

## R&H Experience

Project Description	Start date	End date	Client and Contact Details (Default country code - +27)
<p>North-South Corridor Supply Chain Study</p> <p>Rail specialist services to a multidisciplinary consortium of consultants to develop a short-to-long term implementation strategy for unlocking rail utilisation and capacity on the North-South Corridor from DRC to South Africa, traversing 6 countries.</p>	2017	Ongoing	NEPAD Business Foundation
<p>Majuba Rail Project Electrification, Signalling and Telecoms</p> <p>Design for construction of 67km of Overhead Traction Equipment (OHTE), 6x traction substations supplies, 5x 88kV switching stations, and 5 crossing loops' signalling and telecommunications equipment.</p>	2016	Ongoing	Ircon International
<p>Tshwane Freight Terminal and Logistics Hub</p> <p>Bankable Feasibility Study for greenfields terminal north of the City of Tshwane to facilitate intermodal freight logistics. Includes management of all pre-development tasks up to commencement of financial close.</p>	2016	On Hold	Mzansi Rail Technologies
<p>Ulu Pandan Depot Expansion Project</p> <p>Advanced Engineering Services for expansion of the Ulu Pandan Depot in Singapore. The depot will be upgraded to handle 94 trains and 600 busses. Activities, in collaboration with TY Lin, include feasibility study, concept design, preliminary design, tender documentation and bid evaluation up to award of civil contract.</p>	2016	Ongoing	TY Lin International
<p>Windhoek to Rehoboth Commuter Rail Service Feasibility Study</p> <p>Rail specialist services, forming part of a multidisciplinary team of consultants, for a feasibility study into establishment of a new 90km rail commuter service between the town of Rehoboth and the city of Windhoek, Namibia. Project commissioned by the Namibian Ministry of Works and Transport.</p>	2015	2016	Lithon Project Consultants
<p>Automotive Supply Chain Study</p> <p>Collaborative concept study with Arup, into the logistics of rail bound automotive business across South Africa. Focus on assessment of port and rail system, to review (1) current and future market demand, (2) quantify current status quo capacity, and (3) propose development and operational enhancement options.</p>	2016	2016	Transnet Group Planning and Sustainability

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<p>Capacity Simulation of TFR Network</p> <p>Ad hoc appointment for 12 months by Transnet Freight Rail to simulated rail network capacity as and when required. Three levels of simulations are done, i.e. high level desktop analyses, system parameter sensitivity analysis, and detailed operational simulation, including application of OpenTrack software.</p>	2015	2016	Transnet Freight Rail
<p>FEL2 and FEL3 Design of Ermelo-Buhrmanskop Line and Ermelo Remodelling</p> <p>Feasibility Study design for a new link from Ermelo to Buhrmanskop to reroute general freight traffic along the proposed Swaziland Rail Link, thereby releasing capacity on the Richards Bay Coal Line. The project includes Ermelo yard remodelling and capacity simulation, with the use of OpenTrack software.</p>	2015	2016	Transnet Freight Rail
<p>Southern Africa Regional Corridor Assessment</p> <p>Assess 18 logistics/transport corridors across 24 Southern African Countries in terms of infrastructure (rail, port and pipeline) condition, throughput capacity, commodity demand, aligned technical standards, legal-, regulatory- and institutional frameworks, and current and future projects.</p>	2014	2015	Transnet Group Planning and Sustainability
<p>Unit Cost Model Update</p> <p>Update and expand Transnet's Unit Cost Model, which is used for infrastructure and railway system capital planning in the Long Term Planning Framework (LTPF)</p>	2015	2016	Transnet Group Planning and Sustainability
<p>Coal System Strategy Development</p> <p>Assist Transnet Freight Rail and Transnet Group Planning with the development of a long term Coal System Strategy to ensure strategic alignment between various system capacity creation initiatives is achieved</p>	2014	2014	Transnet Freight Rail
<p>North Angola Railway</p> <p>Prefeasibility study for development of a 750km railway corridor between Luanda and Miconge (on Republic of Congo border)</p>	2014	2016	Angolan Ministry of Transport
<p>Durban Metro Rail Upgrade</p> <p>Upgrading of the Durban eThekweni Metro Rail system to accommodate shorter headways and increased slot capacity. Work includes replacement of the complete signalling system with associated track and traction electrification works, and performance simulations. EPC contract in joint consortium with Bombardier et al. R&amp;H's responsibility is all rail engineering design aspects.</p>	2012	Ongoing	PRASA / Bombardier

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<p>Swaziland Rail Link FEL3 Operations Model</p> <p>Develop, in conjunction with Transnet Group Planning and TFR Operations, the Operations Model for a new railway link between Lothair (South Africa) and Sidvokodvo (Swaziland). The project consists of both brownfields upgrades and greenfields developments, and involves multiple operators with cross-border operations</p>	2014	2015	Transnet Group Planning and Sustainability
<p>Overvaal Tunnel FEL3 Study</p> <p>Design of the new double line Overvaal tunnel on the Coal Line to FEL3 level. R&amp;H's scope entails OHTE, lighting, signalling and telecommunications</p>	2014	2015	Transnet Capital Projects / Aurecon
<p>Ore Line FEL2 Incremental Capacity Upgrade Study</p> <p>Design to FEL2 level a suitable upgrade solution for the Ore Line to incrementally increase capacity beyond 70Mtpa. R&amp;H's scope entails GFB strategy, Rolling Stock strategy, OHTE, lighting, signalling and telecommunication</p>	2014	2014	Transnet Capital Projects / Aurecon
<p>2014-2016 LTPF Development Assistance</p> <p>Assist Transnet Group Planning with development of the Long Term Planning Framework (LTPF) for rail for three years</p>	2014	2016	Transnet Group Planning and Sustainability
<p>Revuboe Moatize Coal Siding Design</p> <p>Feasibility study and design of a new coal load-out siding in Moatize, Tete, Mozambique.</p>	2014	2015	Minas de Revuboe
<p>Gauteng Freight Ring FEL1 Study</p> <p>Development of 30-year expansion plan for Gauteng's Freight Ring between Pyramid South and Houtheuwel, including Rustenburg line to link to Swartruggens</p>	2013	2014	Transnet Group Planning and Sustainability
<p>Tivani Export Siding and Logistics (FEL1 and FEL3)</p> <p>Plan and design to FEL1 and then to FEL3 level a new private siding near Tzaneen, and associated on-rail logistics for export of minerals to a port on the east coast of southern Africa</p>	2013	2015	Tivani Mining
<p>Project Phoenix FEL1</p> <p>FEL1 level study for upgrade of the existing Thabazimbi load-out siding to domestic and possible export destinations</p>	2012	2013	Kumba Resources

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<p>Ore Line FEL2 Upgrade to 82.5Mtpa FEL2 Study</p> <p>Design to FEL2 level a suitable upgrade solution for the Ore Line to increase throughput to 82.5Mtpa. R&amp;H's scope entails service design, GFB strategy, crewing strategy, OHTE, lighting, signalling, telecommunication, rolling stock and maintenance planning</p>	2012	2013	Transnet Capital Projects / Aurecon
<p>Unit Cost Model Development</p> <p>Compile a Unit Cost Model for large infrastructure and railway system capital planning into the Long Term Planning Framework (LTPF)</p>	2012	2012	Transnet Group Planning and Sustainability
<p>2013 LTPF Development Assistance</p> <p>Assist Transnet Group Planning with development of the Long Term Planning Framework (LTPF) for rail across South Africa, to be published in 2013</p>	2012	2013	Transnet Group Planning and Monitoring
<p>Durban Rail in Port (DRIP) FEL1 Study</p> <p>Develop a refined back of port rail master plan for Durban, including consideration of (1) New rail demands due to port terminal expansion and development, (2) The introduction of new and longer train configurations, (3) Environmental and social constraints, and (4) Longer-term development of the Airport dig-out and rail servicing a dual port system</p>	2012	2013	Transnet Group Planning and Sustainability
<p>Mayoko Iron Ore Export Design</p> <p>Planning and implementation supervision of a rail iron ore export system from Mayoko to Pointe Noire, including perway, operations, rolling stock and S&amp;T</p>	2012	On Hold	Exxaro Services: Congo
<p>Passenger and Freight Rail System Interoperability Study</p> <p>TGP, in collaboration with PRASA, have identified the need for a study into the viability of sharing railway corridors for medium speed passenger and freight services in South Africa. The objective of the study is to develop a strategic position for sustainable solution for the South African regional transport arena</p>	2012	2013	Transnet Group Planning and Sustainability
<p>Limpopo Coal and Other Mineral Supply Chain FEL1 Study</p> <p>Railway supply chain study for new coal and magnetite customers in Limpopo province to export and domestic destinations</p>	2012	2012	Transnet Group Planning and Sustainability
<p>Minnaar Siding</p> <p>Design of railway infrastructure for an upgraded loadout at Minnaar Mine</p>	2011	2015	Xstrata Coal South Africa
<p>Glosam Siding</p> <p>Design and implementation of new manganese loadout siding at Glosam in the Northern Cape</p>	2011	On Hold	PMG Mining

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National Circuit Breaker Replacement Programme Replace 3 kV DC High Speed Circuit Breakers. Services include specification, tender and management of project to replace circuit breakers country wide	2011	On Hold	PRASA
Sena Line Simulation Study Train service design and operations simulations on the Sena Line from Moatize to Beira, Mozambique	2011	2012	Rio Tinto Mozambique
Manganese and Iron Ore Export Study Demand and capacity analysis for manganese and iron ore exports to Salcor and Nqura	2011	2011	Trans Cape Concessions
Twefontein S&T Optimisation Design of signalling and telecoms system upgrade for Twefontein siding	2011	2011	Xstrata Coal South Africa
CDC Electrification Design, specification, tender and contract management of 25 kV OHTE in siding and rail area lighting	2011	2011	Coega Development Corporation
Uranium Mine Bankable Feasibility Study Study for new mine and import/export logistics, linking with Trans Namib and Walvisbay / Swakopmund ports	2010	2011	Swakop Uranium
Pretoria Train Service Improvement Conceptual design to improve the train service at Pretoria station including civil layouts, OHTE and signalling	2010	2011	PRASA