TRANSPORTATION:
Airports and Aviation Services
Profile

Our background
GIBB is a leading multi-disciplinary engineering consulting firm based in South Africa with 67% Black ownership. The firm has a strong African orientation with a wide geographical footprint on the continent.

The firm has been operating since 1956 and has proven capabilities in delivering world-class projects of any magnitude. GIBB prides itself on delivering high quality projects underpinned by an independently certified ISO 9001 quality system since 1999.

GIBB recognises and appreciates the potential offered by the African continent. Accordingly, GIBB has, over the years, developed an in-depth understanding of the challenges of developing infrastructure in Africa. This has contributed to the firm’s position as the partner of choice for the private sector, state owned enterprises (SOEs) and governments who seek knowledgeable people, with proven experience and the expertise to respond to the numerous infrastructure demands and needs of the continent.

Our experience
GIBB has executed various and complex projects across various sectors and engineering disciplines across many African countries. The firm remains committed to achieving excellence in every project, and is proud to be the firm of choice for the continent’s greatest engineers, who are leading experts in their fields. GIBB’s technical expertise is enhanced through our relationships with various global partners.

GIBB is conscious of the environment in which it operates in and continuously seeks ways to offer sustainable solutions on its projects.

The winning combination of top talent, in-depth industry knowledge, well-earned reputation for excellence and commitment to timeous, within budget delivery ensures that the client is guaranteed ultimate success of every project. GIBB’s long track record of industry awards is a testament of the recognition by our industry peers.

Our service offering
In addition to its traditional service offerings and in line with GIBB’s objectives of providing comprehensive solutions to clients, SVA International, one of Africa’s leading architectural practices has joined forces with the GIBB Group of firms. This has expanded the GIBB offering beyond engineering, to architecture and urban planning.

With offices in all major cities in South Africa and the rest of Africa, SVA’s areas of expertise include retail, hospitality, commercial, health, education and residential.

Our project exposure
The GIBB Group of firms operates across the entire Africa continent and has recently undertaken projects in: Angola, Botswana, Ghana, Lesotho, Malawi, Mozambique, Namibia, Nigeria, Rwanda, Seychelles, Swaziland, Tanzania, Uganda, Cameroon, DRC, Mauritius, Ethiopia, Senegal, Kenya, Djibouti, Gambia, Zambia and Zimbabwe.

Our markets
The markets GIBB operates in are:
- Transportation
- Freight and Logistics
- Power and Energy
- Water
- Sanitation
- Housing and Community Infrastructure
- Property Developments in retail, hospitality, commercial and residential
- Geotechnical and Tunnelling
- Natural and Built Environment
- Mining Infrastructure
- Health Infrastructure
- Education Facilities
GIBB’s Airports Engineering and Aviation Services Sector is a multidisciplinary business unit that offers clients, in consortium with architects, airport operators and other specialists, a comprehensive one-stop solution to a wide-range of airport and aviation services.

**Airports Engineering and Aviation related services:**

- Airport systems integration
- Air navigational systems
- Air traffic and transportation studies
- Air traffic control towers
- Air traffic forecasting and modelling
- Aircraft accident investigations
- Aircraft gates systems
- Aircraft maintenance facilities
- Airfield pavement (runways, taxiways, aprons) engineering
- Airport licensing
- Airport Master Planning
- Airport safety investigations
- Airspace planning
- Anti-pollution systems
- Architecture
- Blast fencing solutions
- Bridge engineering
- Business studies
- Car parking facilities
- Construction supervision
- Drainage and stormwater engineering
- Electrical engineering
- Environmental impact studies
- Environmental sustainable solutions
- Freight and logistics
- Fuel pipeline and storage systems
- Geological investigations
- Health and safety services
- Hydrology investigations
- ICAO compliance audits
- Information technology systems
- Land use planning and modelling
- Passenger simulations
- Pavement management systems
- Perimeter security systems
- Project financing
- Project management
- Property development
- Public Private Partnership projects (PPP’s)
- Road engineering
- Runway friction systems
- Socio-economic studies
- Structural engineering
- Terminal building developments and extensions
- Tunnelling engineering
Projects demonstrating GIBB’s Airports and Aviation Services

**Gulu and Kasese Airports Development**

**CLIENT NAME** Civil Aviation Authority  
**LOCATION** Uganda  
**PROJECT VALUE** $110 million

GIBB responsibilities  
Master Planning, geometric design, pavement engineering, airfield navigational systems, drainage and stormwater engineering, air traffic forecasting and land use planning.

**East London Airport: Rehabilitation of runways and taxiways**

**CLIENT NAME** Airports Company South Africa (ACSA)  
**LOCATION** South Africa  
**PROJECT VALUE** $25 million

GIBB responsibilities  
ICAO compliance investigation, air traffic studies, geometric design, pavement engineering, drainage and stormwater engineering and runway asphalt friction solutions.

**Airport Perimeter Security Infrastructure**

**CLIENT NAME** Airports Company South Africa (ACSA)  
**LOCATION** South Africa

GIBB responsibilities  
Electrical engineering, fencing solutions, low energy perimeter lighting solutions, access control systems and airside gates.

**OR Tambo International Airport Midfield Development (Package 1)**

**CLIENT NAME** Airports Company South Africa (ACSA)  
**LOCATION** South Africa  
**PROJECT VALUE** $20 million

GIBB responsibilities  
Initial Master Planning input, geometric design, pavement engineering, lighting, drainage and stormwater, structural engineering, building services, mechanical engineering, IT solutions.
PROJECT NAME
Sikhuphe International Airport Construction
( various packages)

CLIENT NAME
Government of Swaziland

LOCATION
Swaziland

PROJECT VALUE
$60 million

GIBB responsibilities
Master Planning review, geometric design, airfield navigational systems, drainage and stormwater engineering, pavement engineering, structural engineering, building services and runway friction solutions.

PROJECT NAME
Arusha and Mwanza Airport Master Plan Review and Development

CLIENT NAME
Tanzania Airports Authority and TIB Development Bank

LOCATION
Tanzania

PROJECT VALUE
R1.7 million

GIBB responsibilities
Master Plan review and development that includes pavement geometric design, airport terminal design, systems design, airport ICAO compliance requirements, land use plan, general aviation facility planning and strategic operational plan.

PROJECT NAME
Upgrade of taxiways to Code F standards at OR Tambo International Airport (various projects)

CLIENT NAME
Airports Company South Africa (ACSA)

LOCATION
South Africa

PROJECT VALUE
$15 million

GIBB responsibilities
ICAO compliance investigation, aircraft loading studies, geometric design and pavement engineering.

PROJECT NAME
OR Tambo Fuel Tank Farm Upgrade

CLIENT NAME
Airports Company South Africa (ACSA)

LOCATION
Johannesburg, South Africa

PROJECT VALUE
R160 million

GIBB responsibilities
Process and installation design for fuel tanks, fuel piping and appurtenances. Design of civil infrastructure and road geometric design for fuel farm facilities. Environmental review and local municipality approvals. Electrical and instrumentation design for petro-chemical plant. Traffic studies and traffic flow forecasts for fuel farm facilities.
Airports and Aviation Services projects

Blast fencing

Airport safety and ICAO compliance investigations

Aircraft accident investigations

Perimeter security systems

Structural engineering

Car parking facilities

Bulk storm water

Airport developments

Navigation systems

Terminal buildings

Aircraft gates

Construction supervision
<table>
<thead>
<tr>
<th>PROJECT</th>
<th>CLIENT</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td>Detailed airside infrastructure investigation, runway safety studies</td>
<td>Namibian Airports Company</td>
<td>Namibia</td>
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<tr>
<td>development at Ondangwa Airport</td>
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<tr>
<td>Rehabilitation of both runways, various taxiways, and runway strip and</td>
<td>ACSA</td>
<td>Eastern Cape,</td>
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<tr>
<td>RESA safety improvements at East London Airport</td>
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<td>South Africa</td>
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<tr>
<td>Master Planning, rehabilitation and upgrade of runway and construction</td>
<td>Uganda CAA</td>
<td>Uganda</td>
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<tr>
<td>of new aprons and taxiways at Gulu Airport</td>
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<tr>
<td>Master planning, construction of a new runway, taxiways and aprons at</td>
<td>Uganda CAA</td>
<td>Uganda</td>
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<td>Kasese Airport</td>
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<td>Aircraft accident and runway surface and safety investigation at George</td>
<td>Webber Wentzel/ACSA</td>
<td>Western Cape,</td>
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<td>Airport</td>
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<td>South Africa</td>
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<td>New control tower, runway asphalt and construction of a new taxiway and</td>
<td>Millennium PMU</td>
<td>Swaziland</td>
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<td>aprons for Royal terminal and various internal and access roads at Sikhu</td>
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<td>pe International Airport</td>
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<td>Design and built (turnkey) runway rehabilitation (phase 1 – design and</td>
<td>Kolwesi Airport,</td>
<td>DRC</td>
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<td>contract documentation) at Kolwesi Airport, DRC</td>
<td>Steffenutti Stocks</td>
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<tr>
<td>Rehabilitation of taxiways sections (A, E, J, N), apron areas (C, D)</td>
<td>ACSA</td>
<td>Gauteng, South</td>
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<td>and service road sections at OR Tambo International Airport</td>
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<td>Africa</td>
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<td>Extension of Charlie taxiway (new construction of 1.4 km, including</td>
<td>ACSA</td>
<td>Gauteng, South</td>
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<td>erection of new airside fence, four aircraft gates and security systems</td>
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<td>Africa</td>
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<td>) – OR Tambo International Airport</td>
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<td>New airside ring road north (4.5 km including underpass below hotel</td>
<td>ACSA</td>
<td>Gauteng, South</td>
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<td>taxiway, bridge at Anglo, airside fences, security systems, relocation of</td>
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<td>Africa</td>
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<td>security gates and relocation of ILS) at OR Tambo International Airport</td>
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<td>Alpha, Bravo and India taxiways (upgrade, rehabilitation and widening</td>
<td>ACSA</td>
<td>Gauteng, South</td>
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<td>of existing to Code F standards) at OR Tambo International Airport</td>
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<td>Africa</td>
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<td>Charlie, Echo, Hotel, Yankee taxiways (upgrade, rehabilitation and</td>
<td>ACSA</td>
<td>Gauteng, South</td>
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<td>widening of existing to Code F standards) at OR Tambo International</td>
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<td>Airport</td>
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<td>Overlay and repairs to eastern taxiways – Cape Town International</td>
<td>City of Cape Town</td>
<td>Cape Town, South</td>
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<td>Airport</td>
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<td>Africa</td>
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