

Recent Project Experience

Project Description	Start date	End date	Value of Services in ZAR	Client and Contact Details
Nacala Corridor Coal and Grain Studies FEL1 and FEL2 studies, jointly with PRDW, into capacity expansion of the Nacala Railway and Port Corridor to transport additional volumes of coal, and to introduce new grain export/import tonnages alongside coal.	2020	Ongoing	R 8 000 000	CDN - Nacala Dércio Pereira - +25 82 124 3627
Navitrade Terminal 4Mtpa BFS Bankable Feasibility Study, jointly with Bosch Projects, to upgrade the RBT-Grindrod Navitrade Terminal in Richards Bay to handle 4Mtpa of coal or alternative bulk export commodities.	2020	Ongoing	R 2 800 000	RBT-Grindrod Andy Challis - +27 82 886 4824
Lodestone BFS Operations and Rolling Stock BFS-level design of a new railway operating model and resource deployment plan for iron ore exports from Dordabis to Walvis Bay, Namibia. Includes RFQ and adjudication of new fleets of locomotives and wagons.	2019	2020	R 250 000	Lithon Project Consultants Gert Maritz - +264 61 25 0278
Comexas Container Facility The design and construction of a container handling facility in Kolwezi, DRC. The facility is to handle both road and rail transport as well as have warehousing and container stacking facilities.	2018	2020	R 3 000 000	Comexas Afrique Olivier de Crayencour - +243 857 000 241
Angola – Zambia Rail Line Pre-Feasibility Pre-feasibility study, forming part of the Angolan Transport Masterplan, for developing a railway link from the CFB line in Angola to the North West Railway (NWR) in Zambia, via Jimbe Police Station. Development of rail traffic demand forecast, operating plan, capacity development, station layouts, maintenance plan and opex estimates.	2018	2019	R 900 000	Angolan Ministry of Transport Peter Watson – Dar Group
Kamoa Mine Supply Chain Pre-Feasibility Study Pre-feasibility level assessment of potential supply chains for Kamoa Mine's copper exports from DRC to a suitable seaport. Study includes road- and rail-bound logistics.	2018	2018	R 400 000	Ivanhoe Mines Peter Reavy - 011 088 4300
TCM Matola Terminal Development Review Review of Grindrod's masterplan and staged rail infrastructure development for increasing coal and magnetite export capacity through TCM terminal, Maputo.	2018	2018	R 100 000	Grindrod (TCM Mozambique) Braam Strauss – 082 904 9300

Project Description	Start date	End date	Value of Services in ZAR	Client and Contact Details
Electrical substation projects in Durban and Cape Town Investigation, detailed design and construction management for the refurbishment of the DC and AC traction substations in the PRASA KZN and Western Cape regions	2018	2020	9 000 000	PRASA Phillip Mahlase – Hloniphani Hobyani
Kipushi Mine Supply Chain Study Analysis is multiple export supply chains for Kipushi Mine's zinc concentrate. Study includes qualitative and quantitative assessment of various combinations of logistics options from Southern DRC to seaports, including Dar es Salaam, Nacala, Beira, Maputo, Richards Bay, Durban, Walvis Bay and Lobito.	2018	2018	R 900 000	Ivanhoe Mines Elia Michael - 011 088 4300
Kipushi Mine Front-End Engineering Design (FEED) Study Design for reinstatement of the Kipusi to Munama rail line, linking the SNCC network in DRC to the Kipushi mine. Study includes service design, environmental assessment, operating cost analysis, and business case development.	2017	Ongoing	R 8 000 000	Ivanhoe Mines Elia Michael - 011 088 4300
Coal Line Ops Model Development and Simulation Study Development of new Operating Model and Detailed Simulation study to accommodate alternative train configurations and traction technology on the Coal Export Line from Ogies to Richards Bay. Scope includes main line, sidings and Ermelo yard with OpenTrack software.	2017	2018	R 1 350 000	Transnet Freight Rail (Capacity Planning) Justice Ngwenyama – 083 269 7329
North-South Corridor Supply Chain Study 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.	2017	2018	R 2 100 000	NEPAD Business Foundation Andrew Mukanyima – 083 280 9364
Khoemacoo Logistics Supply Chain Development Development of a supply chain solution for the movement of ore from an excavation site to a nearby concentrator plant in northern Botswana. Study encompasses the development of a rail route and rail service (including simulations) and a trade-off study with competing road transportation options.	2017	2017	R500 000	Fluor South Africa Gerrit Coetzee – 082 375 7528
Grootegeluk Siding Upgrade FEL 4 appointments for the detailed design and construction of additional rail loading infrastructure at Grootegeluk Mine in Limpopo. The new infrastructure was designed to include a new rapid loadout station as well as 200 wagon coal trains	2016	2018	R 9 100 000	EXXARO Happy Ntsala - +27 83 280 7122

Project Description	Start date	End date	Value of Services in ZAR	Client and Contact Details
<p>Tambo Springs Rail Yard Simulation</p> <p>Simulation study to verify and refine the design of the rail yard to serve the planned Tambo Springs Intermodal Terminal. The yard as well as CapeCor mainline from Kimberley to Rietvallei were modelled in an OpenTrack Environment. Key outcomes included revised locomotive shunting operations, workshop location and identification of yard capacity breakpoints.</p>	2016	2017	R 700 000	Transnet Freight Rail (Logistics Integration) Deepak Budhram – 083 483 9917
<p>Ad Hoc Capacity Simulations of TFR Network</p> <p>Ad hoc appointment for 12 months by Transnet Freight Rail to simulate rail network capacity. 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. Eastern Mainline, Coal Backbone and Steelpoort lines completed thus far.</p>	2015	2016	R 2 100 000	Transnet Freight Rail Sediela Moshaba - 083 399 1684
<p>Majuba Rail Electrical Design</p> <p>Design for construction of the electrical traction system to be erected along the Majuba Rail Line from Ermelo to Majuba Power Station. Design packages include Part 1 – Overhead Traction Equipment, Part 2 – Traction Substations, and Part 3 – 88kV Switching Stations.</p>	2016	Ongoing	R 12 000 000	Eskom / Consultant to Ircon (Lead Contractor) Philip Grobbelaar – 083 455 6390
<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	R 1 400 000	Transnet Freight Rail Jesse Hill – 083 284 0857
<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	R 1 000 000	Transnet Group Planning and Sustainability Makhosini Shongwe – 083 560 3155
<p>Junior Coal Miner Study</p> <p>Study in the Mpumalanga region to identify, engage with, and classify potential customers to be serviced by TFR's coal system rail network. Work included assessment of condition and capacity of current supply chains, and potential/forecasted demand which TFR could target.</p>	2016	2017	R 500 000	Transnet Freight Rail / RSV Enco Brian Monakali – 073 237 7245

Project Description	Start date	End date	Value of Services in ZAR	Client and Contact Details
<p>Durban Metro Re-Signalling</p> <p>Replacement of the complete signalling system of the eThekweni Metro. EPC contract in joint consortium with Bombardier et al. R&H's responsibility is all rail engineering design aspects, including capacity and performance simulations with the use of OpenTrack software.</p>	2012	On Hold	R 75 000 000	PRASA / Bombardier Val Paramasivam – +46 73 448 0005
<p>National Railways of Zimbabwe – Rehabilitation Initiative</p> <p>Assistance to TFR to develop a country-wide rail operations model as part of the NRZ revitalisation programme. Conducted a 10-year demand assessment and developed a supporting operations model which included concept train schedules, maintenance and crewing strategy and infrastructure development schedule.</p>	2016	2016	R400 000	Transnet Freight Rail Nyameka Madikizela – 083 380 8749 Albert Links - 083 286 5131
<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	R 1 900 000	Transnet Group Planning and Sustainability Ryan Lewis – 084 751 7634
<p>Nkwalini Iron Ore Capacity Study</p> <p>Development of rail operations model and capacity simulations of Iron Ore to be transported from Nkwalini to Richards Bay</p>	2015	2016	R 350 000	Transnet Freight Rail Tshepo Motsie - 011 583 0686
<p>Nacala Corridor FEL 3 and FEL 4</p> <p>Feasibility study and design of green- and brownfields rail corridor development for coal export between Moatize and Nacala port, Mozambique. R&H formed part of international multidisciplinary consultant group, working vor Vale Coal Limitada. Took responsibility for operations, rolling stock, signalling and telecoms, and material quality management and construction support.</p>	2011	2014	R 15 000 000	Aurecon / Vale Coal Limitada Hennie Gouws – 079 875 2781
<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	R 2 200 000	Transnet Group Planning and Sustainability Denesh Reddy – 082 303 6082
<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	R 500 000	Transnet Freight Rail Brian Monakali – 073 237 7245

Project Description	Start date	End date	Value of Services in ZAR	Client and Contact Details
North Angola Railway Prefeasibility study for development of a 750km railway corridor between Luanda and Miconge (on Republic of Congo border)	2014	2017	R 3 800 000	Angolan Ministry of Transport Antone Abboud – +244 22 244 7461
Overvaal Tunnel FEL3 Study Design of the new double line Overvaal tunnel on the Coal Line to FEL3 level. R&H's scope entailed OHTE, lighting, signalling and telecommunications	2014	2015	R 6 000 000	Transnet Capital Projects / Aurecon André Wepener – 082 445 1614
Ore Line FEL2 Incremental Capacity Upgrade Study Design to FEL2 level a suitable upgrade solution for the Ore Line to incrementally increase capacity beyond 70Mtpa. R&H's scope entails GFB strategy, Rolling Stock strategy, OHTE, lighting, signalling and telecommunication	2014	2014	R 2 000 000	Transnet Capital Projects / Aurecon Drikus Swanepoel – 079 490 7844
2014-2016 LTPF Development Assistance Assist Transnet Group Planning with development of the Long Term Planning Framework (LTPF) for rail for two years	2014	2016	R 4 800 000	Transnet Group Planning and Sustainability Makhosini Shongwe – 083 560 3155
Revuboe Moatize Coal Siding Design Feasibility study and design of a new coal load-out siding in Moatize, Tete, Mozambique.	2014	2016	R 6 000 000	Minas de Revuboe Bryan Pearce – +258 21 49 8177
Gauteng Freight Ring FEL1 Study Development of 30-year expansion plan for Gauteng's Freight Ring between Pyramid South and Houtheuwel, including Rustenburg line to link to Swartruggens	2013	2014	R 3 400 000	Transnet Group Planning and Sustainability Dido Khoza – 073 148 4105
Sena Line Upgrade and Macuze OoM Study Order of magnitude (OoM) study to establish optimised rail operations and capacity for coal exports. Included: - Sena Line between Moatize and Beira - Greenfields line to new port at Macuze - Siding layout(s) Moatize	2013	2013	R 2 700 000	Rio Tinto Carlos Galego – 082 496 3643
Tivani Export Siding and Logistics (FEL1 and FEL3) 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	2013	2015	R 2 000 000	Tivani Mining Trevor Morris – 011 086 2454

Project Description	Start date	End date	Value of Services in ZAR	Client and Contact Details
Project Phoenix FEL1 FEL1 level study for upgrade of the existing Thabazimbi load-out siding to domestic and possible export destinations	2012	2013	R 6 500 000	Kumba Resources Eduan Pieterse – 012 679 2247
Ore Line FEL2 Upgrade to 82.5Mtpa FEL2 Study Design to FEL2 level a suitable upgrade solution for the Ore Line to increase throughput to 82.5Mtpa. R&H's scope entails service design, GFB strategy, crewing strategy, OHTE, lighting, signalling, telecommunication, rolling stock and maintenance planning	2012	2013	R 5 500 000	Transnet Capital Projects / Aurecon Dietrich Bredenkamp – 082 491 5813
2013 LTPF Development Assistance Assist Transnet Group Planning with development of the Long Term Planning Framework (LTPF) for rail across South Africa, to be published in 2013	2012	2013	R 2 000 000	Transnet Group Planning and Monitoring Makhosini Shongwe – 083 560 3155
Durban Rail in Port (DRIP) FEL1 Study 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	2012	2013	R 3 500 000	Transnet Group Planning and Sustainability Peet Benade – 083 290 2660
Mayoko Iron Ore Export Design Planning and implementation supervision of a rail iron ore export system from Mayoko to Pointe Noire, including perway, operations, rolling stock and S&T	2012	On Hold	R 25 000 000	Exxaro Services: Congo Jarrett Boltman – 012 307 3317
Passenger and Freight Rail System Interoperability Study 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	2012	2013	R 1 400 000	Transnet Group Planning and Sustainability Peet Benade – 083 290 2660
Limpopo Coal and Other Mineral Supply Chain FEL1 Study Railway supply chain study for new coal and magnetite customers in Limpopo province to export and domestic destinations	2012	2012	R 1 900 000	Transnet Group Planning and Sustainability Khuliso Tshiongo – 083 270 0710
Minnaar Siding Design of railway infrastructure for an upgraded loadout at Minnaar Mine	2011	2015	R 4 500 000	Xstrata Coal South Africa Sakkie Prinsloo – 082 319 0926
Glosam Siding Design and implementation of new manganese loadout siding at Glosam in the Northern Cape	2011	On Hold	R 13 700 000	PMG Mining Shirin Ismail – 011 326 0112

Project Description	Start date	End date	Value of Services in ZAR	Client and Contact Details
Sena Line Simulation Study Train service design and operations simulations on the Sena Line from Moatize to Beira, Mozambique	2011	2012	R 800 000	Rio Tinto Mozambique Martin Oldfield – +258 82 307 7364
Manganese and Iron Ore Export Study Demand and capacity analysis (including simulation) for manganese and iron ore exports to Salcor and Nqura	2011	2011	R 700 000	Trans Cape Concessions Hugh Courtney – 011 234 0109
Twefontein S&T Optimisation Design of signalling and telecoms system upgrade for Twefontein siding	2011	2011	R 4 000 000	Xstrata Coal South Africa Sakkie Prinsloo – 082 319 0926
CDC Electrification Design, specification, tender and contract management of 25 kV OHTE in siding and rail area lighting	2011	2011	R 2 500 000	Coega Development Corporation Gerhard Bester – 041 365 6467
Uranium Mine Bankable Feasibility Study Study for new mine and import/export logistics, linking with Trans Namib and Walvisbay / Swakopmund ports. Track, service design (and simulations) included in study	2010	2011	R 3 100 000	Swakop Uranium Koos Calitz – +264 6440 3361