



BCT VISION Company Profile

BCT VISION PTY (LTD)

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2025/2026

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About Company

BCT Vision (Pty) Ltd is a South African engineering solutions provider established in 2017 by Thabo Motaung and Chosen Maluleke. Based in Katlehong, Gauteng, BCT Vision delivers specialized services in machinery health monitoring, plant performance testing, emissions compliance, and flowmeter technologies.

Our multidisciplinary capabilities are geared toward power utilities, mining operations, manufacturing plants, and heavy industrial facilities across the country. Whether supporting day-to-day maintenance or tackling complex diagnostic challenges, we equip our clients with the technical insight and hands-on support required to maximize reliability, efficiency, and compliance.

From condition monitoring and reliability engineering to consulting diagnostics, flow instrumentation, and non-destructive testing, our services are designed to support planned maintenance, plant optimization, and environmental performance initiatives —making BCT Vision a trusted partner for operational excellence across small, medium, and large enterprises.



***Precision in Performance.
Excellence in Engineering.***



Vision & Mission

Our Vision

To be a company that creates opportunities for success for all those who aspire for greatness in the engineering environment.

Our Mission

To be the leading performance testing and engineering diagnostics company in South Africa—and ultimately the African continent—offering accessible, high-quality, and efficient services.

What Makes Us Outstanding

- **Client-Centric Service Culture** – We do not tolerate poor service delivery.
- **Rapid Turnaround Times** – Prompt response to quotations, inquiries, and complaints.
- **Continuous Client Engagement** – We believe in regular follow-ups to ensure satisfaction.
- **All-Sector Access** – Serving small, medium, and large enterprises with the same dedication.

Our Values

- **Integrity** – We always demonstrate the quality of being honest and morally upright.
- **Honesty** – It is an essential part of our business to build and keep our clients' trust, as trust is the key to having a successful business relationship and to achieve success.
- **Customer Satisfaction** – We treat our customers with fairness, courtesy and loyalty wherever project is been taken.
- **Excellence** – We set high performance standards for self and others.
- **Innovation** – We try different and novel ways to deal with work challenges, opportunities and organizational change.
- **Passion** – we are passionate about our company and giving our clients an unforgettable experience.



Our Team



Thabo Kgotso Motaung *Managing Director*

Thabo Motaung is a qualified mechanical engineer with over 10 years of experience in the power generation sector. He holds a BTech in Mechanical Engineering from Vaal University of Technology. Thabo has led performance testing and efficiency optimization projects at Eskom power stations, including Majuba, Grootvlei, Lethabo, and Arnot. His expertise spans condition monitoring, combustion testing, emissions analysis, and team leadership, all grounded in a strong focus on safety and quality. As co-founder and Managing Director of BCT Vision (Pty) Ltd, he provides technical leadership and strategic direction for the company's engineering services nationwide.



Hlaulani Chosen Maluleke *Technical Director*

Hlaulani Chosen Maluleke is a mechanical engineering professional with extensive experience in power plant performance testing, condition monitoring, and technical project coordination. He holds a National Diploma in Mechanical Engineering from the Vaal University of Technology and has worked across Eskom stations and private engineering firms, including Vanedi and Yellow Technical Services. His expertise includes boiler diagnostics, pulverized fuel analysis, thermographic imaging, and flue gas temperature monitoring. Known for his leadership and attention to detail, Chosen has successfully led technical teams on large-scale thermal efficiency and emissions testing projects. As the Technical Director and co-founder of BCT Vision, he brings a strong operational focus and problem-solving mindset to every client engagement.

A photograph of a nuclear power plant with large cooling towers and containment domes under a blue sky with light clouds. The image is partially obscured by a dark blue diagonal overlay at the bottom.

Our Services

At BCT Vision, we provide a wide range of engineering services tailored to support plant performance, equipment reliability, and regulatory compliance across the energy, mining, industrial, and manufacturing sectors. Our solutions include condition monitoring, reliability services, flowmeter supply and installation, performance testing, emissions monitoring, and non-destructive testing—delivered with precision, efficiency, and a strong commitment to client success.

1. Machinery Health & Condition Monitoring

- ▶
 - Maintenance Services
 - Planned Onsite Services
 - Emergency Onsite Services
 - Remote or Local Technical Support
 - Embedded Engineering Resources
 - Service Support Agreements
 - Parts Management (Client-owned or Supplied)

2. Reliability & Diagnostic Services

- ▶
 - Instrument Calibration & Validation
 - Startup & Commissioning Support
 - Site Evaluations & Walkdowns
 - Shutdown, Turnaround & Outage (STO) Planning
 - Mass Flow Calibration & Verification
 - Guided Wave Radar Verification

3. Engineering Consulting & Predictive Maintenance

- ▶ • Vibration Data Capturing & Analysis
- Infrared Thermal Imaging Scans
- Oil Sampling & Analysis
- Precision Laser Alignment
- Onsite and Workshop Balancing

4. Flowmeter Supply, Delivery & Installation

- ▶ • We supply and install a wide variety of air and liquid flow meters:
- Electromagnetic & Ultrasonic Flowmeters
- Vortex & Mechanical Water Flowmeters
- Open Channel, Venturi, Annubar & Aerofoil Flowmeters

5. Plant Performance Testing

- ▶ • We conduct targeted performance testing to improve plant efficiency and identify underperforming equipment using calibrated instruments:
- Boiler Plant Testing – Mills, fans, air heaters, combustion optimization.
- Turbine & Condenser Testing – Enthalpy drop analysis, vacuum decay, energy efficiency.
- Outside Plant Components – Cooling towers, compressors, pumps, works power optimization.
- Environmental & Misc. Tests – Emissions, make-up water, heat rate programs.

6. Mobile Continuous Emissions Monitoring (CEM) Laboratory

- ▶ • Onsite emissions testing via fully equipped mobile labs.
- Multi-point stratification & performance testing.
- Data correction modeling, reporting, and compliance assistance.

7. Non-Destructive Testing (NDT)

- ▶ • Ultrasonic Testing (UT)
- Dye Penetrant Testing (DPT)
- Magnetic Particle Testing (MPT)
- Hardness & Coating Thickness Testing
- Positive Material Identification (PMI)

Our Projects

Eskom Majuba Power Station

Description: Boiler performance monitoring.

Duration: February 2019 – June 2024

Contact: Duni Rapudi

Details: +27 17 799 3299

Eskom Arnot Power Station

Description: Air Heater air in leakage Test and Pulverized fuel sampling on coal pipes

Duration: May 2021 to May 2026

Contact: Mr. Mulaudzi Mashudu

Details: +27 13 297 9111

Eskom Medupi Power Station

Description: Performance and Testing Services

Duration: January 2021 to December 2025

Contact: Lerato Mogale

Details: +2714 762 2301

Eskom Kusile Power Station

Description: Provision of Plant Performance Activities

Duration: September 2022 to September 2027

Contact: Siyakudumisa Mpokeli

Details: 013 699 7888

Eskom Grootvlei Power Station

Description: Air heater leakage, PF, and Coal Sampling.

Duration: August 2022 to November 2022

Contact: Londiwe Portia Ndwandwe

Details: 011 800 8111



Get In Touch

We're ready to partner with you to enhance your plant performance, improve equipment reliability, and meet your operational goals. Whether you need a once-off service, ongoing support, or a full engineering solution, our team is here to help. Get in touch with us today to discuss your requirements or request a tailored quote—let's build smarter, more efficient operations together.

Contact Us :



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