

# **WORK PROFILE**

## **OF**

### **MR. KHOMO. S. MAKOPA**

TEL : 078 618 5951/076 898 5364

✉ [khomomakopo@gmail.com](mailto:khomomakopo@gmail.com)



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### **1. INTRODUCTION**

- I am an organized, efficient, and target-oriented Construction Manager / Site Agent with **+13 years** of construction experience, managing large-scale Sanitations ,Building and Civil Projects, under the city of Johannesburg.
- I hold a **National N Engineering Diploma** , and my key achievements includes surveying and project constructions completing of over 14 Sewer and Water line projects , with ± 30 water pipelines tie-in points.
- Building and Civil Quality Control on a 60MW Solar PV plant, which includes construction of roads, way bridge, Installations of culverts, retaining wall, rc plinths ,streetlights and building of warehouse and bess stations, under ERGO DRD Gold.

### **2. My mission on projects**

- To design and construct a facility which improves the welfare and raise the living standards of society and company's success and growth.

### **3. My vision on projects**

- To possess a strategic mindset, looking beyond daily operations in anticipating challenges and planning for future .
- To deliver a successful project that meets or exceeds the client's expectations in terms of quality and functionality.

#### **4. PROJECTS COMPLETED AND PROJECT VALUES**

- ❖ **2 billion 60 MW** DRD ERGO Mine Solar SPV Plant (Tshedza solar farm)
- ❖ **15 million** Solar plant warehouses
- ❖ **1.4 million** 10<sup>th</sup> Street Rennie Road Brakpan( **Gravel Road rehabilitation**)
- ❖ **R168 000.00** 10<sup>th</sup> Street Rennie Road Brakpan( **Solar Street Light Installation**)
- ❖ **7 million** JW11017 Lenasia Southeast Basin (**200-315mm Sewer Pipeline upgrade**)
- ❖ **1.8 million** JW 12029 Lombardy West (**110 mm Water pipeline replacement**)
- ❖ **14.3 million** JW 11002 Stretford Ext 9a, and 1b(**200-315mm Sewer Pipeline upgrade**)
- ❖ **6.8 million** JW 13018 Ivory Park (**200- 450mm Sewer Pipeline upgrade**)
- ❖ **18.2 million** JW 13804 Zamimpilo Informal settlement (**Ablutions Blocks**)
- ❖ JW 13804 Kathrada park Informal settlement (**Ablutions Blocks**)
- ❖ JW 13804 Alveda Park (**Sewer rising**)
- ❖ JW 13804 Alexandra Helen Joseph hostel (**Ablution Blocks**)
- ❖ JW 13804 Alexandra M1 hostel (**Ablution Blocks**)
- ❖ JW 13804 Diepsloot (VIP Toilets)
- ❖ JW 14076 Princess Plots (Standpipes)
- ❖ JW Brixton (200mm Pipe cracking)
- ❖ JW Glenhazel (110mm Water pipeline replacement)
- ❖ **14.641 million** JW 14206 Witpoortjie B (**Sewer pipeline upgrade**)

All JW projects were located at Gauteng Province, under the jurisdictions of the City of Johannesburg, and the employer was Johannesburg Water (soc) Ltd

- DRD GOLD Tshedza SPV ( **DRDGOLD's Ergo Solar plant**)

## **5. PROJECTS SUMMARY DESCRIPTIONS AND OBJECTIVES**

### **I. Tshedza 60MW (DRD ERGO MINING)** Medium voltage grid connections works for proposed solar photovoltaic and energy storage solutions.

The projects entail installation of 133,000 solar panels, 22KV Bess sub-station with 43 batteries, 6.6KV Consumer substation, Admin building ,Warehouse ,600m\*600mm Double barrel culvert, Drift, and Way bridge.

Project objectives with a view to reducing its carbon footprint as well as addressing the uncertainty of the supply and cost of electricity.

### **II. Sewerage pipeline upgrading**

The project entails replacement of existing AC sewer pipelines and the installation of house connections. Pipes ranging from 160mm to 315mm. U.P.V.C, 450mm concrete pipes and 315 mm HDP pipes using an open trench method of construction.

According to the design team from Johannesburg Water these projects were implemented due to the continuous blockage of the main holes which created health and environmental hazards for the community. The main objective was to eliminate constant blockage.

u.PVC and HDP pipes were utilized in areas where the ground was saturated with water, dump rock; 19 mm stones and geotextile were used to prevent pipe from sinking.

### **III. Water pipe replacement**

This project entails replacement of the existing Asbestos Cement (AC) and steel water pipes ranging from 75mm to 200mm diameter and yards connection lines through horizontal drilling, with high Impact u-PVC pipes ranging from 110mm to 200mm diameter. The main objective of the project was to combat water supply disruption, pipe burst, rust and alleviation of the water wastage due to leakage and pipe burst. Pressure control valves and fire hydrant were installed to regulate pressure within the pipelines.

### **IV. Ablution Blocks**

The project entails the installation of Ablution facilities, Connection of the Ablutions to 160mm main sewer pipeline. The High Impact u-PVC pipes ranging from 110 mm to 160 mm diameter were used. The main objective of the project was to combat water supply disruption and gray water. install flush system toile facility and alleviation of the water wastage due to the overcrowding of people using standpipes.

**V. Ventilated Improved Pit Toilets(VIP Toilet)**

The project involves constructing a pit latrine with a concrete slab, superstructure and a vent pipe to improve sanitation and reduce odors and flies.

**VI. Standpipes**

Project entails installing metered service standpipes which provide access to bulk water supplies directly from a point on water supply main. The primary objective of the project is to provide communities with access to clean water through a network of standpipes ,typically in informal settlements with design guidelines ensuring accessibility of potable water. and a reliable source for their daily needs and improve sanitation and hygiene.

**VII. Pipe cracking**

Project involves the replacement of existing underground pipes, e.g.: water or sewer lines by fracturing the old pipe and simultaneously pulling in a new one , all without extensive design (trenchless technology).

**VIII. Under drilling**

This type of construction method was used on road crossings where a pipe is drilled under ground to prevent cutting off the road. HDPE pipes are welded together to the desired length and dragged through a drilled hole from end to end.

**IX. Sewer rising main.**

This type of construction project is a pressurized pipeline system which transport sewage from a lower to higher point and typically laid in trench with a minimum cover of 0.6m of earth cover.

**X. Road construction**

Project involves the construction of roads, way bridge with gravel, asphalt, and brick paving finishing.

Installation of v-drain ,storm drainpipes, wing walls, stone pitching, gabions and retaining walls.

The process includes site preparation, earthworks, subbase, and base course construction and finishing touches like signage and markings.

Installation of solar street lighting.

**XI. Building construction**

This project's includes building of a warehouse and bess station with a face brick finished wall, concrete foundation footings, concrete beams, columns, concrete slaps, and rebar blocks.

The primary objective of the project was to deliver a safe, functional, and aesthetically pleasing structure that meets the client's needs while adhering to budget and quality standards and ensuring compliance with construction regulations.

## **6. MY OCCUPATION / DUTIES AND RESPONSIBILITIES ON A PROJECT**

### **a) As a Construction manager / Site agent**

- ❖ Over roll control of the construction site.
- ❖ Responsible for safe operations of all staff on assigned projects as per statutory requirements.
- ❖ Conduct, develop and implement plans of action to meet client's requirements.
- ❖ Taking responsibility for any special engineering, design, location, or scale factors affecting the project, by monitoring project and solving problems proactively .
- ❖ Overseeing site operations on daily basis.
- ❖ Preparation of work quantities and reports as when required.
- ❖ Supervision and monitoring of the site labor forces and sub-contractors.
- ❖ Preparations of payments certificates and labor wages.
- ❖ Ensuring all materials used and work performed as per required specifications.
- ❖ Planning works and efficiently organizing plant and site facilities to meet agreed deadlines.
- ❖ Delegating project tasks to team members and managing their performance.
- ❖ Resource Allocation, by ensuring workforce and resources are adequate for and managing the use of plant and machinery.
- ❖ Conducting site inspections and ensuring that safety is adhered to.

### **b) As a Quality Controller / Project Coordinator**

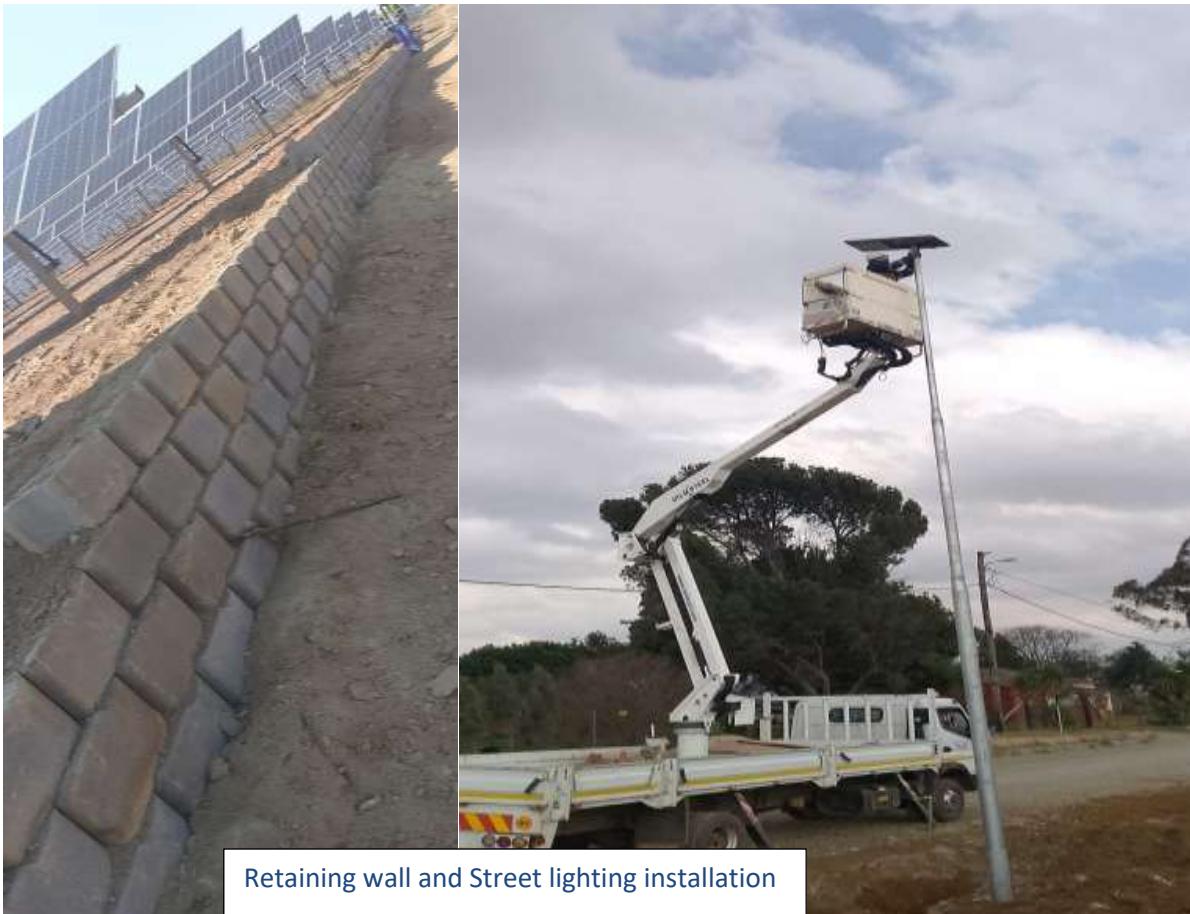
- ❖ Monitoring and conducting quality checks on performed work.
- ❖ Evaluate component matter against paperwork.
- ❖ Perform inspections and standardized tests on products samples to assess compliance with tolerances.
- ❖ Compiling and drafting of inspection sheets.
- ❖ Provide regular updates on project activities and performance for further processing.
- ❖ Checking payment certificates for approvals.
- ❖ Ensuring compliance with health and safety.
- ❖ Helping the design team with drafting civil engineering drawings.
- ❖ Submitting site progress reports, providing weekly photo documentation, and gathering data for daily work reports.

**c) As a Surveyor**

- ❖ Setting out .
- ❖ Pipe checking using CS10.
- ❖ Pipe pressure testing.
- ❖ Calculating the quantities and materials.
- ❖ Compiling of the day-to-day work in the site diary.
- ❖ Surveying (Leveling) using the Dumpy Level.
- ❖ Quality control.
- ❖ Preparing payment certificates.

**7. PROJECT PICTURES**







Sewer over pumping and Pipe checking (CS10)

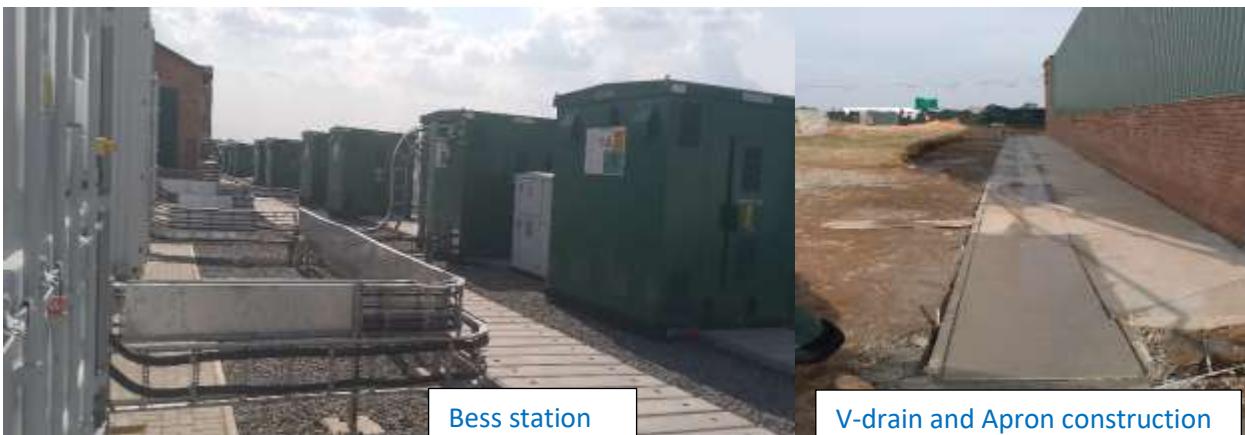


DCP and Pipe pressure testing



Compaction and troxler test







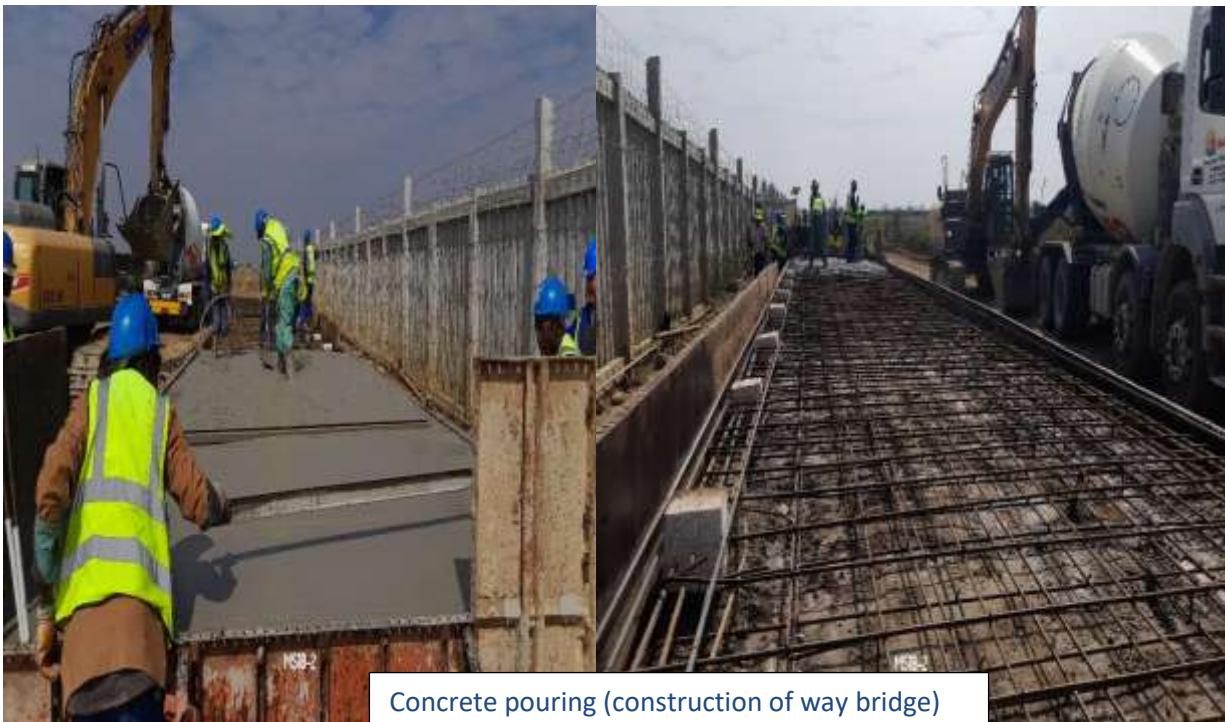
Epoxy flooring



Road construction

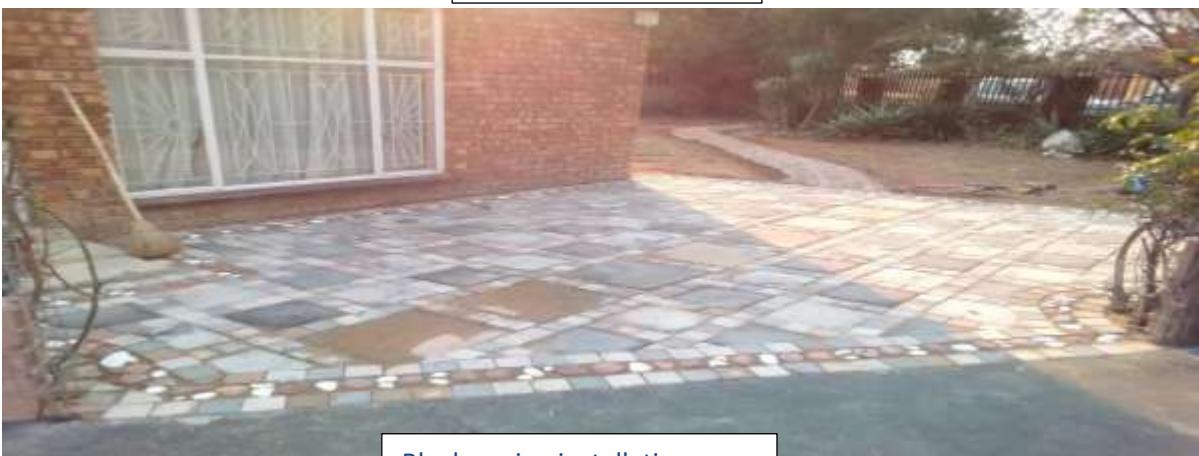








Installation of gabions



Block paving installation.



Reinstating of asphalt and installation of drift



Building construction



Paving



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Pouring of concrete



## **8. Conclusions**

I would welcome the opportunity to further enhance my knowledge in this field within a larger organization, I thoroughly enjoy the challenges involved and I am sure that working for your company will be an enormous privilege.

Moreover, with my years of work experience, I am confident that I would be an asset to the company.

## **9. References**

| Contact person              | Occupation  | Contact Numbers                     |
|-----------------------------|---|-------------------------------------|
| <b>Mr. Lusindiso Tshefu</b> | <b><i>Project Manager (Planet Earth Construction)</i></b> | <b>061 681 9878 or 073 886 1921</b> |
| <b>Mr. Matodzi Ramohulo</b> | <b><i>Engineer (Johannesburg Water)</i></b>               | <b>082 816 0333 or 072 365 2287</b> |
| <b>Mr. Nicolas Gouws</b>    | <b><i>H. QC (Enerj carbon management)</i></b>             | <b>082 452 0298</b>                 |
| <b>Mr. Dr T</b>             | <b><i>MD(Nkayiso trading )</i></b>                        | <b>082 853 4025 or 076 320 2537</b> |
| <b>Mr. Francois van Dyk</b> | <b><i>Site manager (Enerj carbon management )</i></b>     | <b>082 787 6173</b>                 |