



LKB ENGINEERING (PTY) LTD

CK No. 2015/442799/07

CESA Registration No. 1153

CIDB No. 7ME, 4GB, 4CE, 1EP

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CONSULTING ENGINEERING, PROJECT MANAGEMENT, CONSTRUCTION AND PLANT MAINTENANCE
(WE PROVIDE TURNKEY SOLUTIONS)

TABLE OF CONTENTS

- 1. Company Overview.....3
- 2. Mission and Vision.....4
- 3. Our Values.....5
- 4. Our Objectives.....5
- 5. Our Scope.....6
- 6. Our Market.....13
- 7. Key Personnel.....14
- 8. Reference.....16

1. Company Overview

LKB Engineering was established in 2015. It is a 100% black owned company. The company is based in South Africa. It is an engineering and project management **BEE Level 2** firm that serves industrial, institutional, governmental and commercial clients, focusing mainly on mechanical designs, electrical designs, and energy saving technology designs (**GREEN BUILDING**, we are registered with **CESA** and have a **PROFFESIONAL INDEMNITY**, supported by Electrical & Mechanical Project Quality Management Systems (E&MPQMS). All solutions undergo through various engineering stages, i.e. conceptual engineering, feasibility study, detailed engineering design, construction, project management through to commissioning and handing over. **LKB Engineering also focus on installation of Mechanical and Electrical services, Water Treatment Works and Plant Maintenance. Energy Auditing, Nuclear Energy and Contracting and we are CIDB grading 7ME, 4GB, 4CE, 1EP.**

We also offer services in which we assume full responsibility for your project needs. We bring effective and proactive management techniques to the planning, design, and construction of a project from inception to completion, including maintenance for the purpose of controlling cost, schedule, and quality expectations.

Our professionals have backgrounds from the designer, the contractor and the owner's perspective. We offer design and construction expertise that is not commonly possessed in house.

WE PROVIDE TURN KEY SOLUTION TO OUR CLIENTS

We strive to deliver to our clients' outstanding engineering and project management Services, to provide fulfilling careers and professional satisfaction for our clients and to achieve financial success so that we can reward ourselves and grow as well as ploughing back to the community. Our staff possesses strong written and oral communications skills, excellent interpersonal skills.

2. Mission and Vision

Our mission is to provide professional engineering services to the public and private sector with price as our key success factor.

3. Values

Our values are:

- i) Commitment
- ii) Confidence
- iii) Involvement and
- iv) Integrity

4. Our Objectives

- ◆ To consistently strive to perform to the best of our ability in meeting the expectations of our clients,
- ◆ To provide, maintain and sustain high quality services to clients,
- ◆ To achieve outstanding customer relations by attending punctually to clients' needs and requirements,
- ◆ To provide best-in-class systems and solutions that are subjected to continuous improvement,
- ◆ To co-operate and partner with other players within the industry with the view of sharing knowledge and experience,
- ◆ To operate with high levels of integrity in pursuit of customer satisfaction,
- ◆ To honour our social responsibility by contributing to needy, charity organisations etc, as and when the need arise.

5. Our Scope

We specialise in the following:

CONSULTING

Mechanical, electrical and electronic Engineering services for the building industry including high rise buildings, hospitals, schools, public institutions and private institutions hospital equipment and municipality facilities, Waste water treatment works, Energy Auditing

INSTALLATION, CONTRACTING AND PLANT MAINTENANCE

- General Contracting (Mechanical, Electrical and Electronics Installations)
- Plant Maintenance
- Fabrication
- Nuclear Energy Expertise

TO FULLFIL OUR MISSION WE PROVIDE THE FOLLOWING TO THE INDUSTRY

CONSULTING, INSTALLATION AND CONTRACTING (TURNKEY SOLUTIONS)

CONSULTING

5.1 MECHANICAL



- HVAC design, evaluation and installation
- Refrigeration Systems
- Medical gas systems
- Cooling tower design

- Kitchen equipment
- Control systems and automation
- Boiler installations
- Cold and hot water reticulation
- Escalators, lifts and hoists.
- Mechanical maintenance and operation of the facilities.
- Energy saving/conservative technologies for mechanical installations
- Bulk water supply systems.
- Waste water treatment plants

5.2 CONSTRUCTION AND INSTALLATION

- HVAC Systems
- Hospital Mechanics
- Maintenance of boilers
- Maintenance of production lines
- Kitchen Equipment
- Refrigeration
- HVAC, evaluation and installation
- Medical Gas
- Cooling Tower
- Control Systems and automation
- Boiler Installation
- Cold and hot water reticulation
- Escalators, lifts and hoists
- Mechanical maintenance and operation of the facilities
- Energy saving/conservative technologies for mechanical installations
- Bulk water supply systems
- Waste water treatment works

5.3 PLANT MAINTENANCE

Plant Maintenance specializes in comprehensive plant maintenance, installation and energy management for businesses that generate electricity, manufacture goods, refine oil, process natural gas, and process ethanol, and manufacture petrochemical products, mining and building services. We offer a wide range of services including

- Turbo machines
- Kitchen Equipment
- Building Mechanical, Electrical and Electronics Services
- Steam generation and distribution
- Air conditioning and process plant cooling
- Plant protection (including firefighting)
- Conveyor systems
- Process plant
- Pollution and noise reduction
- Refrigeration

5.4 ENERGY AUDITING

- Analysis of electricity and fuel consumption and self-generation.
- Critical study of operation of the following equipment.
 - Electric Motors
 - Pumps, Blowers & Fans
 - Air Compressors
 - Refrigeration & central A.C. Plants
 - Cooling Towers
 - Boilers and Steam Distribution System
 - Electrical Power System
 - Thermic Fluid Heaters

- Lighting
- Electrical & Oil fired furnaces.
- Electrical measurements namely, voltage, current, power factor and power input of all important load
- Measurement of Mechanical parameters of pumps, fans and blowers to the extent practically possible.
- Air Compressor capacity tests and air leakage tests, Sp. Energy Consumption Analysis.
- Measurement of chiller/air-conditioning operation parameters, water/brine/air flow estimation, compressor power, sp. Power consumption in kW per TR.
- Measurement of illumination and lighting power.
- Study of variation and improvement in Maximum Demands, Power factor & Load Factor.
- MEASUREMENT of Boiler / Thermic fluid Heaters’
 - Combustion Efficiency,
 - Excess AIR control,
 - CO Measurement,
 - Oxygen Measurement etc.
- Technical up gradation to SAVE ENERGY
- ELECTRICAL Distribution losses.
- All Types of Spinning Machines

We also specialise in installation of mechanical and electrical services for the building industry including high rise buildings, hospitals, schools, public institutions and private institutions hospital equipment and municipality facilities. To fulfil our mission we provide the following to the industry:

We manage the scope and schedule the entire design process, including:

5.5 ELECTRICAL



- Solar plants.
- Solar transmission and distribution system into existing grids.
- Solar plants control and protection system
- Solar plants maintenance and operation of the facilities.
- UPS and standby generators
- Electrical design of building/infrastructure services.
- Energy saving/conservative technologies for electrical installations.
- Lighting and small power systems, and associated equipment.

- DC and emergency systems design.
- LV switchgear designs.
- MV switchgear designs.
- DC switchgear designs.
- Earthing designs to IEEE 80 and Lightning Protection Systems Designs.
- Metering and measurements
- Fire Protection Systems.

5.6 ELECTRONICS



- Building Management Systems
- SCADA and PLC
- Automation
- Energy Management Systems

5.7 WATER TREATMENT WORKS AND WASTE WATER TREATMENT WORKS

- Engineering and construction of wastewater treatment processing plants
- Process water production
- Wastewater decontamination
- Recycling treated wastewater and industrial effluents
- Reuse of treated sludge
- Zero liquid or zero effluent discharge
- Recovery of valuable commodities from wastewater
- Operation, maintenance and optimisation of wastewater treatment processing plants

6. Our Market

Our market includes among others:

- i) Commercial buildings
- ii) Residential buildings
- iii) Hospitals
- iv) Municipalities
- v) Transport sector
- vi) Fast moving Consumer Goods manufacturing companies (FCMGs)
- vii) Mining sector
- viii) Textile industry
- ix) Vaccines and pharmaceutical manufacturing companies
- x) Public sector
- xi) Private sector
- xii) Beverage industry and
- xiii) Power Plan

7. KEY PERSONNEL

Name : Lawrence Buwerimwe, Pr. Eng. Reg. No. 20120138- Mechanical
Qualification: BSc. Hons. Mech, M.SAIMEchE, GCC, ICMEESA Member,
MBA, PMI
Experience : 16 years (Building Services, Infrastructure)

Name : Noble Muromba, Pr. Eng. Reg No. 20120115- Electrical
Qualification: BSc. Hons. Elec. Eng.(UZ); IEEE; SAIEE,
Experience : 12 years (Infrastructure EPC, Project/Construction Management)

Name : Peacemaker Dyakuseni, Pr. Technologist. Reg No. 20120115 - Mechanical
Qualification: BSc. Hons. Mech. Eng.(UZ);
Experience : 13 years (Building Industry)

Name : Charles Mtetwa, Pr. Eng. Reg. No. 20120138- Mechanical
Qualification: BSc. Hons. Mech, M.SAIMEchE, GCC, ICMEESA Member,
Experience : 13 years (Building Services, Infrastructure)

Name : Richard Chitepo, Pr. Eng. Reg No. 20110117- Electrical
Qualification: BSc. Hons. Elec. Eng.(UZ); IEEE; SAIEE,
Experience : 13 years (Infrastructure EPC, Project/Construction Management)

Name : Wade Chanakira
Qualification: Electrical,
Experience : 18 years (Building Services, Infrastructure)

Name : Victor Muguti,- Mechanical
Qualification: BSc. Hons. Mech. Eng. (UZ);
Experience : 6 years (Building Industry)

Name : Samantha Mashabathaga
Qualification: Diploma in Accountancy (University of Johannesburg),
Experience : 5 years (Accounts Clerk and Office Administration)

CONSULTING

1. REFEREES

ITEM	PROJECT NAME	CLIENT	PROJECT VALUE (Excl. VAT)	CONTACT PERSON	CONTACT No.
1	Mechanical installations for the proposed refurbishment of the ministerial houses and the Union Building	ADI Engineers	R 120, 000, 000.00	Travor Ncube	012 348 6350
2	Mechanical installation for 85 Anderson Building JHB Rated 4 green star	Tsekwane Investment/ DPW	R55 000 000.00	I Msimangol/ L Taleni	011 312 3280/ 011 713 6070
3	Mechanical installation for Elsie Ballot Hospital	Mpumalanga Department of Public Works	R30 000 000	William	060 525 4429
4	Mechanical Installations for the Refurbishment of the Pharmacy and Administration Block at Ermelo Hospital	Excellerate Consulting	R 3, 182, 311.00	Tamuka Matuku	083 416 3542
5	Mechanical Installations for the conversion of Gymnasium to DBSTE Centre at University of Limpopo.	University of Limpopo	R 5, 200, 000.00	Collin Radebe	011 954 3835
6	Mechanical Installations for the proposed New Nursing College at Ermelo Hospital	Excellerate Consulting	R 8, 000, 000.00	Tamuka Matuku	083 416 3542
7	Mechanical Installations for the proposed New KFC and Office Development in Mbabane.	Excellerate Consulting	R 8, 552, 500.00	Tamuka Matuku	083 416 3542
8	Mechanical Installations for the Construction of a New Fire Station at Wedela in the Merafong Municipality, North West Province	Merafong Municipality	R 500, 000.00	Collin Radebe	011 954 3835

9	Mechanical Installations for the proposed New KFC and Office Development in Manzini.	Excellerate Consulting	R 6 187 500.00	Tamuka Matuku	083 416 3542
10	Mechanical Installations for the proposed New Institute of Medial Excellence.	Excellerate Consulting	R 47 421 530.00	Tamuka Matuku	083 416 3542
11	Mechanical Installations for the proposed refurbishment of bulk water supply pump stations for Bushbuckridge Water.	Excellerate Consulting	R 40 000 000.00	Tamuka Matuku	083 416 3542
12	Justice College (Electrical)	Tsekwane Department of Public Works	R 30 000.00	Israel Msimango	072 219 1485
13	Klipdrift Military (Electrical)	Tsekwane Department of Public Works	R 3 800 000.00	Israel Msimago	011 312 1766
14	Roigrond Prison (Electrical)	Tsekwane Department of Public Works	R 14 222 098.00	Israel Msimango	011 312 1766
15	Rant En Dal LSEN (Electrical)	ADI Engineering DID	R 5 941 782.00	Travor Ncube	083 984 6839
16	Merafong Street Lighting (Electrical)	Morad/ Merafong Manucipality	R 3 000 000.00	Wade Chanarika	073 088 0121
17	Smart Schools: Ponelepele School (Electrical) Design and Construction of school Toilet Facilities	DID/ ADI Engineering	R 2 827 089.00	Trevor Ncube	083 984 6839
18	Smart Schools: Dalpak School (Electrical) Design and Construction of school Toilet Facilities	DID/ ADI Engineering	R 6 543 887.00	Trevor Ncube	083 984 6839

20	Maintenance Services for Elevator	AES Consulting CC	R1 800 000.00	Tapiwa Mango	015 291 3305
21	Smart School: Ikusasa School (Electrical) Design and Construction of school Toilet Facilities	ADI Engineering	R2 923 233.00	Trevor Ncube	083 984 6839
22	Smart School: Tlamatlama School (Electrical) Design and Construction of school Toilet Facilities	ADI Engineering	R3 567 372.00	Trevor Ncube	083 984 6839

INSTALLATION, CONTRACTING AND PLANT MAINTENANCE

1. REFEREES

ITEM	PROJECT NAME	CLIENT	PROJECT VALUE (Excl. VAT)	CONTACT PERSON	CONTACT No.
1	Upgrading of a Water Treatment Plant in Greater Ritchiemodderiver	Makone Engineers	R30 185 800.00	J. Rantshonyane	011 704 0037
2	Hartbeesfontein Water Treatment Works	Luvhengo Engineers	R24 767 991.26	Mashudu Mudzuli	012 645 1143
3	Wonder boom Kitchen Equipment	TC Foromo	R8 500 000.00	Collins	072 152 7302
4	Potchefstroom Military Base Kitchen Equipment	RG Makopo	R5 500 00.00	Godfrey	082 969 0296
5	Limpopo Libraries Mechanical Services	AES Consulting	R4 500 000.00	Tapiwa Mango	072 024 9758
6	Umnotho House Installation of pumps	Tamiwell	R650 000.00	Kelvin	060 335 6477
7	LKB House Building Project	LKB House	R4 500 000.00	Lawrence Buwerimwe	071 868 7544
8	Polokwane Kitchen Equipment	Tsekwane	R45 000 000.00	Israel Msimango	011 312 1766
9	Golden Heights Mechanical and Electrical	MCC	R14 000 000.00	Claud	011 450 3336

10	Chamdor Tyre Base Mechanical Services	Environmental Affairs	R250 000.00	Anita	012 399 9000
11	Kroonstad Fire Station	Enviromental Affairs	R1 500 000.00	Anita	012 399 9000
12	Elukwatini Fire Station	Luphunyane Logistics Projects	R2 120 000.00	Bright Magocha	073 169 8652
13	Installation of facilities for the disabled (Elevators)	Tsekwane	R1 500 000.00	Israel Msimango	011 312 1766
14	Upgrade and Refurbishment of Belfast Waste Water Treatment Works	Makone Consulting Engineers	R21 520 230.00	Rantshonyane John Kololo	011 704 0037
15	Installation of Fire Detection System, Security Alarm System & Surveillance System	Khandama Construction And Projects	R340 820.00	IF Mutshinye	083 926 7877
16	Upgrade and Refurbishment of Shongwe Hospital Waste Water Treatment Plant	Makhosi Engineers	R23 682 629.00	Peacemaker Dyakuseni	074 462 2209
17	Installation of new Lifts at Union Building (Elevators)	ADI Engineering	R8 000 000.00	Admire Madziwanzira	013 741 5345
18	Thoyandou	Luphunyane Logistics Projects	R1 100 000.00	Bright Magocha	073 169 8652

2. MEMBER PROFILE

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