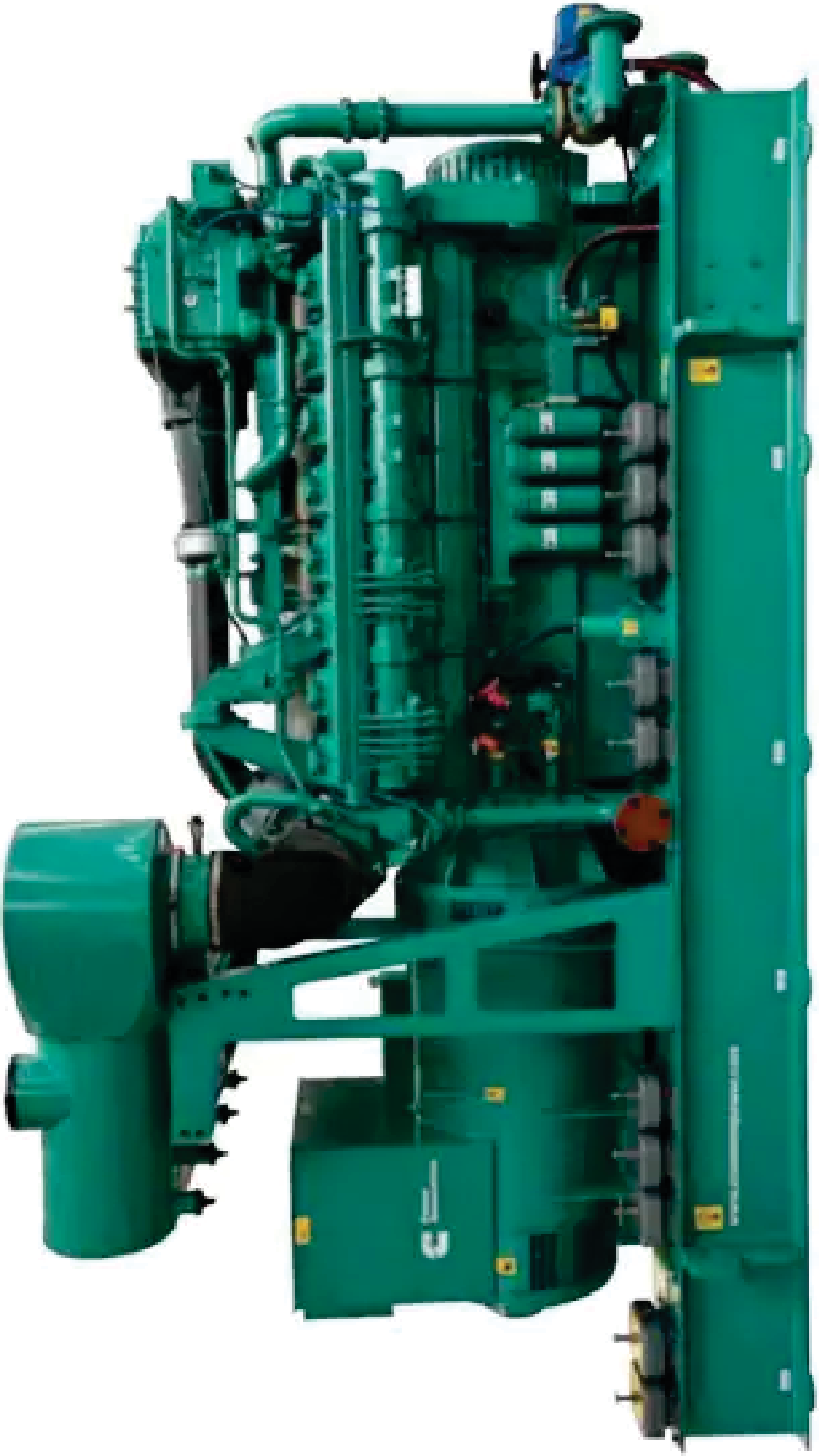

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BLACK ECONOMIC EMPOWERMENT

Through its BEE Policy, Uncut Electromechanical Engineering intends to empower the historically disadvantaged South Africans with information and knowledge which is key in quality service delivery. The organizational and management structure of Uncut Electromechanical Engineering favors the principle of knowledge and skill transfer to ensure quality service delivery in condition monitoring, AC&DC electric motor rewind, Generators, Transformers, Switchgears and Gearboxes.

Uncut Electromechanical Engineering have the following enshrined principle:

- A management structure that nurtures and promotes blacks into areas of technical management
- Unlocking the potential in condition monitoring, electric motors, generators, transformers, switchgears and gearboxes.
- Compliance with the Employment Equity Act (Inc. amendments 2010)
- Technical training for young black female and male South Africans to further sustainable ability in areas of quality service delivery for forthcoming generations.
- Uncut Electromechanical Engineering provides funding for in-house skills and human capital development
- Uncut Electromechanical Engineering is a 100% BWO company
- Labour Relations Act

CORPORATE SOCIAL RESPONSIBILITY

Uncut Electromechanical Engineering has a clearly defined Corporate Social Responsibility which seeks to give back to the local community. In approach, Uncut Electromechanical Engineering seek to identify talent, utilize and reward it. In doing so Uncut Electromechanical Engineering gives young South Africans (both black and white) opportunities to work and gain experience which can be used for future reference and is essential for both a practical and technical experience. After delivering the services, Uncut Electromechanical Engineering offers young South African a package. We feel we give our communities hope for a brighter future.

PRODUCTS AND SERVICES

All processes at Uncut Electromechanical Engineering are carried out by experienced artisans, technicians and engineers.

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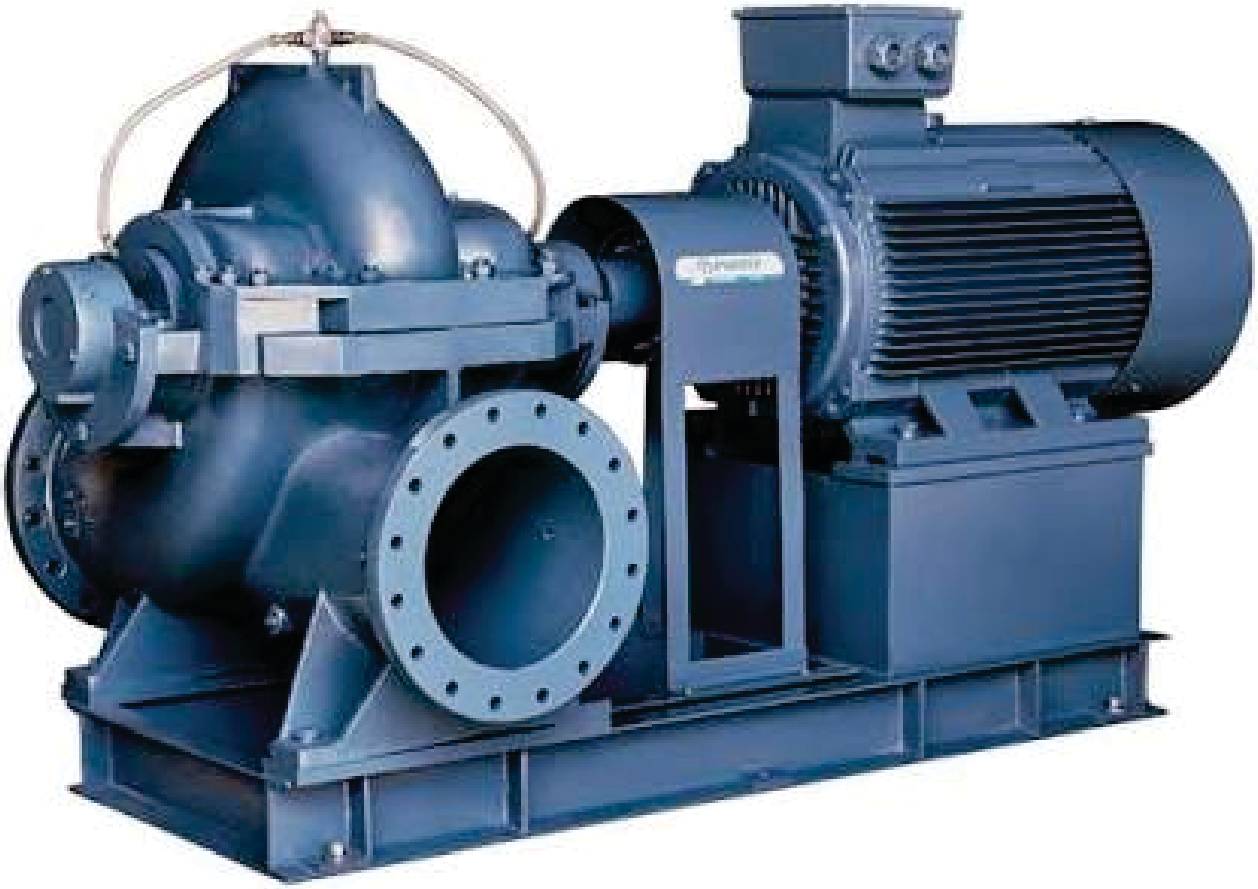

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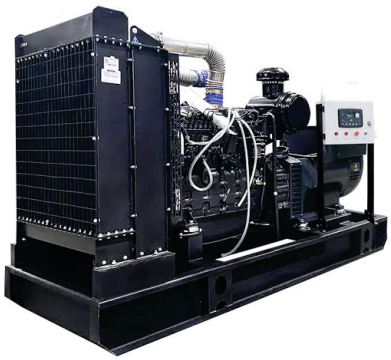
WE OFFER THE FOLLOWING SERVICES UNDER CONDITION MONITORING

- Oil Analysis
- Condition Monitoring
- Shaft Alignment
- Infrared Thermography
- Failure Analysis
- Vibration Analysis
- Machinery Lubrication



500kVA Diesel Generator 380V Open-Type

WE PERFORM THE FOLLOWING ELECTRIC MOTOR TESTS

- Dimensional Examination of Rotor, Shaft, End-shield, Bearing Housings
- Core Testing of Stator
- Megger Testing
- High Voltage Withstand Test
- Growler Testing of Rotor
- Pre-Varnish Testing
- Dynamic Balancing of Rotor
- Testing of AC Motor Lock Rotor Test
- No-Load Testing
- Measurement of Vibration
- Testing of Noise

DIESEL GENERATOR DG175/140 140KW WITHOUT CANOPY

WE PERFORM THE FOLLOWING GENERATOR TESTS

- Visual & Mechanical Inspection: Check for leaks, damaged air filters, battery health, and loose connections before running the unit
- Load Bank Testing: Verifies the generator handles its rated capacity. It checks output parameters such as voltage, frequency (Hz), and current under a controlled load.
- Insulation Resistance Test: Confirms the continuity and uniformity of copper windings in the stator and rotor
- Advanced Diagnostics: Includes partial discharge analysis, step voltage testing, and dielectric discharge testing to spot early degradation in the insulation.

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WE PERFORM THE FOLLOWING TRANSFORMER TESTS

- Winding resistance test: Measures the DC resistance to detect loose connections, poor brazing, or manufacturing defects.
- Transformer Turn Ratio (TTR) Test: Confirms the primary to secondary voltage ratio matches design specifications.
- Insulation Resistance (Megger) Test: Use high-voltage DC to verify the dryness and structural integrity of the insulation system.
- Dielectric Strength Test: Ensures the insulation can withstand sudden over voltages caused by lightning and switching
- No-Load Loss and Loa Loss Tests: Measure core and conductor losses to guarantee the transformers meets energy efficiency and thermal design requirements.

WE PERFORM THE FOLLOWING SWITCHGEARS TESTS

1. Resistance and Dielectric Tests

- Insulation Resistance (Megger) Test: Measure the resistance of insulating materials to detect moisture, dirt, or degradation.
- High-Potential (Hi-Pot) Test: Applies a voltage higher that the rated operating voltage for 6o seconds to verify the dielectric strength of the busbars and components.
- Power Factor/Tan-Delta Test: Evaluates to dielectric quality of insulation by measuring energy loss.

2. Contact and Circuit Resistance

- Contact (Ductor) Resistance Test: Measures the resistance across closed contacts to enure they are secure and free from oxidation or pitting.
- Continuity Test: Checks the integrity of protective earthing and wiring circuits.

3. Operational and Mechanical Checks

- Mechanical Interlock Verification: Confirms that electrical and mechanical interlocks function in the correct sequence to prevent hazardous operating errors.
- Timing Test: Measure the opening, closing, and total clearing times of circuit breakers.
- Trip and Close Coil Test: Checks the functionality of the coils responsible for opening and closing the breaker.

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FIELD SERVICES

Field service encompass any work conducted away from a company's facilities at a customer's location. This includes tasks like installing, maintaining, or repairing equipment, hardware, and systems across industries such as industrial engineering.

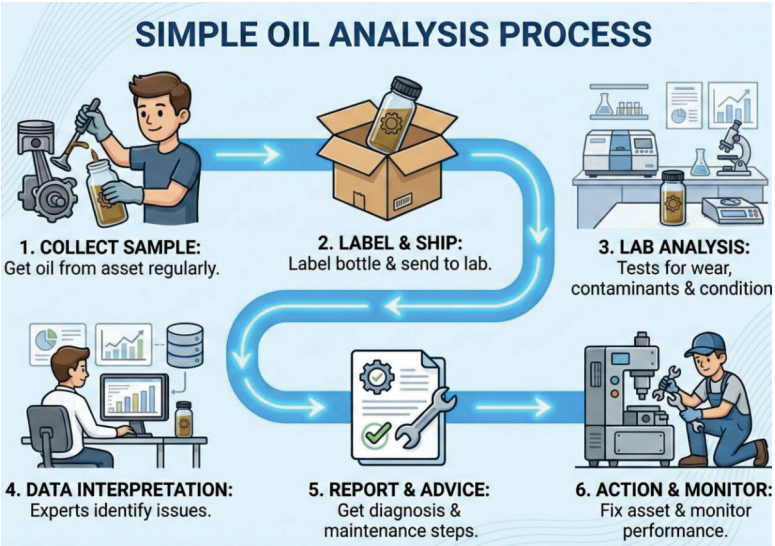
CONDITION MONITORING FORMS PART OF FIELD SERVICES

Condition monitoring is the process of monitoring a parameter of condition in machinery, in order to identify a significant change which is indicative of a developing fault. It is a major predictive maintenance. Condition Monitoring detects early signs of wear or anomalies, allowing maintenance teams to intervene before a critical failure occurs, thereby minimizing unplanned downtime and maximizing asset lifespan. The following form part

- Vibration Analysis
- Infrared Thermography
- Oil Analysis
- Electric Motor Diagnostic
- Shaft Alignment
- On-Site Balancing
- Vibration Analysis
- Acoustic Monitoring
- Alignment systems
- Etc

On-Site Balancing

Infrared Thermography



Oil Analysis

AC&DC REWINDING

UNCUT ELECTROMECHANICAL ENGINEERING appreciates the fact that electric motor, Generators, Transformers and switchgears are critical part of the Mines, Municipality, private and individual usage.

Condition monitoring plays a critical role in preventing downtime that can cause serious disruption in time lines, reducing productivity and throw schedule into disarray. With so much at stake, Uncut Electromechanical Engineering condition monitoring services are top quality services coupled with outstanding customer service. That is why when it comes to condition monitoring Uncut Electromechanical Engineering is at the forefront.

Every aspect of our repairs, from electric motors, generators, transformers, switchgears and gearboxes are performed against International Standards. We perform all our services according to ISO 9001:2015.

WE DO REPAIRS OF THE FOLLOWING MACHINES

AC ELECTRIC MOTORS

- Induction Motors
- Winch Motors
- Vibration Motors
- Brake Motors
- Ventilation Fan Motors

GENERATORS AND THEIR SIZES

- Standby Generators (15KVA – 2500KVA)

TRANSFORMERS AND THEIR SIZES

- Distribution Transformers (15KVA-40MVA)
- Power Transformers (15KVA-40MVA)

SWITCHGEARS

- Low-Voltage (LV) Switchgear (up to 1KV)
- Medium Voltage (MV) (up to 36KV)
- High Voltage Switchgear (HV) (up of 36KV or more)

SUBSTATIONS

- Step-Up Substation
- Step-Down Substation
- Secondary Substation

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Power Transformers (15KVA-40MVA)

MV Motor

- Distribution Substation
- System Substation
- Underground Power Distribution Substation

PURPOSE OF THE PROFILE

UNCUT ELECTROMECHANICAL ENGINEERING is committed to achieving the smooth running of our client's machines and facilities. The purpose of this proposal is to highlight technical areas which can disrupt provision of clean water, and good sanitation, disruption of electricity supply to communities and operations at client's facilities.

ISO COMPLIANT

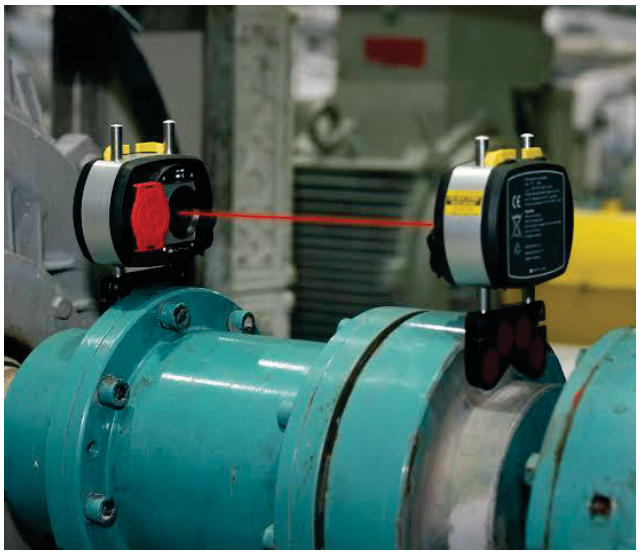
UNCUT ELECTROMECHANICAL ENGINEERING is in a process of being ISO 9001:2015 accredited though all our operations are performed to the International Standard.

ISO 9001 REQUIREMENTS FOR A QUALITY MANAGEMENT SYSTEM STIPULATES THE FOLLOWING.

A demonstrated ability to consistently provide products/services that meet customer and applicable statutory and regulatory requirements. Enhancement of customer satisfaction through the effective application of the system, including processes for continual improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements

UNCUT ELECTROMECHANICAL ENGINEERING has a mandate to fulfil the bove mentioned requirements and has embedded these principles in its Policy and day to day management doctrine .

Electric Motor Diagnostic


Shaft Alignment

TRAINING AND HUMAN CAPITAL DEVELOPMENT

Due to the shortage of trained personnel in the country which was directly caused by the previous Job Reservation Act of the old regime and the lack of understanding of technical expertise from the current governing party which resulted in them not taking good care of those scarce training facilities that were inherited from the old regime and also not building more artisan training facilities to absorb youth into training as artisans.

UNCUT ELECTROMECHANICAL ENGINEERING has been and still assisting clients in skills transfer. We provide skills transfer to our willing clients' employees while we are doing site work. Training in these areas include preventative maintenance (schedule maintenance).

TRAINING WILL FALL UNDER THE FOLLOWING THEMES:

- Generator controller programming
- Machine Lubrication
- Grand Packing adjustment and change
- Machines Installation
- Oil and Coolant checks and oil top-up
- Battery checks
- Etc

UNCUT ELECTROMECHANICAL ENGINEERING is committed to infusing knowledge and skills so that clients can address minor problems in-house

UNCUT ELECTROMCHANICAL ENGINEERING TERMS OF SERVICE

DELIVERY PERIOD

Our delivery period id between

- 1-3 Weeks from purchase order date
- 1-5 Days for breakdowns
- 25% charged for all breakdown works

PAYMENT TERMS

Payment ought to be remitted 30 days from the day the invoice is issued. Any changes that may affect payment terms should be communicated and can only be changed if agreed in writing.

WARRANTY

All our workmanship will carry a twelve months warranty from date of installation provided the machines are installed and serviced as per OEM instruction.

OUR PRICING STRICTURE

Any repairs that cost more that 70% let say of a new motor are considered to be uneconomically viable to repair according to UNCUT ELECTROMECHANICAL ENGINEERING and 99% of companies in the country. It is always advisable to buy a new machine if repairs cost more than 70% of a new machine.
A client will be advised in such cases, should the client insist on repairing the machine **UNCUT ELECTROMECHANICAL ENGINEERING** will carry out the work.

BREAKDOWN PRICE BASIS

25% breakdown amount will be charged for all work down in an emergency. The delivery period for breakdown is between 1 to 5 days from either verbal or written communication from an authorised client representative.

CALLOUT /WORKSHOP FACILITY CHARGE

Our team will be available within 1-3 hours to attend to our client's callouts and a fee is applicable per hour for all work carried out.

Other jobs do not need to be transported to our workshop but can be done on-site, at other times provision of a small workshop with a workbench and a bench-vise will be required to carry out work.

Should a client(s) feel that we are far away to meet their delivery demand, we will gladly setup a local workshop to ensure that we avail ourselves as early as possible.

PREVENTATIVE/SCHEDULE MAINTENANCE

UNCUT ELECTROMECHANICAL ENGINEERING will develop a schedule Maintenance program for all client's machines. An effective Maintenance Program should be carried out twice a month to ensure that unexpected breakdown is prevented by means of machine lubrication, alignment, vibration analysis, oil analysis etc. In this respect UNCUT ELECTROMECHANICAL ENGINEERING incorporate both proactive and reactive machine maintenance strategy for pumps and plant machine repair. In this respect, the program

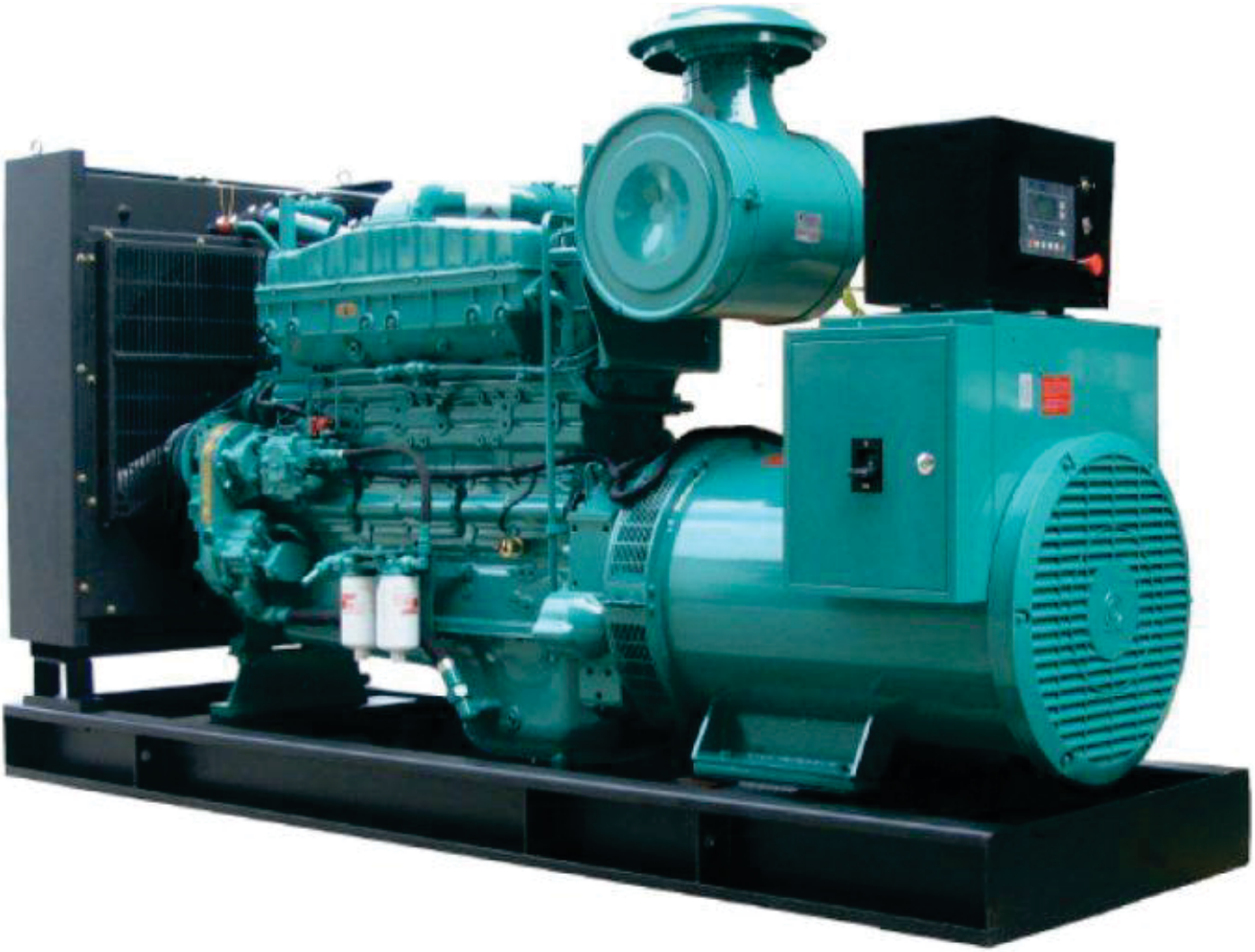
will be carried out on the first and the third week of every month.

CONCLUSION

UNCUT ELECTROMECHANICAL ENGINEERING guarantees repairs services that are satisfactory for its clients. As presented above, we offer service that is exceptional and rated against International Standards. For our clients and potential clients alike, we would like to;

Invite you to visit our workshop facility so that we can take you through all the processes of machinery repairs.

Assure you of good quality standard of work at all times and request you have faith in us as your equipment will be handles and transported with care at all times.



MANUFACTURE

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