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## About Us

Naidu Consulting is a Level 1 BBBEÉ, ISO accredited (ISO 9001; 14001 & OHSAS 18001) South African professional services provider established in 1999 to provide consulting engineering services.

Our team includes highly qualified, professionally registered, skilled and experienced Engineers, Technologists, Technicians, Project Managers, Quantity Surveyors and Construction Managers. We utilise leading technology, hardware and software across our service offerings.

We are an award winning firm that offers and delivers a comprehensive range of high quality, skilled professional services in the Transportation, Water and Sanitation, Structures and Economic Development sectors with diverse offerings within each.

Øur portfolio of experience includes a wide range of successful projects that spans from minor works to complex and intricate infrastructure projects which both incorporate, as an added value offering if required, EPWP and labour intensive strategies, local labour utilisation and training as well as emerging contractor participation.



- Fosters a work environment where people matter, all the time;
- Employs a preferential procurement process designed to utilise the services of B-BBEE enterprises;
- Selects and recruits high-calibre staff who are well-qualified, highly skilled and entirely dedicated to innovative service delivery;
- · Supports and develops its team through impactful mentorship and training programmes;
- Supports the National Development Plan;
- · Engages with and participates in National Committees for Technical Excellence and Design;
- Employs Labour Intensive design principles in all projects to enhance community benefits;
- · Considers impact of projects on the environment through all project phases;
- · Works towards the eradication of poverty and the creation of an improved quality of life for all South Africans;
- Delivers top quality innovative engineering solutions, backed by more than 20 years' experience as a firm;
- Is committed to technical excellence on all levels.

## Our Vision

Naidu Consulting is a leading provider of quality, economic and innovative engineering solutions that will be renowned for social and environmental awareness.

## Our Mission

Naidu Consulting constantly strives to provide professional engineering services promptly and efficiently. We are always mindful of our clients, stakeholders and community needs.

# NAIDU CONSULTING

ENGINEERING DEVELOPMENT











# Pavement Engineering & Construction

Routine and periodic maintenance of road pavements is critical to prolong the country's road network.

We apply "reduce, re-use and recycle" principles in pavement rehabilitation projects to effect sustainable, environmentally friendly solutions. We have introduced cutting edge technology such as BIM Technology, smart construction technology, including georeferencing for as-builts, through ongoing research with nationally and internationally recognised bodies and integrate social and environmental impact through all of our projects.

Our portfolio of Road Rehabilitation projects include National, Provincial and Municipal roads and highways. We package road rehabilitation projects to support contractor incubation and job creation.





# Bridges & Buildings

Structural engineering focuses on the design of integral components to withstand and transfer loads in man-made structures including bridges, buildings and culverts.

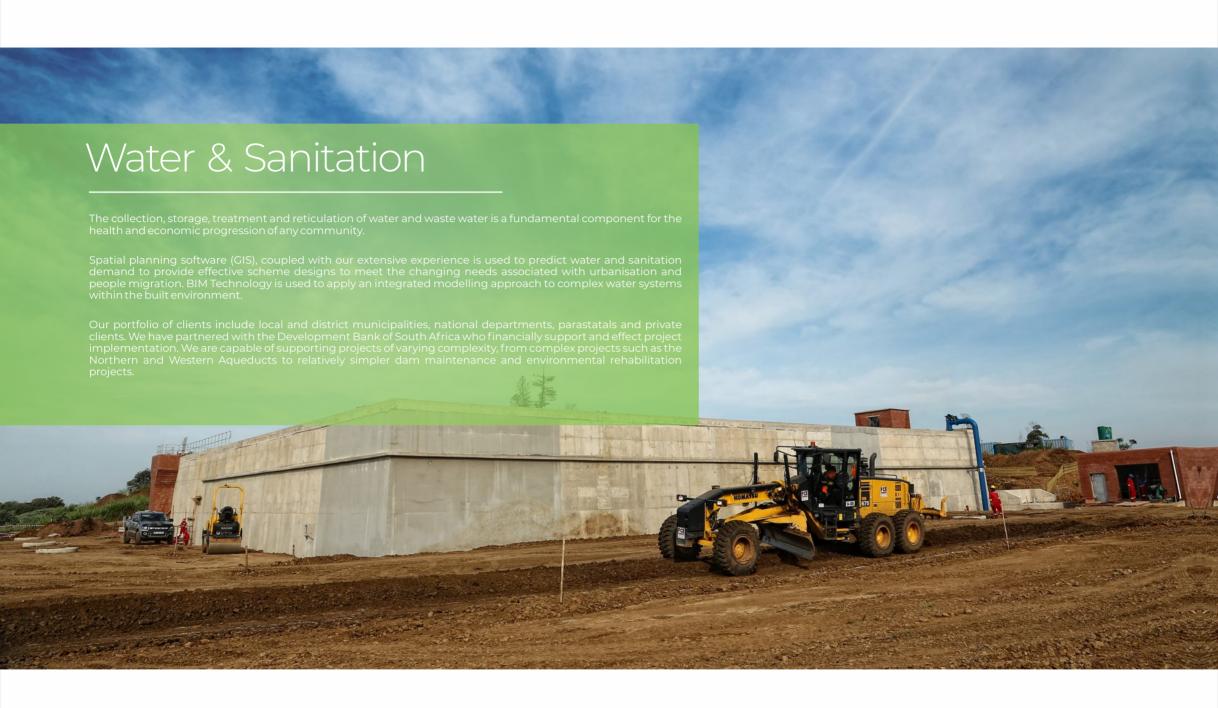
Our multi-award winning engineering team provides an analytical, innovative approach to safely transfer loads through structural components such as bridges, buildings and culverts. We use the latest technology to rendred 3D imagery and virtual reality simulations of these complex structures. We continually explore innovative methods and materials, improving aesthetic appeal and functionality whilst enhancing job creation capability during construction and through maintenance. Our approach was commended through winning industry recognised awards for both Technical Excellence and Community Based Projects for the same project: the first consultant to do so.

Our portfolio of clients include both the public and private sectors, providing a range of services from maintenance of schools to complex bridges and buildings.

## Services

- Pre-stressed concrete bridge design
- Cable stayed structural design
- High rise building design
- Virtual reality infrastructure simulation BIM
- Water retaining structural design
- Specialised concrete testing and forensic investigation
- Structural rehabilitation
- Coto accredited senior bridge inspectors







## Services

- Water resourcing & planning studies
- Non-revenue & water demand management analyses
- Networking modelling & surge analyse
- Bulk water supply system design
- Dams & abstraction works
- Groundwater resource utilisation & monitoring
- Water treatment works
- Water storage reservoirs & towers
- Pump stations, bulk water pipelines & water reticulation
- Wastewater master planning
- Bulk sewer & sewer reticulation design
- Sewerage pump stations & wastewater treatment works
- Dry sanitation services
- Eco-friendly constructed wetlands
- Stormwater planning &catchment master plans
- Hydrological & hydraulic modelling
- Stormwater management & control designs







# Project Management & Quantity Surveying

As projects become more complex, with increasing emphasis on delivery within budget and on time, Project Management and Quantity Surveying has grown into vital disciplines that must effectively quantify and manage multi-disciplinary professional consultant teams. Naidu Consulting has the requisite project managers and quantity surveyors, skilled and accredited in the disciplines, contained within the Project Management Institute's Body of Knowledge, to skilfully guide projects from inception to completion, delivering it within the pre-determined parameters of time, budget, risk, and quality, and meeting project objectives.

Our team is regularly called upon to provide turnkey project management and quantity surveying services, overseeing and implementing multidisciplinary and multi-sectoral projects that have key impacts upon the communities they serve. Utilising premier Project Management and Quantity Surveying systems, backed by an experienced team, we are excellently equipped to effectively manage client requirements, while planning for change and mitigating the effects of unknown variables.

## Services:

- Project Management in accordance with SACPCMP, PMBoK® or PDINCE2
- Developing the project brief
- Project procurement policies
- Preliminary and elemental or equivalent estimates of construction costs
- Financial viability reports
- Procurement strategies for contractors, sub-contractor and suppliers
- Preparation of Bills of Quantities
- Adjudicating and resolving contractual claims by the contractor
- Preparing valuations for payment certificates
- Preparing final accounts including progressive remeasurement

# Contract Development and Management Services

Public sector institutions are required to comply with specific legislation and policies – promulgated to enhance economic development and inclusive growth.

We unpack legislation and develop tailored guidelines and policies which efficiently and effectively operationalise such legislation, ensuring compliance with the Auditor General audits. We ensure relevance and value through such legislation and workshop all stakeholders whilst offering monitoring and management services to effect implementation.

We have performed extensive work with provincial government departments leading the developing of procurement documentation and guidelines including (FIPDM) and have supported municipalities and private entities throughout South Africa.

## Our Services:

- Tender evaluation, application & processing
- Monitoring &evaluation programme implementation
- FIPDM compliance, auditing, reporting, training & policy development Specialist claims processing services
- Engineering, Procurement & Construction
   Management contracts (EPCM) Contractor
   development strategy
- Independent technical auditing & reporting
- Procurement advisory &strategy
- Specialist in Contract Participation Goals (CPG) achievement Unbundling contracts to promote emerging contractor development



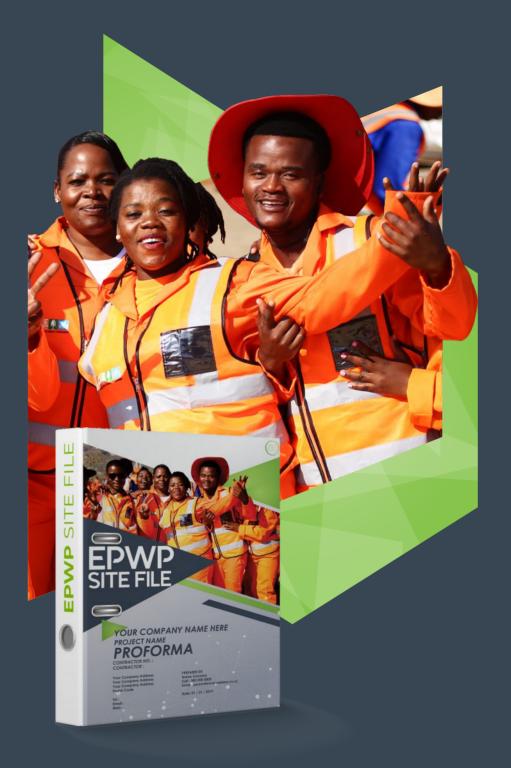
# Economic Development

#### **Expanding Public Works Programme**

Our extensive experience with the Expanded Public Works Programme (EPWP) enables us to provide tailored support to each client, ensuring that their policy development and stakeholder capacitation is undertaken in an effective manner. Supporting operational works, while ensuring that client needs are met, and job creation opportunities are generated, are fundamental principles for each project we commit to. Providing customisable cloud-based project management tools to monitor implementation and provide real-time feedback on project progress, we help clients to solve problems and overcome obstacles efficiently and effectively. A unique strategic approach that sees clients as collaborators, enables us to mobilise municipal structures, work closely with related stakeholders and ensure active participation throughout projects and programmes.

## Services:

- Development of strategic frameworks, policies and guidelines
- EPWP strategic planning, including annual performance plans, project selection & target optimization
- Local Economic Development planning, implementation and monitoring
- Macro/micro socio economic studies
- Pilot programme research, development and implementation support
- EPWP conceptualisation & principal skills training programmes
- Contractor development mentorship and management
- NQF Level 5 & 7 CETA accredited training (Labour Intensive Construction)
- Labour Intensive Construction (LIC) design, specification and support (NQF 5&7)
- Labour intensive routine rural road maintenance programme management (Zibambele Programme)
- · Data management services including data collection, capturing and loss reduction
- EPWP portfolio of evidence support



# Occupational Health & Safety

Underpinned by ISO 14001 and BSOHSAS 18001, Naidu Consulting understands the importance of maintaining Occupational Health and Safety standards within our workplace including the various projects we work with. Naidu Consulting deeply understands the importance of managing client risk within the construction sector. Simplifying the safety management process, while supporting developing contractors as they seek to comply with relevant legislation throughout their operations, we operate a fully-fledged Safety Unit that manages client safety risks throughout every phase of a project's life cycle.

Backed by expert knowledge and understanding of construction, health, and safety legislation, we engage with designers, and with rigorous attention paid to client requirements and project scope, craft and assist with the implementation of client safety specifications. Monitoring construction projects to ensure they comply with relevant legislation, and using a fully-customisable, cloud-based Compliance Management Systems (CMS), we provide real-time reporting and detailed analyses to our clientele. Utilising appropriate technologies in this way, enables our team to empower our clientele by supplying analytical data relating to trends and patterns, further entrenching our ability to provide expert recommendations for strategic improvement.

## Services:

- Crafting and implementation of client & project safety specifications
- Safety & risk assessments and analyses
- Construction permit application processing
- Site audits
- Provision & support of certified safety officers
- Cloud-based, app-driven safety management services & technical analysis
- Provision of safety files



# Information Communication Technology (ICT)

We provide infrastructure asset management solutions that support the Infrastructure Delivery Management System (IDMS), improve policies and procedures, promote integrated Corridor Development Principles and help to sustain the delivery of public sector services.

Our fully customised applications support the capturing of asset data and maintenance planning for both moveable and immovable assets. Asset management data allows for more accurate determination of strategic values, including current replacement costs and remaining useful life.

Our innovative range of management systems are implemented to help clientele monitor and maintain vital infrastructure across the country in accordance with National Legislation including the Division Of Revenue Act (DORA). These comprehensive management systems include:

- Bridge Management System (BMS)
- Pavement Management System (PMS)
- Water Management System (WMS)
- Compliance Management System (CMS)
   EPWP Management System (EMS)
  - Safety Management System (SMS)

## Services:

- Asset management strategy, planning & decision-making
- Asset management policy development & implementation
- Asset life cycle management
- Monitoring & reporting
- Risk management
- Development of maintenance & asset management plans
- Asset financial management
- Tailored monitoring tool development
- Physical verification & conditional assessment of assets
- GIS & geo-referencing capabilities
- mSCOA & GRAP compliance



L!NC® Management Systems is an innovative suite of software solutions built on powerful cloud based management databases and accessed through mobile interfaces. This innovative solution provides an efficient and effective link between cloud based databases and the operational activities on the ground.





#### **BMS (Bridge Management System)**

Bridge and Culvert Asset Management system with integrated qualified assessments for effective long-term planning and decision making.



#### PMS (Pavement Management System)

A versatile and robust system to collect, analyse, maintain and report pavement data with prioritisation modelling through road network profiling for optimum strategy and expenditure.



#### WMS (Water Management System)

Water management strategies for the conservation of water through asset management and qualified assessments.



#### **CMS (Compliance Management System)**

Simplifying organisational compliance with policies, legislation, contracts and specifications. Included is built-in workflows and risk management to ensure findings are documented and closed, reporting, monitoring and analytics for efficient planning and effective decision making.



#### **EPWP Management System**

Compliance and performance management of projects to relevant legislative requirements to improve the efficiency of reporting and managing job creation in accordance with the Expanded Public Works Programme.



#### Safety Management System

Simplifying organisational compliance with policies, legislation, contracts and specifications for Occupational Health and Safety.





# B-BBEE & Memberships

We are a proud level 1 contributor to B-BBEE. With 100% black ownership, we are longstanding implementors of transformation in our industry.

Naidu Consulting adheres to the most stringent and revered best practice guidelines, in terms of quality, health and safety and environmental issues. Naidu Consulting is ISO accredited for:

- BS OHSAS 18001 Occupational Health & Safety
- ISO 9001 Quality Management
- ISO 14001 Environmental Management.

Naidu Consulting is an accredited member of:

- Consulting Engineers South Africa (CESA)
- Engineering Council of South Africa (ECSA)
- South African Institute of Civil Engineers (SAICE)
- South African Bitumen Association (SABITA)
- Society For Asphalt Technology (SAT)















# Empowerment Programmes

We develop strategies for Small to Medium Enterprises (SMME) support with a clear objective to incubate and exit SMMEs into mainstream industry. As a CETA accredited training service provider, we continually identify the training and mentorship needs for these start ups and provide the necessary technical and practical training to enhance contractor growth and sustained development. We package our works to target CIBD contractors in order to capitalise on project spend while optimising the investment through Community Participation Goals (CPG). Our seasoned mentors will guide contractors during projects and assist with vital business management skills.





The Naidu Consulting Academy of Excellence develops trainee civil technicians seeking in-service training to get real-life, on-the-job exposure. This opportunity is a one-year programme where students will gain a practical and in-depth understanding of the engineering workplace through structured exposure to each of the company's business units. This is complimented with periodic in-house lectures by specialists within each unit and coupled with a CETA accredited 12 Month Project Management Learnership integrated into the programme. This approach provides trainees with a unique opportunity to become work-ready, confident, and familiar with every aspect of the engineering industry through exposure to our different divisions. Our mission is to create an experienced, confident professional.





# Awards

Naidu Consulting has won numerous high-profile awards. These include:

Winner: 2019 National SAICE Award

**Technical Excellence** 

2019 TOPCO Vision 2030 Awards (Celebrates drivers of the NDP)

**Finalist: Infrastructure** 

Finalist: Education & Skills Development

Winner: 2018 National CESA Engineering Excellence Award

**Mentorship Company of the Year** 

Commendation: 2018 National CESA Engineering Excellence Award

Projects with a value of less than R50m

Winner: 2012, 2013, 2014, 2015, 2016, 2018 & 2019 National SAICE Awards

**Community Based Projects** 

Winner: 2013 National SAICE Award

**Transportation Engineering** 

Winner: 2013 National SAICE Award

**Operations and Maintenance** 





# Portfolio of Projects

	PROJECT NAME	CLIENT	VALUE	DESCRIPTION
Roads & Highways	N3 Expansion from Ashburton to Murray Road	South African National Roads Association SOC Ltd (SANRAL)	R1.7 Billion	The upgrading of the existing national highway to a 5-lane dual carriageway facility including the Ashburton Interchange.
	N2 Wildcoast Highway Upgrade	South African National Roads Association SOC Ltd (SANRAL)	R1 Billion	The design of a new 10km dual carriageway including the Lusikisiki Interchange, pedestrian facilities and access roads, with extensive community participation including the training and mentorship of local SMME's
	The Upgrading of P104	KZN Department of Transport	R332 Million	Upgrading of the existing provincial gravel road to blacktop considering pedestrian and public transport facilities. Included the establishment of a precast concrete yard to manufacture kerbs and other ancillary products using members of the local community.
Pavement Engineering & Construction	Periodic Maintenance Of National Route 2 Section 23 From Hibberdene I/C (Km5.3) To Mzinto River (Km 32.8)	South African National Roads Association SOC Ltd (SANRAL)	R257 Million	Design and construction monitoring of the rehabilitation of 27.5km of the National Route 2, dual carriageway with 40% recycled asphalt manufactured with a mobile batch plant.
	Rehabilitation Of Main Road 398-1, La Mercy	Kwazulu Natal Department Of Transport	R143 Million	Design and construction management for extensive road rehabilitation of 11.2km of this major arterial, using sustainable techniques such as in-situ and in-plant pavement recycling on this pilot GreenRoads rehabilitation project.
	Development Of A Pavement Management System For Endumeni Municipality	Endumeni Municipality	R731 Thousand	Development and implementation of a cloud based pavement asset management database with a mobile device interface.
Bridges & Buildings	Isipingo Interchange	South African National Roads Association SOC Ltd (SANRAL)	R340 Million	Design of the interchange bridges consisting of a 40m wide by 80m long, pre-stressed precast M-beams with a reinforced concrete slab bridge deck and a future 490m incrementally launched box girder directional ramp.
	Nyakana River Bridge	KwaZulu Natal Department of Transport	R75 Million	Design and construction supervision of a 210m long, 10 span, dual carriageway, vehicular bridge.
	Upgrade of Metro Rail Bridges	Metro Rail	R45 Million	The Structural assessments and Rehabilitation of various Rail over River Bridges using LiNC BMS - web based mobile applications.
	Mhlalane Stress Ribbon Bridge	KwaZulu Natal Department of Transport	R12 Million	Design and construction supervision of a 2m wide, 125m long, two span, stress ribbon pedestrian bridge supported on two rock anchored reinforced concrete abutments and a reinforced concrete central pier including adjacent walkways.

	PROJECT NAME	CLIENT	VALUE	DESCRIPTION
Water & Sanitation	Western Aqueduct Phase 2	eThekwini Municipality	R860 Million	Design and construction supervision of 60km of continuously welded steel pipeline from Inchanga to Ntuzuma.
	Sterkfontein Reservoir and Pipeline Pump Station	City of Ekurhuleni	R90 Million	Feasibility study, detailed design and construction monitoring of a 25Ml reinforced concrete reservoir, bulk steel inlet, rising main and steel outlet pipe.
	Hammarsdale Dam	Department of Water Affairs	R50 Million	Re-engineering of a dilapidated, silted dam into a wetland including improved dam wall safety against flood damage and restoration of the natural habitat.
Economic Development	EPWP Technical Support: Cluster 1	National Department of Public Works	R32 Million	Support EPWP implementation to all municipalities and provincial departments for the Infrastructure Sector in Kwazulu-Natal, Mpumalanga and Gauteng.
	Zibambele Road Maintenance Programme	eThekwini Municipality	R24 Million	Management of the maintenance of rural roads using more than 6000, mainly female households from rural communities, utilising mobile technology to monitor and manage works and collate information onto a cloud based database.
	KZN EPWP Technical Support	KZN Department of Transport	R20 Million	Provincial coordination of EPWP, Integrated Grant support, KZN EPWP Framework, EPWP tender document alignment, Labour Intensive Construction support, EPWP policies, branding, social facilitation & contractor development.
Contract Management	Technical Consultants to the Pietermaritzburg Cost Centre (Dc22)	KZN Department of Transport	R3 Billion	Co-ordinating and monitoring activities within the region, Technical Support to management and updating data for the departmental assessment systems; prepare new contracts for road construction and maintenance using "bundling" modalities for small contractor development.
	Supply chain Management Policy for the Standard for Infrastructure Procurement and Delivery Management.	KZN Department of Transport	R6.5 Million	Develop SIPDM Policy, Compilation of a Procurement Strategy, Develop procurement documents in accordance with SIPDM, Conduct SIPDM Compliance Audits and Training.

## Our Clients







































RCL FOODS















# NAIDU CONSULTING

ENGINEERING DEVELOPMEN

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