



entsika

Driven by a desire to make a difference



Engineering Technical Services Profile



entsika



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About Entsika

Entsika, a **level 1 BBBEE contributor**, is a **black owned and managed business**. It was established by a range of professionals across a broad spectrum of disciplines.

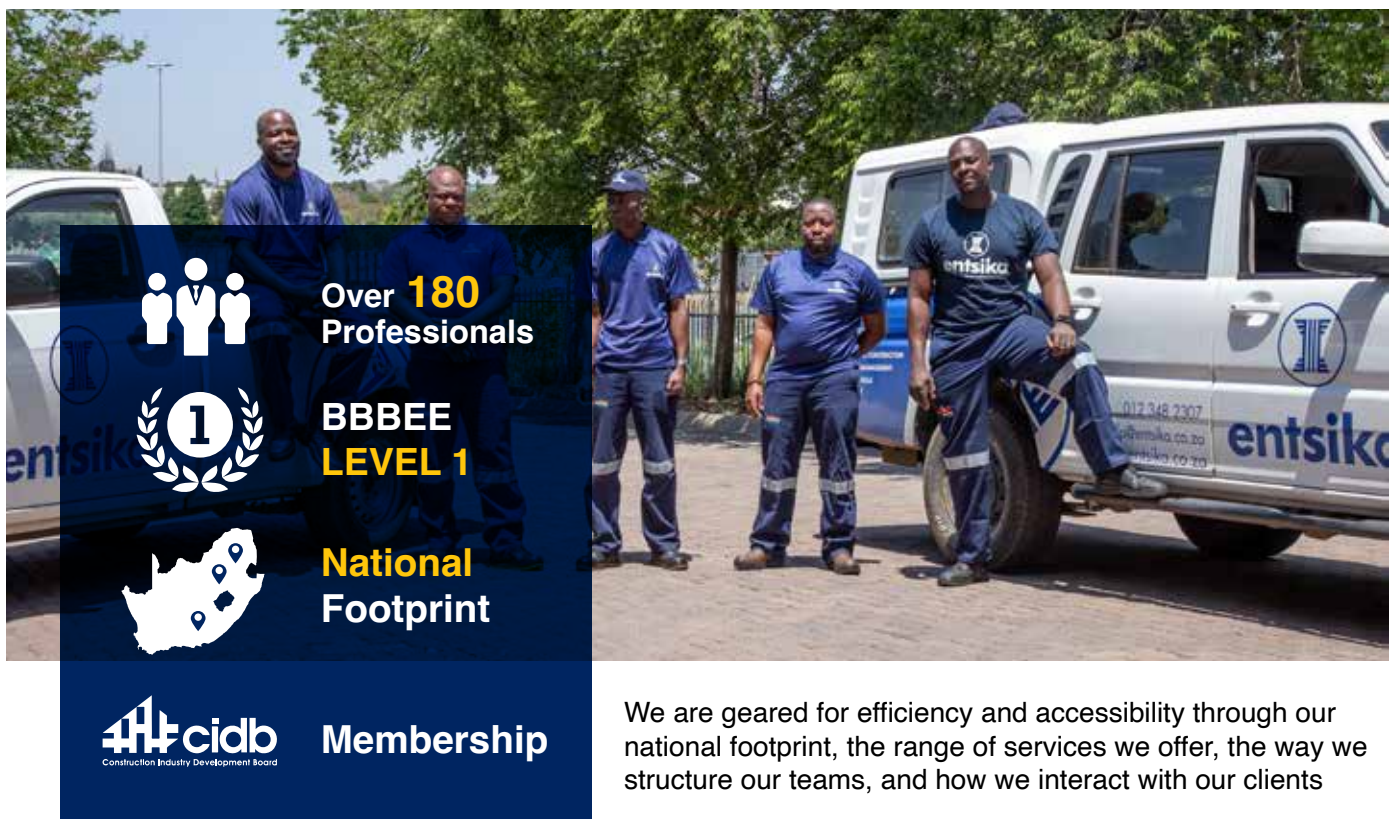
These encompass Engineering and Construction and Asset Management. The business, in all areas, serves the Southern African region, both for private and public sector clients.

We delivered on various large projects at both the National and Local level, e.g. waste & freshwater pump station maintenance, asset and infrastructure management projects, water conservation and water demand Green and Blue Drop, water quality management, process improvements projects, to name a few.

The asset and infrastructure management side of the business is undergoing rapid expansion, with a niche focus on the water, wastewater and power sectors. Recent contracts include the completion of a three-year nationwide project for the Department of Public Works in meeting specified Blue and Green Drop targets.

Central to Entsika's future growth strategy is the expansion of our engineering & construction and asset management divisions.

Entsika is currently graded as a **PE 1GB, 5EP, 6CE, and 8ME** contractor in terms of the Construction Industry Development Board (CIDB) system.



Over **180** Professionals

BBBEE LEVEL 1

National Footprint

Membership

cidb
Construction Industry Development Board

We are geared for efficiency and accessibility through our national footprint, the range of services we offer, the way we structure our teams, and how we interact with our clients

Our Pillars

We win through **excellence, quality of work, sustainability and teamwork!**

We win through excellence, quality of work, sustainability and teamwork! We believe in excellence, in appearance and substance. We believe that our client's success is our success. We consistently maintain high standards of service and always bring the best team to bear on every single project no matter the scale. We pride ourselves on the quality of our work which surpasses ordinary standards.



Excellence

We believe in excellence, in appearance and in substance. We achieve excellence by providing excellent client service to the mutual benefit of our clients and our firm and consistently producing quality work. We pride ourselves with the quality of our work which surpasses ordinary standards.



Quality of work

The quality of our work always remains our top priority and we never compromise it. It is in our "DNA", from a consultant to top executives. We continuously drive, monitor and improve on our quality standards so that we deliver optimal solutions to our clients. We are highly committed to finding better and more efficient ways of doing things.



Sustainability

We believe in an open exchange of ideas across all levels of our organisation for consistent sustainable growth. Knowledge and know-how is often something that most consulting firms are perceived as reluctant to share, however we believe the opposite is true. We believe in sharing knowledge and know-how with our clients and partners to ensure that we produce results that last.



Teamwork

We understand the diversity of our clients, their different business objectives and goals, different needs and even cultures. Despite these differences, we live the way they live. Our teamwork helps organisations explore extraordinary opportunities, manage and sustain growth and maximise revenue. Our team has a strong culture of teamwork and collaboration, ensuring that the right skills are deployed to meet each client's needs. We capitalise on the strengths of each member, acting professionally and seeking continuous growth and improvement. Accountability, confidentiality and transparency are paramount.

Engineering and Construction

Entsika's engineering and construction division provides a wide range of mechanical, electrical, instrumentation and civil engineering & construction services across all industry sectors.

Our engineering and construction services include the following:

- Mechanical, electrical, instrumentation and civil engineering services which **includes the supply, installation, construction and commissioning of plant equipment and machinery**, including the provision of technical assistance to client staff.
- **Civil works which includes the construction, upgrading and rehabilitation of roads, storm water infrastructure, paving of streets, bridge construction including mass earthworks and geotechnical surveys.**
- General building works which includes foundation and geotechnical works, various brick works, concrete works, paving, roofing, and plumbing works associated with residential and commercial buildings.
- Re-engineering and refurbishment of equipment, machinery and facilities.
- **Project management services on any turnkey engineering and construction projects, including feasibility studies, project scoping, planning and scheduling** as well as material procurement and quality management, just to name a few.

We execute our engineering and construction services without compromising on quality, safety, health & environment of the assets.

Our Key Projects:



BOREHOLES, PIPELINE & PUMP STATIONS

- Department of Water & Sanitation, Mechanical and other related major Plant and Machinery Installation, Maintenance, Repair, Refurbishment and Upgrade for Eastern Operations (KwaZulu Natal Province)
- ERWAT Servicing & Repairs of the Pump Stations & Reservoirs, Gauteng
- Rand Water, Namibia Drought Relief Programme, Omaheke Region
- Rand Water, War on Leaks Programme, Limpopo, Gauteng & Mpumalanga
- Mokolo Project (in partnership with Sinohydro SA, umbrella company of PowerChina) - Abstraction Works, Pumping Stations, Reservoirs, Pipeline, Related Multidiscipline Works, Ancillary Works



WATER EFFICACY PROJECTS

- Department of Public Works, Green Drop Project, National
- Department of Public Works, Blue Drop Project, Free State, Gauteng and Mpumalanga
- Department of Public Works, Water Quality Assessments, Free State, Gauteng and Limpopo
- Department of Public Works, Assessment of Water Distribution System Infrastructure & Development of Water Efficiency Strategy at 50 Client Facilities, Nelspruit, Polokwane & North-West
- Moqhaka Local Municipality, Panel of Contractors for Maintenance of Waste Water Treatment Works and Water Treatment Works, and All Sewer and water Pump Stations for a period of three years, Free State
- Rand Water, Project Management Unit: National Command Centre COVID-19 water relief intervention, Gauteng

Engineering and Construction



SOCIO-ECONOMIC DEVELOPMENT PROJECTS

- Rand Water, SED Project, Gauteng
- Rand Water, ED Project, Gauteng



Asset Management

Entsika provides asset management services that are tailor-made in collaboration with our clients across all industry sectors, and we assist them to:



Maximise operational availability and reliability, through the application and execution of sustainable Asset Management practices.

Identify, review and develop asset management strategies, plans, processes and practices and implement them organisation-wide to achieve maximum long-term operational availability and reliability without compromising safety, health & environment of the operation.



Review and optimise the management of assets in line with operational objectives and targets.

We believe that effective and efficient asset maintenance execution is one of the tools to optimise operations without compromising safety, health & environment of the organisation.



Our maintenance team has the capacity to meet the asset maintenance needs of any client and our services include the following:

Asset maintenance planning and scheduling of preventative, corrective and predictive (condition based) maintenance tasks.

Asset maintenance execution in terms of servicing, repairs and refurbishment of mechanical, electrical and instrumentation equipment and machinery, including facilities maintenance.

- Asset maintenance spare parts and inventory management.
- Development of asset maintenance strategies and plans.
- Refurbishment of equipment and machinery, such as pumps, motors, valves, gearboxes, to name a few.
- Performance monitoring & reporting (i.e. KPA's / KPI's).
- Safety management in terms of the Occupational Health & Safety Act requirements.

We provide a comprehensive, full-service package to asset owners to fully or partly outsource the maintenance of their assets, without compromising on quality, safety, health & environment of the assets and or plant.

“ We capitalise on the strengths of each member, acting professionally and seeking continuous growth and improvement. ”



We have done this before

We are a dynamic team of multi-disciplinary professionals driven by a strong desire to make a difference. We thrive on producing excellent results while working on challenging and complex projects. Our team are made up of Engineers, Artisans, Skills Development Facilitators and various other subject matter Experts.

We work with organizations across all industry sectors, providing them with practical business solutions to improve their competitive position and achieve real sustainable value. We deliver long lasting results as well as build capabilities. We partner with our clients to tackle real problems using proven methodologies, industry knowledge and with hard-earned experience.





“ Making a difference that cannot be measured

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We have done this before

Entsika is **committed to delivering a consistent, high quality client service to our clients.** We strive to provide the highest quality service and recognise that service quality extend well beyond execution of our methodology. Our service promise is driven by the quality of our team and effectiveness and value of our communications with management and related oversight authorities.



water & sanitation
Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

DWS PROJECT – EASTERN OPERATIONS

We are executing the following, amongst others:

Mechanical and other Related Major Plant and Machinery Installations, Maintenance, Repair, Refurbishment and Upgrade for Eastern Operations. Under this project, we are executing the following, amongst others:

- Water Treatment Plant Services at Midmar Dam
- Water Treatment Plant Services at Wagendrift Dam
- Water Treatment Plant Services at Spioenkop Dam
- Supply, Delivery & Installation of Ancillary Pipework between existing and duplicated Infrastructure for Nomalcu Water Works and Ludeke Raw Water Pump Station.
- Supply, Delivery & Installation of 3 No, 1250KVA Backup Generators and Integration with the existing 700KVA Generator (currently on site).
- Installation of Valves
- Supply, Installation and Commissioning of 400KW Rated Centrifugal Pump and Motor at Ludeke Raw Water Pump Station in Eastern Cape
- Civil interface with DWS Construction South and SOW with design, fabrication, transportation and installation of mechanical/electrical/structural components as well as demolition works in various KKD projects

Additionally, the project was extended to render mechanical and other related plant and machinery installation, maintenance, repair, refurbishment and upgrade at Worcester Area Office (Breede-Gouritz Catchment Area in the Western Cape province). Entsika is responsible for all infrastructure projects for whole Southern region (Western cape Province) with the exception of West Coast, COCT and Overberg.



water & sanitation
Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

DWS - MULTI-DISCIPLINARY SERVICES PROJECT

We have recently been awarded on a project for panel of Professional Services Providers (PSP) for professional multi-disciplinary services covering:

Civil, Structural, Mechanical, Electrical Engineering, Electronics Services, Architectural Services, Engineering Geological/ Geotechnical Services, Construction Contract and Project Management Services for a period of three (3) years for the Department of Water and Sanitation (DWS).

We have completed the following, amongst others:

- The execution of maintenance servicing and repairs of, all types, sizes and models of all electrical, instrumentation and mechanical equipment at waste and freshwater pump stations in the City of Ekurhuleni.
- The execution of maintenance on all ERWAT's pump stations and reservoirs and its associated components, which includes routine preventative, condition monitoring, corrective maintenance as well as refurbishment and overhauls on and as and when required basis.

We have completed the following, amongst others:

- Design, procure, supply, construct and install borehole water pumping systems and associated structures for water supply to the communities and livestock of Omaheke Region.
- The installed equipment includes submersible electric pumps, diesel generators complete with 3-phase control panels, storage tanks and stands, cattle trough and all associated structures, pipework and fittings.
- Tested, commissioned and handed over the installation of boreholes
- Repairs and maintenance of the installed equipment during the twelve months defects liability period

We have completed the following, amongst others:

- Process Performance Audit/Assessment
- Process Management and Control
- Management Accountability and Regulation
- Assets Management (Assets Registers and Shape File Drawings)
- Green Drop System
- Wastewater Risk Abatement Planning
- Incident Management Protocol
- Green Drop Improvement Plan
- Sludge (Waste) Management Plan
- Skills Transfer, Mentorship and Up-skilling
- Sizing and installation of Flow Meters
- Development of O&M Manuals

We have done this before



public works
Department
Public Works
REPUBLIC OF SOUTH AFRICA

BLUE DROP PROJECT

We have completed the following, amongst others:

- Water Safety Planning
- Process Performance Audit/Assessment
- Process Management and Control
- Management Accountability and Regulation
- Assets Management (Assets Registers and Shape File Drawings)
- Blue Drop System
- Risk Abatement Planning
- Incident Management Protocol
- Blue Drop Improvement Plan
- Skills Transfer, Mentorship and Up-skilling
- Sizing and installation of Flow Meters
- Development of O&M Manuals



public works
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WATER QUALITY ASSESSMENTS PROJECT

We have completed the following, amongst others:

- Established a comprehensive water quality monitoring programme at the National Department of Public Works Water Treatment Works, Wastewater Works and Water resources in 3 regions.
- Monthly sampling of all the Water Distribution Points, WTWs, WWTWs and Water Resources at the pre-scribed sampling points listed on the ToR;
- Monthly analysis of all determinant's stipulated on the ToR for each sample point;
- Monthly water quality compliance reports for each water facility sampled;
- Monthly Water Quality Results in an excel format.



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ASSESSMENT OF WATER DISTRIBUTION SYSTEMS

We have completed Assessment of Water Distribution Systems Infrastructure and Development of Water Efficiency Strategy at 50 Client Facilities. Their scope of service was to prepare a holistic Water Conservation and Water Demand Management Strategy for the Client Facilities and address the following:

- Water conservation and water demand measures
- Water distribution efficiency (limiting leaks) measures



RAND WATER

WAR ON LEAKS PROGRAMME

We have completed a Placement and Monitoring of the War on Leaks trainees – Phase 2 project. Entsika was allocated for:

- Training, placement, monitoring and evaluation of artisans and water agents in various municipalities and private institutions in the “Inland Region”, for practical work experience relating to national water infrastructure maintenance for the prevention of leaks

We believe that effective and efficient plant maintenance execution is one of the tools to optimize production without compromising safety, health & environment of the plant.

PoE







Driven by a desire to make a difference

Head Office - Gauteng

490B Oracle Close
Smuts Dr
Waterfall Extension 4
Midrand
1685

**Entsika Cape Town
Workshop**

14 Rattary Street
Worcester
Western Cape
6849

**Entsika Foundation
Centre of Excellence**

Plot 144 Sterkfontein Country Estate
Krugersdorp
Johannesburg
1739

www.entsika.co.za

012 348 2307