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Naidu Consulting is a Level 1 BBBEE, 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.

Our 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.

About Us

- 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.
Roads & Highways

Effective, efficient and sustainable transport infrastructure is an essential catalyst for any society to thrive socially and economically.

Our highly experienced and award winning Roads and Highways Division offers a range of services that will ensure well designed, economically constructed and high quality roads and highways. It incorporates the latest technologies, from leading design and analysis software to innovative construction materials and techniques.

Our portfolio of successful projects include National, Provincial and Municipal roads and highways. We also offer, upon client’s request and as a value added service, the incorporation of emerging contractor participation, local labour utilisation and accredited training in major and minor construction contracts.
Services:

- Road geometric design & analysis
- Earthworks modelling
- HDM4 cost/benefit analysis
- Value engineering design of highways and major arterial roads
- Vehicle swept path analysis and simulation
- Hydro plane analysis
- Sustainability matrix analysis
- Integration of multidisciplinary services using BIM applications
- Road safety auditing
- 3D Visualization and rendering
- Labour Intensive Construction (LIC) design
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 built, 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.
Services:

- Traffic sensitivity analysis
- Pavement capacity modelling
- Life-cycle cost analysis, utilising HDM4
- Materials optimisation analysis
- Materials deconstruction planning
- Pavement and material specialists
- App-driven pavement management systems, utilising prioritisation and optimisation models
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 render 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.
Connecting communities and changing lives.
Water & Sanitation

The collection, storage, treatment and reticulation of water and waste water is a fundamental component for the health and economic progression of any community.

Spatial planning software (GIS) coupled with our extensive experience is used to predict water and sanitation demand to provide effective scheme designs to meet the changing needs associated with urbanisation and people migration. BIM Technology is used to apply an integrated modelling approach to complex water systems within the built environment.

Our portfolio of clients include local and district municipalities, national departments, parastatals and private clients. We have partnered with the Development Bank of South Africa who financially support and effect project implementation. We are capable of supporting projects of varying complexity, from complex projects such as the Northern and Western Aqueducts to relatively simpler dam maintenance and environmental rehabilitation projects.
Services:

- Water resourcing & planning studies
- Non-revenue & water demand management analyses
- Networking modelling & surge analyses
- 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
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 PRINCE2
- 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 re-measurement

Project Management & Quantity Surveying
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

Contract Development and Management Services
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
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
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.
Beyond providing funding for community upliftment programmes, Naidu Consulting implements and supports long-term social impact projects that respond to community needs, while leveraging real-world opportunities for local economic development. A Development Fund backed by community-centric strategic implementation plans, is used to support a variety of socio-economic projects. A dedicated bursary scheme provides financial assistance to individuals who wish to pursue technical careers in the civil engineering industry. Our centre of excellence provides training, guidance and mentorship to in-service engineering students. Our team also supports, develops and capacitates our clients’ teams through the provision of mentorship and training programmes.
We are a proud level 1 contributor to B-BBEE. With 100% black ownership, we are long-standing 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)
Through a committed and focused programme of staff support and development, Naidu Consulting provides every team member with diverse exposure to new skills and portfolios, improving versatility, capability, and experience. Formal accredited training is complemented with skills development initiatives that seek to upskill all members of the Naidu Consulting team. With a Commitment And Undertaking with ECSA, our structured mentorship programme links mentees with ECSA-registered mentors who develop a documented training plan that directly exposes mentees to all necessary learning outcomes related to their career path, therefore fast-tracking professional development and registration. This award-winning programme is also made available to our clients who may be seconded to Naidu Consulting to gain essential experience, while working on their respective projects. In 2018, Naidu Consulting won the CESA Mentorship Company of the Year Award.
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

Community Based Projects

Winner: 2013 National SAICE Award
Transportation Engineering

Winner: 2013 National SAICE Award
Operations and Maintenance
### Portfolio of Projects

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<td><strong>Roads &amp; Highways</strong></td>
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<td>N3 Expansion from Ashburton to Murray Road</td>
<td>South African National Roads Association SOC Ltd (SANRAL)</td>
<td>R1.7 Billion</td>
<td>The upgrading of the existing national highway to a 5-lane dual carriageway facility including the Ashburton Interchange.</td>
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<td>N2 Wildcoast Highway Upgrade</td>
<td>South African National Roads Association SOC Ltd (SANRAL)</td>
<td>R1 Billion</td>
<td>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.</td>
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<td>The Upgrading of P104</td>
<td>KZN Department of Transport</td>
<td>R332 Million</td>
<td>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.</td>
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<td>Periodic Maintenance Of National Route 2 Section 23 From Hibberdene i/C (Km5.3) To Mzinto River (Km 32.8)</td>
<td>South African National Roads Association SOC Ltd (SANRAL)</td>
<td>R257 Million</td>
<td>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.</td>
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<td>Rehabilitation Of Main Road 398-1, La Mercy</td>
<td>KwaZulu Natal Department Of Transport</td>
<td>R143 Million</td>
<td>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.</td>
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<td>Development Of A Pavement Management System For Endumeni Municipality</td>
<td>Endumeni Municipality</td>
<td>R731 Thousand</td>
<td>Development and implementation of a cloud based pavement asset management database with a mobile device interface.</td>
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<tr>
<td><strong>Pavement Engineering &amp; Construction</strong></td>
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<td>Isipingo Interchange</td>
<td>South African National Roads Association SOC Ltd (SANRAL)</td>
<td>R340 Million</td>
<td>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.</td>
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<td>Nyakana River Bridge</td>
<td>KwaZulu Natal Department of Transport</td>
<td>R75 Million</td>
<td>Design and construction supervision of a 210m long, 10 span, dual carriageway, vehicular bridge.</td>
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<td>Upgrade of Metro Rail Bridges</td>
<td>Metro Rail</td>
<td>R45 Million</td>
<td>The Structural assessments and Rehabilitation of various Rail over River Bridges using LiNC BMS - web based mobile applications.</td>
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<td>Mhlalane Stress Ribbon Bridge</td>
<td>KwaZulu Natal Department of Transport</td>
<td>R12 Million</td>
<td>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.</td>
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<tr>
<td>PROJECT NAME</td>
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<td>Western Aqueduct Phase 2</td>
<td>eThekwini Municipality</td>
<td>R860 Million</td>
<td>Design and construction supervision of 60km of continuously welded steel pipeline from Inchanga to Ntuzuma.</td>
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<td>Vulindlela Bulk Water Supply Scheme</td>
<td>Umgeni Water</td>
<td>R285 Million</td>
<td>Professional engineering services including feasibility, hydraulic design, tender and construction supervision for rising main pipelines, gravity bulk pipelines and pump stations.</td>
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<td>Sterkfontein Reservoir and Pipeline Pump Station</td>
<td>City of Ekurhuleni</td>
<td>R90 Million</td>
<td>Feasibility study, detailed design and construction monitoring of a 25Ml reinforced concrete reservoir, bulk steel inlet, rising main and steel outlet pipe.</td>
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<td>Hammarsdale Dam</td>
<td>Department of Water Affairs</td>
<td>R50 Million</td>
<td>Re-engineering of a dilapidated, sited dam into a wetland including improved dam wall safety against flood damage and restoration of the natural habitat.</td>
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<td>EPWP Technical Support: Cluster 1</td>
<td>National Department of Public Works</td>
<td>R32 Million</td>
<td>Support EPWP implementation to all municipalities and provincial departments for the Infrastructure Sector in Kwazulu-Natal, Mpumalanga and Gauteng.</td>
</tr>
<tr>
<td>Zibambele Road Maintenance Programme</td>
<td>eThekwini Municipality</td>
<td>R24 Million</td>
<td>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.</td>
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<tr>
<td>Technical Consultants to the Pietermaritzburg Cost Centre (Dc22)</td>
<td>KZN Department of Transport</td>
<td>R3 Billion</td>
<td>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.</td>
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<tr>
<td>Supply chain Management Policy for the Standard for Infrastructure Procurement and Delivery Management</td>
<td>KZN Department of Transport</td>
<td>R6.5 Million</td>
<td>Develop SIPDM Policy, Compilation of a Procurement Strategy, Develop procurement documents in accordance with SIPDM, Conduct SIPDM Compliance Audits and Training.</td>
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