

Toll Infrastructure Services Pty (Ltd) (Tollinfra) is a company specifically focusing on providing professional engineering and financial consulting services for the road transportation sector. Tollinfra provides specific emphasis on Toll Road development from concept to commissioning, as well as Traffic Control and Weighbridge infrastructure development and associated interfacing aspects with Intelligent Transportation System (ITS) and communications infrastructure. Tollinfra then completes the package with the provision of know how for servicing the Operations and Maintenance component.

SUMMARY OF TOLLINFRA'S SERVICES

The services provided by Tollinfra cover all related consulting and project management services necessary for the lifespan of the project.

THE FOLLOWING PHASES ARE COVERED:

- Conceptual, Feasibility and Strategic planning and design;
- Project Revenue model development;
- Operational and Maintenance Services planning;
- Preliminary and basic planning design phases;
- Detail design phase;
- Tender documentation and Tender processes;
- Construction Management and Supervision;
- Design and Construction Close-out;
- Operational and Maintenance Services implementation, monitoring and supervision; and
- System and Operational Services auditing.

TO PROVIDE THESE SERVICES, THE FOLLOWING TECHNICAL DISCIPLINES ARE COVERED BY THE TOLLINFRA TEAM:

- Civil and Structural Engineering;
- Electrical Engineering;
- Electronic Engineering;
- Mechanical Engineering;
- Architectural design;
- Project (Toll) Financial Planning and Auditing;
- Operations and Maintenance Engineering; and
- Legal and Financial services.

SOME OF OUR LOCAL AND INTERNATIONAL PROJECTS

G-ORT DESIGN BUILD AND OPERATIONS SUPERVISION

Tollinfra was appointed by the South African National Roads Agency to fulfill certain key aspects of the supervision of the Contract between the Contractor (Operator) and the Agency. This Contract is based on international Best Practices utilising the FIDIC conditions of contract, where the supervision role includes the application of the conditions, and ensuring that the extensive requirements are being fulfilled.

Tollinfra fulfilled the specific role of the nominated Employers Representative for the Design and Build phase of the project.. This project was developed almost entirely using local South African expertise, as SANRAL had determined that the cost and value obtained in the local market matched and bettered services available from broad based international sources. The Project included the supervision of all the electronic and IT systems as well as the operations related to the G-ORT Back

Office, National Transaction Clearing House and the National Violations Center, the latter two, as the name implies, being developed and applied across the entire South African roads network..





N17 TOLL PLAZA DESIGN AND CONSTRUCTION SUPERVISION

Tollinfra was appointed to the management of the preliminary design and implementation of the N17 Toll Project, running eastwards out of Johannesburg between Leandra and Ermelo.

The project consisted of the development and implementation of 3 mainline toll plazas with ramp plazas. The following services have been delivered by Tollinfra:

THE SERVICES PROVIDED INCLUDED:

- Strategic analysis of toll plaza positioning to optimise the cost of infrastructure versus toll revenue benefit;
- Traffic analysis in order to determine toll plaza sizing and toll lane configurations for a 10 year design period, as well as future predicted expansions;
- Method of payment analysis to coincide with the plaza sizing and expansion requirements within the context of the migration to Open Road tolling;
- Basic planning and preliminary designs of the toll plazas and control centres, including the civil and structural

- works, the building works, the electrical & mechanical works, and toll system and communication interfaces;
- Development of tender documents and managing of a tender process for the plaza construction;
- Development of tender documents and managing of tender processes for nominated sub-contract or similar arrangements for the supply of the electrical and mechanical systems;
- Co-ordination of 3rd parties in relation to adjacent road construction, operations and authority activities;
- Monitoring of health and safety, environmental, and quality assurance activities.
- Obtaining of authority permits; and
- Construction and hand-over supervision of the toll facilities.

This project was also undertaken as Specialist Consultant to Goba under the appointment of the South African National Roads Agency.



BEITBRIDGE TRAFFIC CONTROL PROJECT

Tollinfra was appointed as Design Consultant for an integrated traffic control and tolling facility.

The project included the planning, design, implementation and supervision of the construction of a toll plaza facility (buildings and toll lane area), including communications, security and toll systems to collect tolls, integrated with the overload fee collection systems and operations.

THE SERVICES PROVIDED INCLUDED:

- Traffic analysis;
- Micro positioning of facility;
- Co-ordination and interfacing with authorities;
- Basic planning;
- Preliminary design;
- Detail design, (only the electronic component);
- Tender process management, (only the electronic component);
- Construction and installation supervision, and electronic and multi disciplinary interfacing aspects; and
- Development and management of hand-over processes and interfacing with toll operations and maintenance.

G-ORT INFRASTRUCTURE: CENTRAL OPERATIONS CENTRE DESIGN AND SUPERVISION

Tollinfra was appointed jointly with another firm under a consortium structure for the design, development and construction supervision of the ORT Central Operations Centre in Midrand adjacent to the ORT project. This Centre is conceived and designed to house the entire operational administration and process all customer interfaces and future ORT and ETC transactions on a National basis. The Centre accommodates diverse aspects such as data centres, call centres, a Violation Processing centre, management offices, briefing rooms etc.

The main entrance to the buildings is designed to take the form of an African drum, flush glazed with traditional African motif.. Special diamond-shaped glass pyramids symbolise the diamonds of Gauteng, while gold coloured curved steel beams symbolise the gold of Gauteng.

The effect of using the symbol of the horn of an African Oryx gazelle as the supporting columns, symbolises power and protection and as used in the structural elements.

The Project implemented green architecture through sun shading panels. These elements are used both visually, and to protect the building from the harsh rays of the Gauteng sun.

The Ant theme which forms part of the landscaping, depicts ants as extremely busy creatures, always contributing to building and constructing their environment. This is compared to the daily commuter who is always busy travelling and contributing to the economy.



LEKKI EXPRESSWAY - LAGOS - NIGERIA

Tollinfra was appointed to oversee certain critical components of the management and implementation of a major toll concession project in Lagos, in Nigeria. This entailed the provision of the full scope of Operational Management Services for a Toll Concession Company. The project consisted of the rehabilitation of an existing road and the development of a green fields parallel route which will be used to service a rapidly growing area of Lagos, and placing these under toll.

The project consists of 80 km of tolled road, with 5 mainline toll plazas.

THE SERVICES PROVIDED INCLUDED:

- Strategic development of the tolling policies and strategies to optimise revenue with capital and operational costs;
- Facility planning in line with the operational and routine road maintenance philosophies;
- Basic planning, preliminary design and detailed design of all toll and road operations infrastructure;
- Basic planning, preliminary design and detailed design of all systems infrastructure, including the toll system,

communication systems, and ITS systems;

- Compilation of tender documentation and management of various tender processes for the procurement of toll and other operational electronic systems;
- Supervision and monitoring of construction works of toll plazas, and system implementation including project management;
- Managing the facility Take Over on behalf of the Concessionaire;
- Monitoring and commissioning management of systems installations (factory and site acceptance testing);
- Enabling the Concessionaire to establish an operating entity and training, mentoring and facilitating that entity;
- Mobilisation management and provision of key specialist staff to handle documentation and procedural development, movable asset procurement, recruitment and appointment of staff, training of staff, interfacing with 3rd parties, asset take-over, and management for operational purposes; and
- Continuing for a period of 5 years to provide toll audit and forensic services to the Concessionaire.



INVESTMENT IN PERSONNEL DEVELOPMENT

Tollinfra prides itself in promoting the working, learning and personal development of individuals and regularly sponsors deserving candidates to further their education or post graduate studies.

Tollinfra actively provides vacation work to individual engineering students and encourages those individuals, as well as staff members, to attend courses and conferences that will promote their personal and professional development.

CO-OPERATION AGREEMENT WITH BBBEE COMPANIES

Tollinfra is committed to establishing long-term relationships with BBBEE companies and has signed a long-term co-operation agreement with TollTech Pty Ltd – a fully independent, black owned company, operating in the toll collection equipment field – to support the development of TollTech into a viable entity in the toll field.

Tollinfra also entered into project-based co-operation agreements with other BBBEE companies, such as Shabangu Architects and KDM Quantity Surveyors.

COMMUNITY SERVICES

Tollinfra prides itself on being in a position to share some of the gains and value it has created to lesser privileged enterprises within the South African Community.

OUR ETHOS

Tollinfra strongly believes that to ensure the success of any project, a proven project development methodology is to be developed and applied throughout the project lifecycle. With that, the success of services rendered by Tollinfra is able to be measured in terms of lifecycle project cost savings brought about by these specialised consulting services.

Tollinfra believes in investigating and understanding the needs of the client prior to embarking on what is “understood” to be the needs.

Tollinfra therefore seeks to clearly understand the information at hand and the primary objectives being sought, and will then adapt and apply these requirements.

Finally, it is Tollinfra’s intention to deliver value to all the participants, and to provide its services in a manner that builds trust and confidence.

CONTACT INFORMATION

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