

INFRASTRUCTURE PORTFOLIO

CAPABILITY STATEMENT











































Our infrastructure portfolio at a glance

Our MPAMOT Africa infrastructure team provides innovative solutions to the challenges facing the built and infrastructure sector. With a 25-year legacy as a leading engineering and development consultancy with nearly 200 professional engineers, and specialists, we are often the service provider of choice for infrastructure engineering projects in Africa.

MPAMOT has been involved in the design, project management and construction monitoring of a range of flagship projects such as Lesotho Highlands Water Project Advanced Infrastructure, Soccer City, Cote d'Or Multi Sports Complex, Cradle of Humankind, Sappi Saiccor Project Vulindlela Expansion, Witwatersrand University Student accommodation, Department of Environmental Affairs head office, BMW head office, Port of Ngqura operational buildings, Nelson Mandela Children's Hospital, Netcare Milpark Hospital and Erand Water Tower, to name but a few.

As a consultancy with home-grown talent and global experience we draw on a range of skills and insights that provide innovative design solutions and enhance building performance through application of Green Building and sustainability principles.



Our portfolio of services







Our MPAMOT infrastructure team has contributed to and led a wide range of flagship infrastructure projects on the continent. Our intervention on projects has long-lasting impacts on communities and society, promoting economic growth and advancing environmental sustainability and resilience outcomes.

We look forward to learning more about your project and exploring ways to assist you with infrastructure feasibility studies, designs, and project management solutions.



Shaun Ramsarup, Infrastructure Portfolio Director Email: shaunr@mpamot.com



Our infrastructure management team

Our highly experienced and diverse infrastructure team has both local homegrown insight, and global experience that enable us to drive a full one-stop-end-to-end service throughout the project lifecycle. Empowerment and skills transfer forms part of our ethos and we have seasoned engineers that provide project oversight, mentorship, and guidance on projects. Our young engineers, technicians and technologists are supported in their experiential learning journey, and we support our candidates working towards professional registration.















Global

networking partners



INFRASTRUCTURE PORTFOLIO

BUILT ENVIRONMENT

































The Civil Engineering and Building Services division provides design, construction management, due diligence, and audits over a broad range of civil engineering projects covering commercial, residential and industrial developments, sport, bulk sanitation and water infrastructure.

What we offer

Our MPAMOT built environment team is instrumental in driving flagship infrastructure design and construction projects including the following:

- Airport infrastructure
- Commercial buildings
- Education institutions
- Factories and warehouses
- Hospitality infrastructure
- Hospitals
- Industrial parks
- Mining Infrastructure
- Residential developments
- Retail centers
- Stadium and sports facilities

Structural engineering

Our Structural team provide clients with cost effective design solutions tailored to the local climatic conditions. This includes but is not limited to the following:

- Briefing for and interpretation of wind tunnel test data
- Column and core axial shortening analysis
- Composite structures
- Concrete structures
- Dynamic analysis and performance assessment
- Floor superstructure analysis and design
- Foundation analysis and design
- Seismic analysis and design
- Structural steel
- Temporary and permanent site retention
- Wind load analysis and design

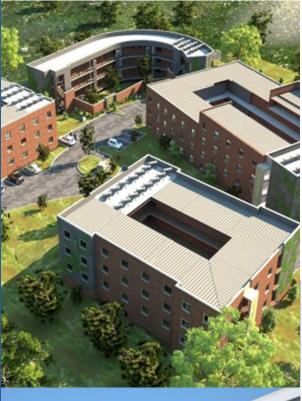




Educational infrastructure projects



These are some of our project highlights. More details are available upon request.



Project: WITS Junction Student Accommodation Location: Gauteng, South Africa Client: Wits University Expertise: Building Structures

Role: Civil, Structural, Electrical,

Mechanical, Traffic engineering

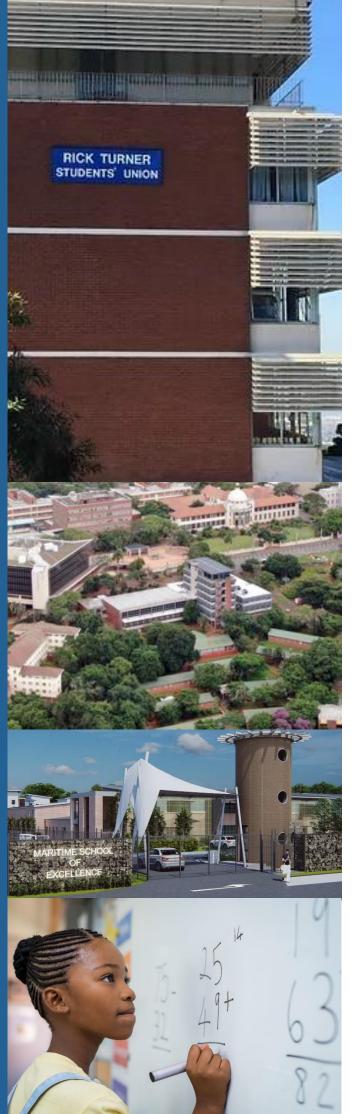


Project: UJ Soweto Campus Location: Gauteng, South Africa Client: University of Johannesburg Expertise: Building Structures Role: Civil, Structural, MEP, Fire

and Sustainability



Project: Westville Campus:
Repair of Corridors & Balustrade
Walls at Building E & F
Location: KZN, South Africa
Client: University of KwaZuluNatal
Expertise: Building Structures
Role: Design, construction
monitoring and programme
management



Project: Refurbishment of the Rick Turner Student Union Building
Location: KZN South Africa
Client: University of KwaZulu-Natal
Expertise: Building Structures
Role: Project Management
Structural Engineering

Civil Engineering

Project: Denis Shepstone Structural Rehabilitation Location: KZN, South Africa Client: University of KwaZulu-Natal Expertise: Building Structures Role: Project Management

Role: Project Management Structural Engineering Civil Engineering

Excellence
Location: Kwa-Zulu Natal, South
Africa
Client: DBSA
Expertise: PPCM
Role: Detailed design and

Project: Maritime School of

Role: Detailed design and construction monitoring

Project: DBSA KZN Storm damaged schools' programme

Location: Kwa-Zulu Natal, South

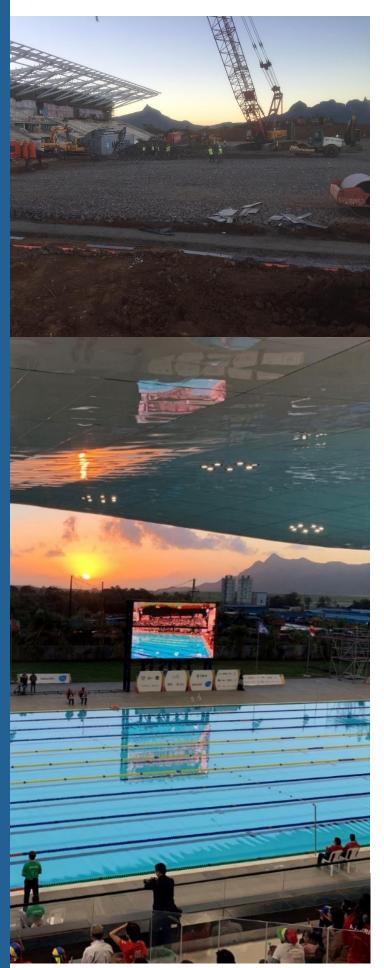
Africa Client: DBSA Expertise: PPCM

Role: Although the primary focus was building refurbishment, the team did the project, programme, and construction management



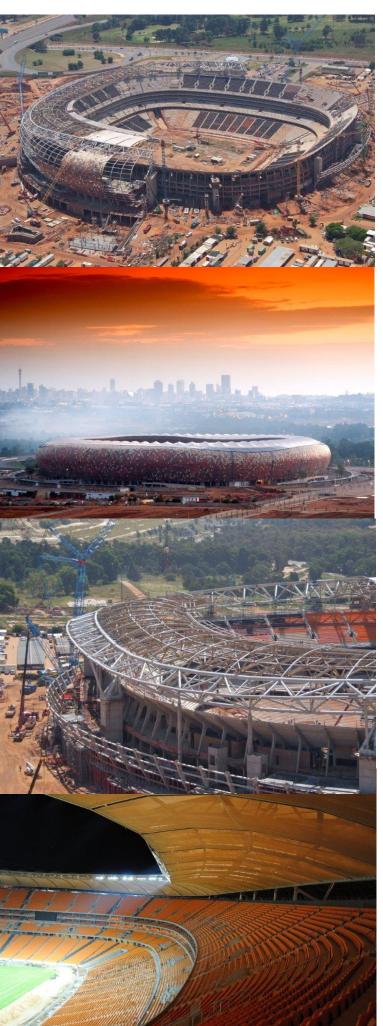
Sports infrastructure projects





Project: Cote d'Or Multi-sports Complex Location: Mauritius Client: Mauritius Multisport Infrastructure Limited (MMIL) Expertise: Multi-disciplinary sports stadium complex Role: Civil; Traffic; Structural; MEP Pedestrian Modelling, Geotechnical, Sports Design;

Fire



Project: Soccer City Location: Gauteng, South

Africa

Client: South African Football

Association

Expertise: Building Structures
Role: Civil and Structural
Engineering Design and
construction monitoring



Commercial building projects



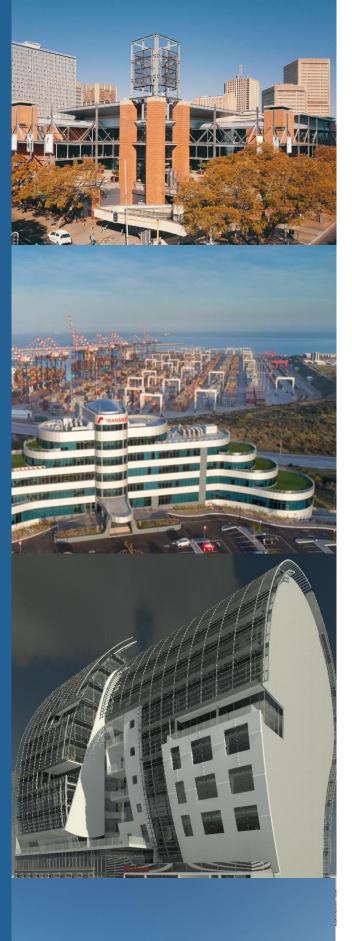


Project: Dept. of Environmental Affairs Head Office Client: DEA / Imvelo Consortium Expertise: Engineering Design, Project, programme, and construction management Role: Structural; Civil; MEP; Traffic, Environmental, Sustainability

Project: BMW Head Office South Africa Location: Midrand, Gauteng, South Africa Client: BMW South Africa Pty Ltd Expertise: Building Structures Role: Civil and Structural engineering design and project management



Project: PIC 72 Grayston Dr.
Refurbishment
Location: Gauteng, South
Africa
Client: Public Investment
Corporation
Expertise: Building Structures
Role: Mechanical engineering



Project: National Library Location: Gauteng, South

Africa

Client: Department of Public

Works

Expertise: Building Structures Role: Design, construction monitoring and programme

management

Project: Port of Ngqura –
Operational Buildings
Location Port of Ngqura, Port
Elizabeth, South Africa
Client: Transnet
Expertise: Building Structures
Role: Structural; Civil; MEP;
Environmental, Project
Management, Sustainability

Project: 85 Anderson Street Johannesburg CBD Location: Gauteng, South

Africa

Client: Department of Public

Works

Expertise: Building Structures Role: Structural Engineering

Project: SARS Office Location: Gauteng, South

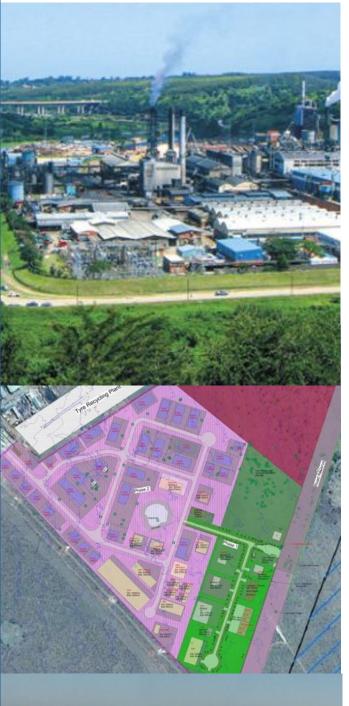
Africa

Client: Kagiso Intraprop Expertise: Multi-disciplinary with mechanical and electrical Role: Structural, civil, mechanical, and electrical engineering



Industrial infrastructure projects





Project: Sappi Saiccor Project Vulindlela Expansion Location: Umkomaas, Kwazulu Natal, South Africa Client: SAPPI Expertise: Building Structures

Role: Civil and structural engineering for heavy foundation industrial buildings, pipe, and utility bridges and MCC and transformer buildings.

Associated mechanical fire protection, HVAC, LP/Earthing and electrical engineering services.

Project: Kathu Industrial Park Location: Kathu, South Africa Client: Anglo American Expertise: Building Structures Role: Feasibility, Advisory, Civil, Structural, MEP Design Services, and Project Management



Project: Automotive Industrial Supplier Park Location: Rosslyn, Pretoria, South Africa Client: Automotive & Industrial Holdings (AIH)

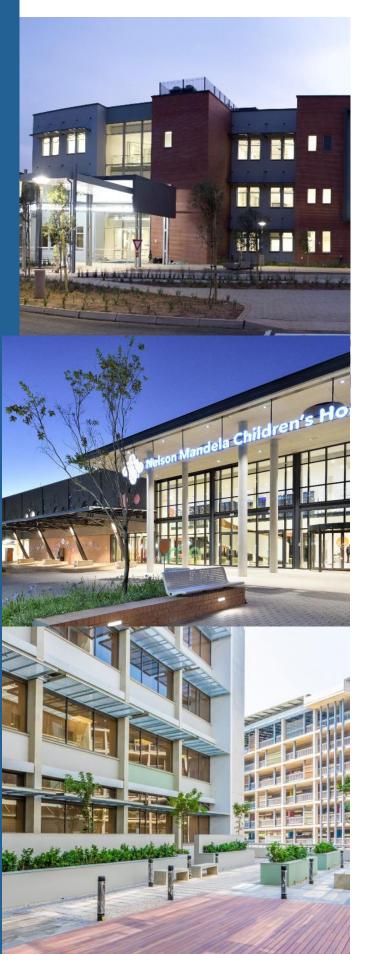
Expertise: Building Structures Role: Feasibility; Civils Services,

Structural, Transport



Healthcare infrastructure projects





Project: Netcare Pinehaven
Private Hospital
Location: Johannesburg, South
Africa
Client: Netcare Properties
Expertise: Building Structures
Role: Civil and structural

engineering

Project: Nelson Mandela Children's Hospital Location: Pretoria, South Africa Client: Nelson Mandela Children's Hospital Expertise: Building Structures Role: Structural and Civil engineering

Project: Netcare Milpark Hospital New Medical Block Location: Johannesburg, South Africa

Client: Netcare

Expertise: Building Structures Role: Civil and Structural

engineering



Retail and hospitality infrastructure projects





Project: ICC Phase II Location: Cape Town, South Africa

Client: Cape Town International Convention

Centre

Expertise: Building Structures

Role: Design and

implementation of electrical engineering services



Project: Liberty Midlands Mall Location: Pietermaritzburg, South Africa

Client: Liberty Expertise: Building Structures

Role: Civil and structural

engineering



Social Development







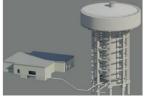




INFRASTRUCTURE PORTFOLIO

WATER AND WASTE WATER







































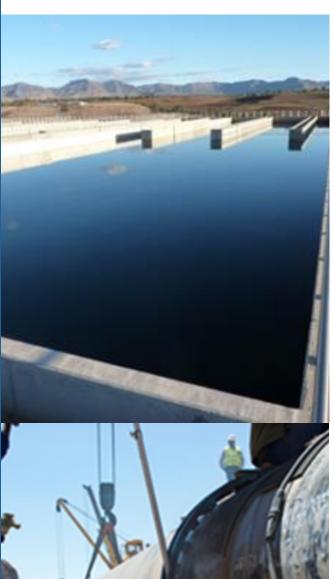






Water and Waste Water infrastructure projects





Project: Design Build of Metolong Water Treatment Works

Location: Maseru, Kingdom of

Lesotho

Client: CMC/Botjheng Joint Venture (Italy & South Africa) Expertise: Water and Waste

Water

Role: Water and Waste Water plant design, Process design, civil and structural design, construction monitoring



Project: Botswana North South Carrier Bulk Water Supply Pipeline Location: Moraiane to Palapye,

Location: Moraiane to Palapye, Botswana

Client: Botswana Ministry of Minerals, Energy and Water Resources

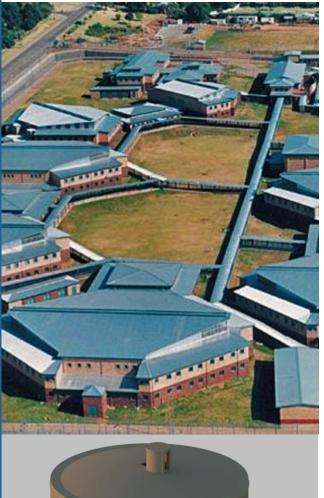
Expertise: Water and Waste

Water

Role: Bulk water pipeline design



Project: Design of Internal water supply and sewer reticulation, Location: Gauteng, South Africa Client: Western Cape Government Department of Human Settlements Expertise: Water and Waste Water Role: Design of Internal water supply and sewer reticulation, portions of street lighting and electrical supply



Project: Water and Sanitation Project: Repairing Baviaanspoort Prisons Wet Services and Structural Buildings.

Location: Gauteng, South Africa

Client: Department of Public Works

Expertise: Expertise: Water and

Waste Water

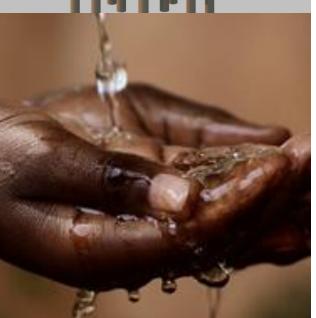
Role: Water network design, construction monitoring and programme management.



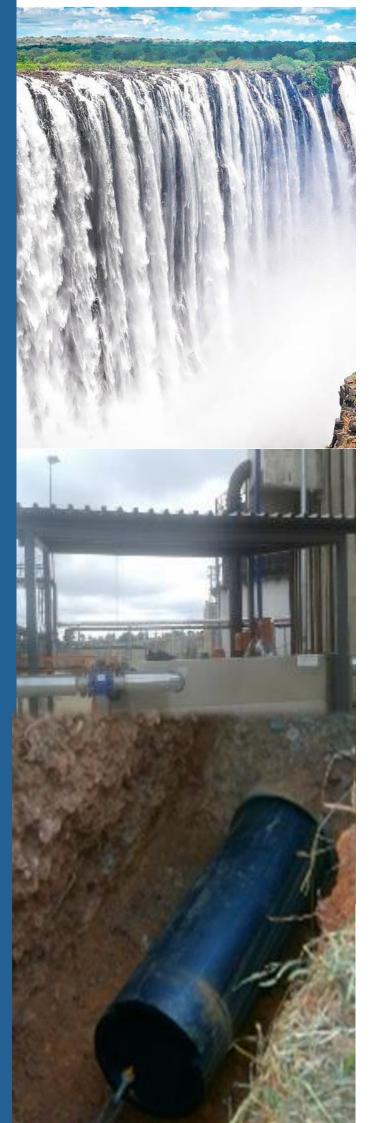
Project: Erand Tower Location: Gauteng, South Africa Client: Johannesburg Water SOC

Expertise: Water and Waste Water

Role: Services Rendered: Project Management. Civil, structural, mechanical, electrical and telemetry design. Site monitoring and contract Management.



Project: Jabulani Water upgrading Location: Gauteng, South Africa Client: Johannesburg Water Expertise: Water and Waste Water Role: Project management, design and construction, and construction monitoring



Project: Victoria Falls water treatment works Location: Zimbabwe Client: Victoria Falls Municipality

Expertise: Water and Waste

Water

Role: Design, construction monitoring and programme

management

Project: Refurbishment of Digesters 1 and 2

Location: Gauteng, South Africa Client: Knight Piésold (Pty) Ltd (for Johannesburg Water SOC Ltd)

Expertise: Water and Waste Water

vvater

Role: Design, construction monitoring and programme

management

Project: 1238 - Parktown Reservoir Relining & Civil Works Upgrade Location: Johannesburg northern suburbs, Parktown, Gauteng, South Africa Client: Johannesburg Water

SOC Ltd

Expertise: Expertise: Water and

Waste Water

Role: Design, construction monitoring and programme



Project: Metolong Water Treatment Works Location: Maseru, Lesotho Client: CMC / Botjheng JV Millennium Challenge Account Expertise: Expertise: Water and

Waste Water

Role: Design, construction monitoring and programme

management



Olifantsrus Hide

ETOSHA National Park, Namibia Location: Ombika, Okaukuejo, Galton Gate and Olifantsrus Client: MCA Namibia Expertise: Water and Waste Water Role: Architectural design Structural Design Water resourcing Reverse Osmosis water treatment technology Solid waste treatment Wastewater treatment Detailed design Tender Documentation Procurement Contract administration

Construction Monitoring

Project: Design & Construction Supervision of Infrastructure in the



Project: Greater Mthonjaneni

Bulk Water Supply

Location: Mthonjaneni Local

Municipality

Client: King Cetshwayo District

Municipality

Expertise: Water and Waste

Water

Role: Design, construction monitoring and programme

Project: Goreangab Water Reclamation Plant

Location: Windhoek, Namibia Client: City of Windhoek Expertise: Water and Waste

Water

Role: Design, construction monitoring and programme

management



Project: Jozini-Ingwavuma Bulk Water Supply Scheme Location: Kwa-Zulu Natal,

South Africa

Client: Mhlathuze Water Expertise: Water and Waste

Water

Role: Design, construction monitoring and programme





Project: Design Building of Metolong Water in Lesotho Maseru

Location: Maseru, Kingdom of

Lesotho

Client: Design Building of Metolong Water in Lesotho

Maseru

Expertise: Water and Waste Water

Role: Design, construction monitoring and programme

management

Project: Mjejane Bulk Water

Supply

Location: Hectorspruit / Mjejane, South Africa Client: Nkomazi Municipality Expertise: Water and Waste

Water

Role: Design, construction monitoring and programme

management

Project: Nandoni Water Treatment Works

Location: Thoyandou, Limpopo Client: Department of Water

Affairs

Expertise: Water and Waste

Water

Role: Design, construction monitoring and programme







Project: Waterval and Hartebeestfontein Wastewater Care Works – Hydraulic and treatment capacity study Location: Gauteng, South Africa

Client: East Rand Water Care Company

Expertise: Water and Waste Water

Role: Process and hydraulic modelling and optimisation of the plants to determine the capacity of the works. The report was used to apply for a rerating of the plants with the Department of Water and Sanitation.

Project: Technical Assistance to the Zambia Water and Sanitation project Location: Chingola, Zambia Client: European Investment Bank through Mulonga Water & Sanitation Company Expertise: Water and Waste Water

Role: Design, construction

Project: Design and Construction Supervision of the Towns Water Supply Location: Maseru, Lesotho Client: WASCO

Expertise: Water and Waste

Water

Role: Design, construction monitoring and programme



INFRASTRUCTURE PORTFOLIO ELECTRICAL AND MECHANICAL











































Project: Newtown Phase 2.1 and 2.3
Location: Johannesburg,
Gauteng, South Africa
Client: East Rand Water Care
Company
Expertise: Electrical and mechanical

management and monitoring

Role: Design, project

Project: Cradle of Human Kind Location: Sterkfontein Caves, Gauteng, South Africa Client: Department of Tourism Expertise: Electrical and mechanical Role: Design, project management and monitoring

Project: New head office
Earnest and Young
Location: Maputo, South Africa
Client: Earnest and Young
Expertise: Electrical and
mechanical
Role: Design, project
management and monitoring



Project: Nelson Mandela Bridge Location: Johannesburg, Gauteng, South Africa Client: Transnet Expertise: Electrical and mechanical Role: Design, project management and monitoring



Project: New showroom Location: Johannesburg, Gauteng, South Africa

Client: Nissan

Expertise: Electrical and

mechanical

Role: Design, project

management and monitoring

Project: Milpark Apartments Location: Johannesburg, Gauteng, South Africa Client: Pace Properties Expertise: Electrical and

mechanical

Role: Design, project

management and monitoring

Project: New Bridge over the

Umbeluzi

Location: Mozambique Client: Government of

Mozambique

Expertise: Electrical and

mechanical

Role: Design, project

management and monitoring

Project: Mary Fitzgerald

Square

Location: Johannesburg,

Gauteng

Client: City of Johannesburg

Expertise: Electrical and

mechanical

Role: Design, project

management and monitoring



INFRASTRUCTURE PORTFOLIO PROJECT, PROGRAMME AND CONSTRUCTION MANAGEMENT











































Business management and innovation

MPAMOT Group drives innovation and operational efficiency through implementation of world-class business management system, resulting in alignment of group and subsidiary operations, and positioning MPAMOT Group to scale and grow operations in Africa.

MPAMOT (Pty) Ltd has selected Deltek Vantagepoint and Deltek Talent in the Cloud. MPAMOT partnered with Silversoft South Africa to implement the Deltek tailor-made business management suite for the MPAMOT group and subsidiaries. This drives innovation and streamlined business processes for the group and subsidiaries through the implementation of an industry leading business management system.

This allowed us the align and optimise group and subsidiary business systems that will streamline and drive workplace efficiency, promote organisational collaboration, information storage, and simplify decision making, through a single industry-focused business management suite that delivers best practice for Consulting Engineers.

This promotes organisational collaboration throughout their excellent talent pool, and ultimately increase efficiency. Allowing MPAMOT to achieve its ultimate strategic goal. MPAMOT will enhance innovation by utilising leading cloud technology to automate and enhance the entire project lifecycle. Similarly, it optimised service delivery, people engagement, project, and operations management, further cementing the firm's reputation for being an innovator in the consulting engineering industry.







Project, Programme Management and Construction monitoring

MPAMOT manages the entire process from prefeasibility stage, to planning, engineering design, procurement, construction monitoring, and post-construction assessments. Our team of professional engineers and project managers provide innovative designs, while considering traffic planning to improve access and ease congestions. We enhance operational efficiencies, provide cost effective long- term solutions, and manage health, safety, and sustainability on each project.



Products and services: Construction monitoring

The level of service and the degree of monitoring required will also vary in proportion to the size and complexity of the development. In each case we consult with clients to assist them to select a range of services that are best suited for their needs. As part of our Construction Monitoring services, we typically provide:



Statutory compliance

Monitoring of compliance with statutory requirements e.g. obtaining and maintaining consents, permits and approval and complying with their respective requirements.



Environmental compliance

Monitoring compliance with environmental licences and their respective conditions.



Health and safety

Monitoring compliance with statutory health and safety requirements and associated method statements as specified / agreed prior to financial close.



Developer organisational and key staff changes

Monitoring changes to changes to the Developer organisational structure and changes to key staff and supply chain.



Developer project management systems

Monitoring Development implementation and compliance with project management systems and their alignment with widely recognised good industry practices.



Construction costs and programmes

Monitoring the progress of works against budgeted cost and scheduled programme / milestones. Reviewing and opining on time and cost to complete tests.



Design and construction quality

Monitoring the compliance of design practices applied with good industry practices, assessing the quality assurance systems and their implementation and the opining on the alignment of the actual works with the design.



Milestone completion and withdrawal request certification

Opining on the achievement of milestones and certifying withdrawal requests raised by the concessionaire.



Contracts

Assisting with the interpretation of technical matters in contractual documentation and advising on amendments.



Disputes

Providing expert technical advice in respect of disputes that arise between partied during construction.



Tests on completion

Witnessing the implementation of tests on completion.



Project, programme management and construction monitoring





Project: Lesotho Highlands Water Project Advanced Infrastructure **Location**: East Highlands

(Katse and Polihali), Lesotho Client: Lesotho Highlands Development Authority (LHDA) Expertise: Project, programme management and construction monitoring

Role: Professional Services for Planning, Design and Construction Supervision of Project Housing and Associated Infrastructure



Project: Lesotho Highlands Water Project Polihali Dam **Location**: East Highlands (Katse and Polihali), Lesotho Client: Lesotho Highlands Development Authority (LHDA) Expertise: Project, programme management and construction monitoring

Role:

Professional Services for Planning, Design and Construction Supervision of Polihali Dam

Project: Kusile Water **Treatment Works**

Location: Mpumalanga, South

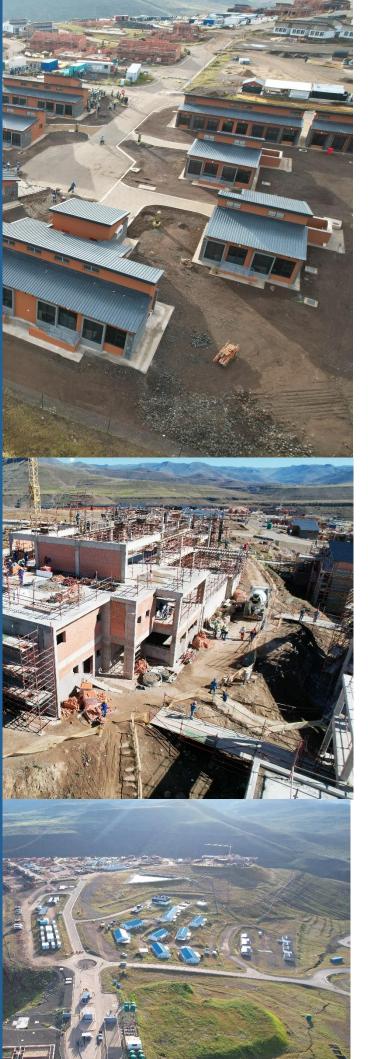
Africa

Client: Eskom

Expertise: Project, programme management and construction monitoring

Role:

Design, Engineering, Manufacturing, Supply, Quality, Commissioning



Project: Village Housing Polihali Dam

Location: East Highlands (Katse and Polihali), Lesotho Client: Lesotho Highlands Development Authority (LHDA) Expertise: Project, programme management and construction monitoring

Role:

Professional Services for Planning, Design and Construction Supervision of Polihali Dam

Project: Village Lodge Polihali Dam Location: East Highlands (Katse and Polihali), Lesotho Client: Lesotho Highlands Development Authority (LHDA) Expertise: Project, programme

Role:

monitoring

Professional Services for Planning, Design and Construction Supervision of Polihali Dam

management and construction





Contact us

We welcome your comments, thoughts and suggestions on how we can partner to increase our value to all our stakeholders. Contact us by email, phone or follow us on social media.

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