

**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Stockhouse 11kV Installation	Supply, install, commission 2 X 11kV Motors Design, supply, install, commission 1 X 11kV Auto Transformer Design, supply, install, commission 11kV Switchgear Design, supply, install, commission PLC control system Design, supply and install power/control cabling	Vanderbijlpark	E, C&I	EPC	Metals	2012
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Basic Oxygen Furnace Fire Repair	Remove all damage cabling for BOF 1-3 New Cable routing and racking design New Lighting distribution design New UPS distribution design New MCC rooms layout design Supply and install new cable supports for BOF 1-3 (6km) Design, supply and install junction boxes Supply, install and terminate cables for BOF 1-3 (80km) Supply, install, commission Lighting distribution Supply, install, commission UPS distribution Supply, install, commission UPS Auto change over switch Supply, install, commission Instrumentation power distribution PLC software engineering on 9 PLC's Re-design and engineer PLC communication networks Supply, install and commission Medium Voltage switchgear	Vanderbijlpark	E, C&I	P&C	Metals	2013
Sierra Rutile Limited	Sierra Rutile Limited	Electrical Protection Upgrade	Install and Commission the Dredge and Wet Plant 4.16kV Secondary Switchgear Install and Commission the Dredge and Wet Plant 13.2kV Switchgear Install and Commission the 13.2kV Secondary Switchgear & NECR Refurbish Shore Dual VCB Vacuum Beakers Refurbish Dredge and Wet Plant Main Circuit breaker	Sierra Leone	E	EPC	General	2013
Sierra Rutile Limited	Sierra Rutile Limited	Sulphur Reduction Plant E&I Phase 1	MV Cable Installation from Power House 1 Transformers ( 2.5MVA, 50KVA & 10KVA ) Containerized MCC's Sub Distribution Boards AC Drives and Soft Starters New Control System ( Consisting of HMI and PLC's ) Field Instrumentation and Marshalling MV, LV ,Instrumentation and Network Cabling Cable Supports Plant Lighting General purpose power distribution	Sierra Leone	E&I	P&C	General	2013
Sierra Rutile Limited	Sierra Rutile Limited	Land Plant & Dry Mill Fines Upgrade	Containerized MV Switchgear – 2 Incomers & 7 Feeders Transformers ( 1.25MVA, 50KVA & 10KVA ) New LV Distribution Boards Upgrade Eight MCC's with E3 Relays AC Drives and Soft Starters New Control System ( Consisting of HMI and PLC's ) Field Instrumentation and Marshalling MV, LV ,Instrumentation and Network Cabling Cable Supports Plant Lighting General purpose power distribution.	Sierra Leone	E, C&I	P&C	General	2014
Abengoa Abeinsa	Abengoa Abeinsa	Water Pump Station	Basic Engineering, Detail Engineering, Software Development, Procurement, Construction, Commissioning The control system is based on a Siemens solution. The project include MCC, PLC and HMI, Instrumentation, Field Junction Boxes, Site Lighting, Earthing.	Pofadder	E, C&I	EPC	General	2013
SiVEST S.A (Pty) Ltd	SiVEST S.A (Pty) Ltd	Zindzi Project	Project Management Consulting Services for the supply, delivery offloading, installation, cabling, testing and commissioning of all electrical, control and instrumentation works.	Standerton	E, C&I	P&C	General	2013
Petro SA	Siemens (Pty) Ltd	Commissioning Support	Commissioning Support	Mosselbay	E	C	General	2013

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Hulamin	Hulamin	S6 Fire Damage Repair	Remove all damaged cabling Repair damaged cable supports Procure cabling Supply, install and terminate cables (5km)	Pietermaritzburg	E	P&C	General	2013
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	'High Pressure Boiler House ID Fan	Supply, Install and Commission of the following: -1x 1250KVA Transformer -1x 900KW Induction Motor -1x 690V Variable Speed Drive completed in panel - 1x Local Operator Panel - Refurbish one 3.3KV Circuit breaker - All Power Cabling - All Control Cabling	Vanderbijlpark	E	P&C	Metals	2014
Transnet Limited	Siemens (Pty) Ltd	Langlaagte Phase 3 Mechanical Defect Repair	Complete setting out, fabrication, installation, testing and commissioning of the various installations and related pipework and appurtenances Setting out of the Works prior to construction, supply, fabrication, installation, testing and commissioning of pipework and equipment Installation, testing and commissioning All non-destructive testing, including 100% radiography on welds, magnetic particle test and hydrostatic pressure test Leak test on all related flanged connections Updating and "As-Building"	Johannesburg	SMEIP	P&C	General	2014
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Replace 6.6kv Motors on A & B System	Supply one new drives for 375KW motors Supply one new 375KW 525V motors Each motor supply shall have a local lockable isolator Supply new 6,6kVAC, 525VAC, 220VAC, 110V AC/DC and other specified cables in areas where needed Re-route, join and extend old cables, if additional cable are to be supplied approval should be sought from ArcelorMittal Remove the old motors. Install the new VSD drives on new MCC Supply and install signal cables from VSDs to theN26 PLC Program the VSDs Disconnect and mark all cables, feeder name and wire numbers from old panel and motors. Reconnect cables to the new panels/drives and motors. Terminate all 6,6KVAC, 525VAC, 220VAC and 110V AC/DC cables Do cold and hot commissioning. Supply final drawings on CD as per standard of our drawing office (Autocad). Standards will be discussed and issued to successful tenderer. Supply minimum spares for normal operation.	Newcastle	E, C&I	P&C	Metals	2014
Abengoa Abeinsa	Abengoa Abeinsa	KAXU Solar 1 CSP 100MW PV Plant	Electrical and Instrumentation installation for a 100MW Power Generation Plant. Cable tray and support installation; Cable installation (Power and Instrumentation); Cable termination; Instrumentation calibration & installation; Electrical Cabinet and Instrumentation Junction Box mounting and installation; Provision of Commissioning support to Abeinsa EPC, the main project contractor. Power and Control cable, the cable tray, support structure installation and the field and cabinet termination of the Heat Tracing cables.	Pofadder	E&I	P&C	PV	2013
Group Five Construction (Pty) Ltd	Iberdrola Engineering and Construction South Africa (Pty) Ltd	Jasper 75MW PV Solar Plant	- PV modules interconnection. - Electrical boards installation and connection. - Wiring LV and MV cables laying, connection and labeling. - Earth Wiring laying and connection. - Wiring Communications cables and Fiber Optic laying, connection and labeling. - Testing and commissioning of the installation, except inverters, buildings, transformers, MV switchgears, Security System, Monitoring System and Weather Stations.	Postmasburg	E	C	PV	2014

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Makeni	Makeni	Electrical and Instrumentation Installation, Construction and Commissioning Assistance	<ul style="list-style-type: none"> <li>- Cable support</li> <li>- Cabling, MV, LV, network and Instrumentation</li> <li>- Electrical cabinets</li> <li>- Earth Wiring laying and connection.</li> <li>- Plant lighting</li> <li>- Plant commissioning assistance</li> <li>- Installation Quality control</li> <li>- Site health, safety and environmental compliance</li> </ul>	Sierra Leone	E	C	General	2014
Abengoa Abeinsa	Abengoa Abeinsa	In House Fabrication of Cabinet Structural Bed Frames and Condensate Pots For Up To 16 000Pa	<ul style="list-style-type: none"> <li>- Engineering and Fabrication drawings</li> <li>- Design verification according to ASME standards</li> <li>- WPS &amp; PQR Qualifications</li> <li>- Welder Qualifications</li> <li>- Material Procurement and Certification</li> <li>- Fabrication</li> <li>- NDT testing (X-ray &amp; Die-pen testing)</li> <li>- AIA approval</li> <li>- Hydro Testing</li> <li>- Sub-contractor Management (X-ray, AIA, Hydro testing)</li> </ul>	Pofadder	M&P	EPC	Fabrication	2014
Transnet SOC Ltd	Transnet SOC Ltd	Tarlton Depot Project	<p>The Fabrication, Installation, Testing and Commissioning Of the Manifold Modifications Required For the Siemens Telecontrol Upgrade</p> <ul style="list-style-type: none"> <li>- WPS, PQR and Welder Qualifications to ASME standards.</li> <li>- Material Procurement &amp; Certification</li> <li>- Fabrication including NDT testing (X-rays)</li> <li>- Sandblast &amp; Painting</li> <li>- Installation on site includes 1/2" to 10" piping, valves, safety valves, pipe supports, grouting.</li> <li>- Hydro Testing on site.</li> <li>- Sub-contractor Management (X-ray, AIA, Hydro testing)</li> <li>- Commissioning assistance</li> <li>- Instrument Calibration and Testing</li> </ul>	Tarlton	M&P	P&C	Fabrication	2014
Omnia Group Pty Ltd	Omnia Group Pty Ltd	Electrical Drawings Updated	<ul style="list-style-type: none"> <li>- Updated drawings for PGAN &amp; Nitric Acid Plants</li> </ul>	Sasolburg	E	ENG	O&G	2014
Sasol South Africa Ltd	Sasol South Africa Ltd	Polymers PP2 Revamp	<ul style="list-style-type: none"> <li>VSD Panel Supply and Installation 0.75KW and 22KW</li> <li>Cable Terminations</li> <li>Engineering and commissioning</li> </ul>	Secunda	E	EPC	O&G	2015
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	New Distribution Board at SMP Substation OSM for Ladle Furnace 3 at OSM	<ul style="list-style-type: none"> <li>Disconnect Panel at ESM</li> <li>Transport Panel to SMP substation</li> <li>Installation in SMP</li> <li>Commissioning</li> <li>Cable racking</li> <li>Cables from transformer to panel supply installation and connecting</li> <li>Stripping of old connections between old board and transformers</li> <li>Re connect workshop supply at ESM</li> </ul>	Vanderbijlpark	E	P&C	Metals	2015
Solar Reserve	Solar Reserve	Kuilville School	<ul style="list-style-type: none"> <li>Rooftop PV Solar installation</li> <li>Design, Install and Commission a turnkey 42.48KW photovoltaic rooftop plant consisting of only the equipment as mentioned in this proposal which includes:</li> <li>· Photovoltaic modules</li> <li>· Inverter</li> <li>· Substructure</li> <li>· Cables, cable sleeves and trenching</li> <li>· Equipotential bonding.</li> <li>· Temperature, anemometer and an irradiance sensor.</li> </ul>	Northern Cape	E, C&I	Sub EPC	PV	2015
Bombela Operating Company (PTY) Ltd	Bombela Operating Company (PTY) Ltd	STMS Project	Engineering Assistance to ASWM Interface for All Stations Lift & Escalators Availability	Johannesburg	E	ENG	General	2015
Abengoa Abeinsa	Abengoa Abeinsa	Supply of Low Voltage Cables	Supply and Deliver Low Voltage Cables to Site	Pofadder	E	P&C	General	2015

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ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Hot Strip Mill – R1 Screwdown Drive Project	Design, engineer, supply, install and commission 2 new drives DC Machine – 2 individual drives and control Dynamic braking, for a controlled stop of the drive in a trip condition new pulse tachometers and cabling . Profibus capabilities	Vanderbijlpark	E, C&I	EPC	Metals	2015
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Hot Strip Mill – R2 Front End Replacement Drives	<ul style="list-style-type: none"> <li>• 12 Pulse ABB DC Armature Drive for R2 Top and Bottom Motor</li> <li>• Two quadrant DC Drive for Field Supply for R2 Top and Bottom Motor</li> <li>• Re-Routing of Motor Field Cables</li> <li>• Extension of Field Supply Cables</li> <li>• No Provision is made for PLC or Panel Views</li> </ul>	Vanderbijlpark	E, C&I	P&C	Metals	2015
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Siemens PLC Equipment	Design, Manufacture, Supply, Deliver, Installation and Commissioning of a new Siemens S7 - 1500 PLC	Vereeniging	E, C&I	EPC	Metals	2015
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Supply and Deliver ROT5 VSD Drives	Supply of: 7 x ACS880 Drives (Including Drive Software)	Vanderbijlpark	E	EPC	Metals	2015
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	A61 Cooler Fan Electrics	<p>We have offered a turnkey solution inclusive of the following;</p> <ul style="list-style-type: none"> <li>• 3300V/690V Transformer</li> <li>• LV VSD</li> <li>• LV 690V 6Pole Motor</li> <li>• MV and LV Cables</li> <li>• PLC as Stand Alone System with no Interface to existing PLC System</li> <li>• MCC DOL Buckets</li> <li>• Junction Box</li> </ul>	Vanderbijlpark	E	P&C	Metals	2015
Solar Reserve	Solar Reserve	Solar Irrigation System Project	<ul style="list-style-type: none"> <li>* Drilling of a new Bore hole to a depth of 40 meters. A casing will also be installed inside the borehole shaft to prevent the borehole for closer.</li> <li>* Installation of 18, 295Wp solar panels on the roof of the school complete with sub-structure.</li> <li>*Altivar 3 kW VSD solar pump drive complete in enclosure.</li> <li>*All associated cabling</li> <li>*2.2kW Borehole pump and motor complete with motor protection unit</li> <li>*Irrigation system complete with Hunter 12 Zone irrigation controller and pop-up spray nozzles and Hunter Solenoid Valves. The soccer field irrigation has been removed as requested.</li> </ul>	Northren Cape	E	P&C	PV	2015
Netcare 911 (Pty) Ltd	Netcare 911 (Pty) Ltd	Rooftop Solar PV Rollout Phase2 – Alberlito	Supply, design and installation of 419.27kWp Integration with monitoring system Lightweight and high quality rooftop substructure Installation Quality control Site health, safety and environmental compliance	Dolphin Coast, Kwazulu Natal	E	Sub EPC	PV	2015
Netcare 911 (Pty) Ltd	Netcare 911 (Pty) Ltd	Rooftop Solar PV Rollout Phase2 - Olivedale	Supply, design and installation of 419.27kWp Integration with monitoring system Lightweight and high quality rooftop substructure Installation Quality control Site health, safety and environmental compliance	Johannesburg	E	Sub EPC	PV	2015
Gulf Aluminium Rolling Mill Co. B.S.C.(c)	Gulf Aluminium Rolling Mill Co. B.S.C.(c)	Upgrade of CTL #1 Line PLC	<ul style="list-style-type: none"> <li>Supply of Main PLC Chassis</li> <li>Supply of remote PLC Chassis</li> <li>Siemens S7-1500 PLC equipment</li> <li>WINCC HMI Stand Alone</li> <li>Ethernet switch for ethernet network</li> <li>All PLC and HMI software</li> <li>All relevant drawings of the new PLC control system</li> <li>HMI training manual</li> <li>Plant specific training</li> <li>3 Comfort panels at Local Control Stations</li> <li>Ethernet Network cables for new equipment</li> <li>New LOP Panels &amp; Control Desk</li> </ul>	Bahrain	E, C&I	EPC	General	2015

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Jasper Power Company (RF) (Pty) Ltd	Jasper Power Company (RF) (Pty) Ltd	O&M Jasper Roof Top PV Solar	Design, Install and Commission a turnkey 21.24kWp (installed power) photovoltaic rooftop plant consisting of only the equipment as mentioned in this proposal which includes: <ul style="list-style-type: none"> <li>Photovoltaic modules</li> <li>Inverter</li> <li>Substructure</li> <li>Cables, cable sleeves and trenching</li> <li>Equipotential bonding.</li> <li>Temperature, anemometer and an irradiance sensor.</li> </ul>	Danielskuil	E, C&I	Sub EPC	PV	2015
Phillip Bronkhorst	Phillip Bronkhorst	Solar PV Roof Top	Design, Install and Commission a turnkey 60kWp photovoltaic rooftop plant consisting of only the equipment as mentioned in this proposal which includes: <ul style="list-style-type: none"> <li>Photovoltaic modules</li> <li>Inverter</li> <li>Substructure</li> <li>Cables, cable sleeves and trenching</li> <li>Equipotential bonding.</li> <li>Temperature, anemometer and an irradiance sensor.</li> </ul>	Deneysville	E, C&I	Sub EPC	PV	2015
Sterling and Wilson Solar Ltd.	Sterling and Wilson Solar Ltd.	Solar PV Project Manpower	50MWp Solar PV Project Manpower Loading	Philippines	E, C&I	Services	PV	2015
Netcare 911 (Pty) Ltd	Netcare 911 (Pty) Ltd	Rooftop Solar PV Rollout Phase2 ST. ANNES	Design, Supply and Installation of a 970.24kWp PV System Integration with monitoring system Lightweight and high quality rooftop substructure Installation Quality control Site health, safety and environmental compliance Equipment: - PV Modules – 3096 x 315Wp 72 cell poly-crystalline Jinko Solar Modules - Inverters – 20 and 25kW STP SMA (Inverters are SMA Tripower range) - Substructure – LeadEPC Design Roof Bra	Johannesburg	E	Sub EPC	PV	2015
Netcare 911 (Pty) Ltd	Netcare 911 (Pty) Ltd	Rooftop Solar PV Rollout Phase2 - MILLPARK	Supply, design and installation of 135,04kWp Integration with monitoring system Lightweight and high quality rooftop substructure Installation Quality control Site health, safety and environmental compliance Equipment: - PV Modules – 422 x 320Wp 72 cell poly-crystalline Jinko Solar Modules - Inverters – 25kW STP SMA (Inverters are SMA range) - Substructure – Valsa Aluminum Structure	Johannesburg	E	Sub EPC	PV	2015
Transnet SOC Ltd	Transnet SOC Ltd	Socket on Strainer Dome	Socket on Strainer Dome	Tarlton	M&P	P&C	General	2016
Cronimet Chrome Mining SA (Pty) Ltd	Cronimet Chrome Mining SA (Pty) Ltd	Thaba Mine Cable Project	Supply and Installation of : 500mm single core cable Cable Ladder Trenching Panel installation	Thabazimbi	E	P&C	General	2016
Novo Domus Holdings (Pty) Limited	Novo Domus Holdings (Pty) Limited	TSR Roof Top Solar PV Project	Full Turnkey Design supply and install: Solar Panels Substructures Cabling Monitoring equipment Cable Supports	Midrand	E&I	Sub EPC	PV	2016
Transnet SOC Ltd	Transnet SOC Ltd	Tarlton Depot Project	Fit ¾ Inch Sockets on Road Loading Strainer Covers	Tarlton	M&P	P&C	Fabrication	2016
Eskom Holdings SOC Ltd	Eskom Holdings SOC Ltd	Kusile Power Station E&I Installation for Unit 1 And 2	- Integration Management - Trunk Cable Installation - Instrumentation Installation and QC Checks - Supervision - Direct Field Labour - Material Supply	Delmas, Mpumalanga	E&I	P&C	General	2016
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	BOF Ladle Furnace Fire Damage	Supply and Installation of : - Cables - Cable Ladder - Panel installation	Vanderbijlpark	E	P&C	Metals	2016

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ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Brine Treatment	Design, Supply And Install: - MCC - cabling - Transformers - Cable Ladder - Lighting - PLC - Pneumatic Tubing - Junction Boxes	Vanderbijlpark	E	EPC	Metals	2016
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Coarse Particle Separator	Supply and Install - Rolling - Expansion Belows - Load Spring Hangers - Transport - Paint	Saldanha	E	P&C	Metals	2016
Netcare 911 (Pty) Ltd	Netcare 911 (Pty) Ltd	Solar PV Turnkey Rollout Project - Pretoria East	Design, Supply and Installation of a 970.24kWp PV System Integration with monitoring system Lightweight and high quality rooftop substructure Installation Quality control Site health, safety and environmental compliance Equipment: - PV Modules – 3096 x 315Wp 72 cell poly-crystalline Jinko Modules - Inverters – 20 and 25kW STP SMA (Inverters are SMA Tripower range) - Substructure – LeadEPC Design Roof Bracket combined with PowAr Snap® anti-theft module clips - Lightweight and high quality rooftop substructure	Pretoria	E	EPC	PV	2016
Mustek Limited	Mustek Limited	70.85KWP Rooftop Installation	Solar modules (325wp) installations Sub-structure supply, Sub-structure installation, Inverters installation, Electrical reticulation supply costs electrical reticulation installation Cables supply costs Cables installation Trenches / trays supply Trenches /trays installation costs solar design & drawings/ approval	Cape Town	E	EPC	PV	2016
Building Energy South Africa (PTY) LTD	Building Energy South Africa (PTY) LTD	Tororo Uganda Solar PV 10MW Project	Engineering, Procurement and Construction (EPC) For Photovoltaic Plant Design Full Turnkey: - Integration with monitoring system - High quality ground mount substructure Design supply and install: - Substructures - Cabling - Monitoring Equipment - Cable Supports - Grid Connection - Grid Connection Study - Civil Engineering - Civil Construction	Tororo, Uganda	E&I and Civil	EPC	PV	2017
Sasol South Africa Ltd	Sasol South Africa Ltd	Ash Plant PLC Replacement Project	Turnkey, Siemens, PCS7 solution for the implementation of a new PLC and SCADA system to replace the redundant existing equipment. The project include the following: - PLC Hardware and software - PLC Panels - PLC Marshalling Panels - Fibre Optic Cabling - Construction - Commissioning	Secunda	E, C&I	EPC	O&G	2017



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ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	CPL#3 Multidrive Project	Engineering, Supply, Installation and Commissioning of the - Multi-drive system comprising of 2 Regenerative Units supplying common DC Bus with 17 inverters ranging from 75kW up to 500kW - ABB ACS 880 Multi-drive equipment was used - Braking Resistors were provided to stop the Process Line under power failure conditions - Load sharing Software was developed to ensure tension in the strip remains constant under line operating conditions - The project was implemented over a 10 day Shutdown period	Vanderbijlpark	E, C&I	EPC	Metals	2017
HOSAF a division of KAP Diversified Industrial (Pty) Ltd	HOSAF a division of KAP Diversified Industrial (Pty) Ltd	Hosaf Expansion Project	Electrical, Control and Instrumentation Installation Works	Durban	E, C&I	P&C	General	2017
Building Energy SA (Pty) Ltd	Building Energy SA (Pty) Ltd	3kVA Embedded Photovoltaic Generator Rooftop Installation at the Italian Consulate	Detailed Engineering and PV Plant Design Supply of PV Modules, String Inverters, Combiner Boxes, Mounting Systems, DC & AC Cabling, Cable Trays, Monitoring & Control Equipment, LV Swithgear and Terminations All relevant Civil, Mechanical and LV Electrical Work All Project Management All HSE & QC Management Compliance with all relevant legal codes and standards Structural Engineer Evaluation COC	Cape Town	E, C&I	EPC	PV	2017
Jed Borril c/o Zola Mkumla Anchor House	Jed Borril c/o Zola Mkumla Anchor House	Rhenosterberg Rural Area PH4 & PH5	Supplying and installing a total of 25 Photovoltaic systems and 25 solar geysers in the Rhenosterberg Townships consisting of the following items per house: • Photovoltaic Module • 120mm – 150mm x 5.4 Wooden Poles • Inverter • 2 x Batteries • 2 x Battery Boxes • DB Board • Plug Sockets • Stand for Inverter / Battery • 3 x Lights Inside Building • 1 x Light Outside Building • 110L Solar Geyser	Northern Cape	E, C&I	P&C	PV	2017
Netcare 911 (Pty) Ltd	Netcare 911 (Pty) Ltd	Solar PV Turnkey Rollout - Phase 1	• Photovoltaic Plant Design • Engineering, Procurement and Construction. • Integration with monitoring system • Lightweight and high quality rooftop substructure Photovoltaic Solar plant	Kroonstad	E, C&I	EPC	PV	2017
Netcare 911 (Pty) Ltd	Netcare 911 (Pty) Ltd	Solar PV Turnkey Rollout - Phase 1	Supply, design and installation of 135,04kWp Integration with monitoring system Lightweight and high quality rooftop substructure Installation Quality control Site health, safety and environmental compliance Equipment: - PV Modules – 422 x 320Wp 72 cell poly-crystalline Jinko Solar Modules - Inverters – 25kW STP SMA (Inverters are SMA range) - Substructure – Valsa Aluminum Structure	Krugersdorp	E, C&I	EPC	PV	2017
Netcare 911 (Pty) Ltd	Netcare 911 (Pty) Ltd	Solar PV Turnkey Rollout - Phase 1 (Pholoso)	Supply, design and installation of 231,8kWp Integration with monitoring system Lightweight and high quality rooftop substructure Installation Quality control Site health, safety and environmental compliance Equipment: - PV Modules – 875 x 265Wp 60 cell poly-crystalline Jinko Solar Modules - Inverters – 25kW STP SMA (Inverters are SMA range) - Substructure – LeadEPC Steel Structure	Polokwane	E	EPC	PV	2017

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ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Gantry Pot for New Crane	Installation and supply of the new crane gantries and associated reinforcements required for the installation. Responsibilities include: - Manufacturing - Inspection and Testing - Supply, and Procurement - Transporting and delivering to site - Off-load, storage and safekeeping - Building and Constructing - Assembly and Installation - Quality Assurance - Commissioning - Safety Management and Equipment	Vanderbijlpark	S, M&P	P&C	Metals	2018
Lead EPC Ltd	Lead EPC Ltd	2018 Olympic Winter Games Korea	Engineering done for the Olympic Games 2018 in South Korea included: Load flow Analysis Voltage Drops Short Circuit Levels Protection Coordination, Discrimination Study Grounding, Earth Mat Design	South Korea	E	ENG	General	2017 / 2018
Gulf Aluminum Rolling Mill Co. B.S.C.(C) (GARMCO)	Gulf Aluminum Rolling Mill Co. B.S.C.(C) (GARMCO)	Hot Mill Profile Gauge Upgrade	Upgrading the existing PDA system: Upgrading of the current Licenses ibaPDA Interface PLC Explorer Ethernet Upgrade Supply and Install PLC cards Supply and Install Ethernet Switches	Bahrain	E	EPC	Metals	2017
Sasol South Africa Ltd	Sasol South Africa Ltd	De-bottlenecking of Power Supply	Complete Design, Detail Engineering, Procurement, Quality assurance/control, Expediting and Preparation of all specified project documentation of the materials in accordance with the scope. Civil Building Expansions Civil Work for Transformer Bay Move Transformers to new bay Design Supply and Install MCC Panel Supply and Install Cables Supply and Install Busduct 6400A Supply and Install Lighting and Small Power Supply and Install HVAC Supply and Install Battery Tripping Unit Supply and Install Earthing System Soil resistivity Testing Trenching	Secunda	E, C&I	EPC	O&G	2017
Twinsaver Group	Sivest S.A (Pty) Ltd	Project Paradigm TM5 Twinsaver Tissue	Electrical Supply and Install of the following: MV Cables and Terminations and Joints LV Cables and Terminations Cable racking Lighting and Small Power Installation of DB Panels Installation of Junction Boxes Installation of Lights	Vereeniging	E	P&C	General	2017
Sasol South Africa Ltd	Sasol South Africa Ltd	PP1 Peroxide Feeding System	Design, Supply and Install of the PP1 Peroxide Feeding System: Flowmeters Control Valves Mechanical and Piping Work LV Cables and Terminations Pneumatic hook up material	Secunda	E, C&I	EPC	O&G	2017



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Megchem (Pty) Ltd	Megchem (Pty) Ltd	SERPL Sasol C&I Synthol Energy Recovery Project	Provide Control and Instrumentation Engineering: Attending Meetings SIL Determination Excluded HAZOP Study 30% Model Review Risk Review MFD Review Constructability Review C&I Design Philosophy Technology Selection Instrument Data Sheets Instrumentation Location Plan Creating BOQ's SDE Review	Secunda	C&I	ENG	O&G	2017
Solar Reserve	Solar Reserve	Danielskuil Solar Street Lights	Supply and Installation of Solar Street Lights	Danielskuil	E	P&C	PV	2017
Eskom Holdings SOC Ltd	Eskom Holdings SOC Ltd	Lethabo Power Station - Water Flowmeters	Supply, delivery, installation, functional testing and in-situ verification of all flow meters and level measurement instrumentation in all major water streams, dams, reservoirs and tanks at Lethabo Power Station. Supply steelwork Fabrication of spool pieces Installation of Spool pieces Supply of instrumentation Installation of instrumentation Supply and Install cables Supply and Install Junction Boxes Supply and install Earthing Supply and Install cable racking Excavations of trenches	Lethabo	E, C&I	EPC	General	2017
Sasol South Africa Ltd	Sasol South Africa Ltd	SCO Nitro – Fertilisers dam sluice automation	Instrumentation and Electrical Concept Packages for Nitro Sluice Gate Automation  1. Newly installed supply protection devices in existing MCC's 2. The supply cables to the 525VAC Distribution boards 3. The 50kVA Transformers 4. The 230VAC Lighting circuits 5. The 115VAC Analyser Shelter supply old equipment will be moved Engineering Site visits • As building for queries on existing documentation • Civil works as per our pricing schedule and attached drawings • FAT & SAT procedures • Start-up spares list • Commissioning procedure • Hardware FAT • Hardware SAT • Quality check, checkout and handover procedures • COC's • Removal of old equipment • SHE files • Arranging of permits. • Use of existing infrastructure • Functional specifications	Secunda	E, C&I	ENG	O&G	2017

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Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Transnet SOC Ltd	Transnet SOC Ltd	Waltloo Fuel Terminal Installation	Design, Engineering, Supply, Manufacturing, Erection, Application, Delivery, Handling, Hauling, Unloading, Installation, Construction, Assembly, System Testing, Calibration, Configuration, Quality Assurance, Loop Testing and Commissioning of all Instrumentation, Actuators, Motors, Equipment, Cabling, Racking and Trenching Reticulation associated with the Automation of WAO and replacement of the Fire System Design, Supply, Installation and Commissioning and Certification of Cathodic Protection Systems on the Incoming Pipelines Design, Supply, Installation and Commissioning of a Safety Earthing and Lightning Protection System Repair of existing <i>Instrumentation, Actuators, and Motors currently installed.</i> Certification of IS Loops Supply and Installation of Fire Fighting Panels	Pretoria	E, C&I	EPC	General	2017
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Upgrade of Stitche	The replacement of old and design, supply and installation of a Stitche on the existing Organic Coating line (Paint Line) at Cold Mills South at ArcelorMittal South Africa Vanderbijlpark Works, including: engineering, supply, erection, supervision, and commissioning of the Stitche on the existing Organic Coating line (Paint Line) at Cold Mills South	Vanderbijlpark	E, C&I	EPC	Metals	2017
Bellow Weld (Pty)	Bellow Weld (Pty) Ltd	Welding of Bellows	28 x 200NB Bellows to be weld with Third Party Inspections	Randvaal	S, M&P	Services	Fabrication	2018
PICKO Consulting cc	PICKO Consulting cc	PICKO Briquette	Procurement of equipment Fabrication of sheet metal work Fitment of all equipment in their respective panels Wiring of all equipment in their respective panels Equipment, wire and panel labels FAT Testing of panels Redlined drawings QCP Documentation Handover data pack of manufactured panels	Vanderbijlpark	S, M&P	Services	Fabrication	2018
Sasol South Africa Ltd	Sasol South Africa Ltd	Installation of High Voltage Pulse Energisation Controllers	<ul style="list-style-type: none"> <li>• Removal and transporting of two (2) redundant panels (PLC and Hopper Level Alarm panels).</li> <li>• Supply and install 525VAC 50ka Switchboard</li> <li>• Supply, installation, jointing and terminating of LV and control cables</li> <li>• Fire proofing of cable exits</li> <li>• Rerouting of existing cables</li> <li>• New false floor structure</li> <li>• Bonding of the 525V switchboard to safety earth network</li> <li>• Removal and transporting of six (6) existing control panels</li> <li>• Installation, Site testing and commissioning of six (6) free issued control panels</li> <li>• Installation, Site testing and commissioning of two (2) free issued auxiliary control panels.</li> <li>• Earthing of control panels</li> <li>• Supply and installation of new cables</li> <li>• The removal and transporting of existing six (6) Transformer-Rectifier sets</li> <li>• Installation, Site testing and commissioning of six (6) free issued HVPE T/R sets.</li> <li>• Installation of six (6) drip oil trays for new transformer rectifiers</li> <li>• Supply and installation of six (6) HV bus ducting and tubing</li> <li>• Supply and installation of new cables from the substation to the ESP roof</li> <li>• Supply and installation of new cable trays from the substation to the ESP roof</li> <li>• Earthing of new structures and equipment</li> <li>• Modification of the existing structure on the roof of the ESP</li> <li>• Supply and installation of new crawl beams on the roof of the ESP</li> <li>• Design, supply and installation of sunroofs for each T/R set</li> <li>• Fire proofing of all substation cable entries and exits</li> <li>• Bonding of the new equipment to safety earth network</li> </ul>	Secunda	E, C&I	EPC	O&G	2018

**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Sasol South Africa Ltd	Sasol South Africa Ltd	Fire and Gas Detection	Smoke Detection and Activation of Fire Doors An automated PA system to warn occupants of fire or gas Gas detection at the designated areas Activate the HVAC dampers to close in case of an emergency Replace existing Honeywell BMS Provide PC's for the Mimic Display at the allocated areas E-PIT/Vertiscan Handy scan Verification on external defects Ultrasonic Wall Thickness measurements spot check 1 Team Analysis of results and all reporting	Secunda	E, C&I	EPC	O&G	2019
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Paint Line Automation	Design, Supply, Manufacture, Delivery to site, Offloading, Handling, Installation and Commissioning of the following: - 1 AC Motor - 1 Rockwell PwerFlex VSD including cabinet - 1 PLC cabinet included Rockwell PLC equipment - 1 Entry Operating Station with a HMI loacted near the stitcher - 2 FIFE Centre Guide Systems - Instruments for the Semi Automation operation of the Entry Section - Installation of 2 free issued Taylor Winfield strip centering units - The moving of the deburring roll	Vanderbijlpark	E, C&I	EPC	Metals	2018
Kalkbuk Trust	Kalkbuk Trust	Renosterberg Rural Houses Phase 2	Rural Rooftop PV Solar installation Design, Install and Commission a turnkey photovoltaic rooftop plant consisting of only the equipment as mentioned in this proposal which includes: · Photovoltaic modules · Inverter · Substructure · Cables, cable sleeves and trenching · Equipotential bonding. · Temperature, anemometer and an irradiance sensor.	Northern Cape	E, C&I	P&C	PV	2018
Sasol South Africa Ltd	Sasol South Africa Ltd	MCC 5100 Replacement	Turnkey EPC project for the: -Engineering -Procurement -Construction  of two MCC's to be replaced in Sasolburg	Sasolburg	E, C&I	EPC	O&G	2018
Solar Reserve	Solar Reserve	Postmasburg Netcare Hospital	Rooftop PV Solar installation Design, Install and Commission a turnkey photovoltaic rooftop plant consisting of only the equipment as mentioned in this proposal which includes: · Photovoltaic modules · Inverter · Substructure · Cables, cable sleeves and trenching · Equipotential bonding. · Temperature, anemometer and an irradiance sensor.	Posmasburg	E, C&I	EPC	PV	2018
Kalkbuk Trust	Kalkbuk Trust	Renosterberg Rural Houses Phase 8	Rural Rooftop PV Solar installation Design, Install and Commission a turnkey photovoltaic rooftop plant consisting of only the equipment as mentioned in this proposal which includes: · Photovoltaic modules · Inverter · Substructure · Cables, cable sleeves and trenching · Equipotential bonding. · Temperature, anemometer and an irradiance sensor.	Northern Cape	E, C&I	EPC	PV	2018
Mustek Limited	Mustek Limited	61,88kWp Rooftop Solar Installation	Turnkey solution inclusive of the following: • Photovoltaic Plant Design • Engineering, Procurement and Construction. • Integration with monitoring system • Lightweight and high-quality rooftop substructure	Midrand	E	EPC	PV	2018

**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Premier FMCG (Pty) Ltd	Premier FMCG (Pty) Ltd	Premier Foods Blue Ribbon	Supply, design and installation of 297kWp Integration with monitoring system Lightweight and high quality rooftop substructure Installation Quality control Site health, safety and environmental compliance Equipment: - PV Modules – 330Wp Jinko Solar Modules - Inverters – SMA Core 1 STP50-40 Inverters - Substructure – fixed tilt 10°- 30°	Potchefstroom	E, C&I	EPC	PV	2018
Transnet SOC Ltd	Transnet SOC Ltd	Coalbrook Pump Station Fire Damage Repair (Electrical, Instrumentation and Civil)	Design, engineering, supply, manufacture, erection, application, delivery, handling, hauling, unloading / receiving, installation, construction, assembly, system testing, quality assurance and commissioning of all instrumentation, actuators, equipment, cabling, racking reticulation associated with the Electrical, Instrumentation and Civil Portion of the Repair of the Coalbrook Pump Station	Sasolburg	C, E, C & I	P&C	General	2018
Plant Design Project Services (PDPS)	Plant Design Project Services (PDPS)	Salty Water Pit Load Reduction	Resources to assist with C&I Engineering Elec. Engineering Snr Draughtsman	Secunda	E, C&I	ENG	O&G	2018
Sasol South Africa Ltd	Megchem (Pty) Ltd	Fire & Gas @ Unit 230/030 at Chloride Theaters Project	1) Compile a Detailed Engineering and Design Package for the Fire and Gas as well as the Electrical Work of the Chloride Treater Project for Units 030 and 230, to a cost effective, safe and reliable operation in fulfilment of the scope of work, and issue an Approved for Construction design package, inclusive but not limited to the following. 2) Review the Basic Engineering Package. 3) Obtain Drawings and information from the Sasol system. 4) Attendance and participation in the Project Kick-off meeting as well attendance and participation of technical and progress meetings. 5) Attend and participate in all reviews, inclusive of 90% Model Review. 6) DB Schematics and connection diagrams. 7) Earthing Layouts. 8) Equipment lighting layouts. 9) Technology selection (New data sheets) 10) Detailed cable and wire schedules and terminations. 11) Update the Hazard Area Classification Drawing from information supplied by Sasol. 12) Compile Tagged Equipment list. 13) Compile Equipment data sheets. 14) Compile a drawing list. 15) Lighting study (LUX Levels). 16) Field verification and as-built drawings for detail design. 17) Engineering and Design for Fire and Gas. 18) Squad checks. 19) Generate complete set of AFC Drawings, and submit final AFC documentation. 20) Design report.	Secunda	E	ENG	O&G	2018
METKA EGN	METKA EGN	10MW Ground Mounted Single Axis Tracker PV Plant	Installation of a 10MWp Single Axis Tracker PV System Design and construction for civil works Ground clearing, Roads, Fencing, storm water drainage etc. O&M Building Inverter Bases Construction of ground mounted substructure. Installation of AC and DC cabling Installation of MV cabling Installation of security system Fiber Installation, Splicing and commissioning HSE & QA/QC	Bifulubi, Uganda	C, E, C & I	EPC	PV	2018 / 2019
Scatec	Scatec	40,6MW Single Axis Tracker PV Plant	Mechanical and Electrical Installation of a 40,6MWp Single Axis Photovoltaic System Mechanical Installation E&I Supply and Installation for the following MV, LV / DC Cabling Inverters, RMU and Switching Station Lighting Protection System Design, supply and construction of Security System. Fiber Installation, Splicing and commissioning Installation Quality control for entire project Manage all Site health, safety and environmental compliance	Mocuba, Mozambique	E, C&I	EPC	PV	2018 / 2019

**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Sasol South Africa Ltd	Sasol South Africa Ltd	Replacement of K-TRON at PP2	Detail Engineering and Design MFD/P&ID Mark-ups Management and co-ordination of Procurement Quality Assurance during construction on all manufacturing, installation and construction Works Management of FAT and SAT Assistance with commissioning Compilation of handover packages As-built documentation All deliverables as described herein	Secunda	E, C&I	EPC	O&G	2019
Gulf Aluminum Rolling Mill Co. B.S.C.(C) (GARMCO)	Gulf Aluminum Rolling Mill Co. B.S.C.(C) (GARMCO)	Holding Furnace Upgrade	Design, Manufacture, Supply, Supervision of Installation and Commissioning of the complete upgrade to Garmco's Cut to Length 1 Line, along with all the Mechanical, Electrical Control, and Instrumentation Equipment necessary for safe, reliable and efficient operation.	Bahrain	E, C&I	EPC	Metals	2019
Scaw South Africa (Pty) Limited	Scaw South Africa (Pty) Limited	Meltshop 3 Fire Damage	Project Co-ordination Task assessment and scope of works Procurement and supply of equipment Engineering Building of panels and junction boxes PLC engineering and instrumentation Construction including 33kV installation of switchgear, low voltage cabling & instrument cabling Commissioning. .	Germiston	E, C&I	P&C	Metals	2019
Siemens (Pty) Ltd	Siemens (Pty) Ltd	Blower Ducting	Fabrication, Installation and Supply of blower ducting.	Vanderbijlpark	SMEIP	P&C	Metals	2019
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Ladle Burner Structures	Supply, Installation & Manufacturing and Repair of 3 Ladle Burner Support Structures complete with a Burner Hood.	Vanderbijlpark	S, M&P	P&C	Metals	2019
Sasol South Africa Ltd	Sasol South Africa Ltd	Surge Blower Protection Project	Multidiscipline Engineering for the: Replacement of control valves Annubar's and anti-surge controllers Upgrading the power supply and the Installation Commissioning and Testing of a new Surge Control System	Secunda	SMEIP	ENG	O&G	2019
Sasol South Africa Ltd	Sasol South Africa Ltd	AN & EXPLOSIVE PUMPS	Multi Discipline Basic Engineering Package for the Protection Systems on all AN Pumps	Secunda	P,M, E, C&I	ENG	O&G	2019
Water Utilities Corporation	KNBC – EPC JV (Pty)Ltd	Pump Station Upgrade	Refurbishment of the North South Carrier Pump Station 0.	Botswana	SMEIP	P&C	General	2019
Danieli Automation S.p.A	Columbus Steel	Electrical Installation at Steel Making Factory	INSTALLATION AND ASSEMBLY OF MACHINERY / FITTINGS / EQUIPMENT Verification of existing foundations after removal of existing equipment. Execution of coring (or small demolition) for the routing of new cables to new motors Electrical erection punch list clearance Lid placement on the cable ways and other areas envisaged by the project Closing of all the field mounted electrical equipment (switchboards, control boxes, remote I/Os, junction boxes, etc) Sealing of all the cable ways in slabs and traps, conduits, shafts, etc. with fireproof rubber cement and/or other fireproof material approved by the Contractor. Sealing of all the switchboard, electrical fitting and substation cable entrances with fireproof rubber cement and/or other fireproof material approved by the Contractor. Final cleaning of all the installed fittings and machinery before the consignment.	Middelburg	E	EPC	General	2019

**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
OR Tambo District Municipality	Amatola Water	Construction of Three Clear Water Pump Stations (Zamakulungisa, Viedgesville, Mdoni) Mechanical and Electrical	<p>Detailed design of all mechanical and electrical systems</p> <p>Supply and installation of all mechanical and electrical control and instrument components</p> <p>Connections to Eskom power supply points (outside pumpstation buildings) and associated buried power cable to MCC</p> <p>Connections to existing supply reservoir pipework</p> <p>Connections to existing rising mains</p> <p>Minor building modifications (suction and delivery pipework through brick walls).</p> <p>Minor concrete works (construction of pump plinths and anchor blocks).</p> <p>Minor structural steel work (suction and delivery manifold supports).</p> <p>Terminal box for signals for remote monitoring of pumpstation status (telemetry by others under a separate Contract).</p> <p>Performance acceptance testing and commissioning</p> <p>Issue of Electrical Certificates of Compliance</p> <p>Training of OR Tambo District Municipality Operations staff</p> <p>Liaison and cooperation with the OR Tambo District Municipality Operations staff</p> <p>Rectification of any defects during a 12 month Defects Notification Period (DNP)</p> <p>Quarterly service and maintenance of equipment during the DNP</p> <p>Production of as-built drawings</p> <p>Operation and Maintenance Manuals</p> <p>Environmental, Health and Safety compliance and management.</p>	Eastern Cape	E&M	P&C	General	2019
National Petroleum Refiners of South-Africa (Pty) Ltd (NATREF)	National Petroleum Refiners of South-Africa (Pty) Ltd (NATREF)	J 11046 Turbine Replacement	<p>Excavations and back filling for extension to pump foundations</p> <p>Core drilling new holding down bolts for pump base</p> <p>Demolition of existing structural steel</p> <p>Removal of complete pump assembly</p> <p>Removal and storage of the pump</p> <p>Installation of required pump cooling, seal, flush and oil lines</p> <p>Electrical works (including earthing, fireproofing, terminating and modification)</p> <p>Installation of Control Valves and Flow Transmitter</p> <p>Panel wiring in the DCS and ESD Cabinets for additional power (24V)</p> <p>Piping works</p>	Sasolburg	SMEIP	P&C	O&G	2019
Sasol South Africa Ltd	Sasol South Africa Ltd	JB Systems Upgrade	Basic and Detailed Design of four (4) new changeover switches (COS) which will be fed from existing MCC's. These changeover switches will be installed inside wall mounted panels located inside the AA-SS-01 substation.	Secunda	E	ENG	O&G	2020
Sasol South Africa Ltd	Sasol South Africa Ltd	Cafeteria Upgrade	<p>Upgrade Electrical Infrastructure</p> <p>Install Electrical Mini-substation</p> <p>Upgrade DB System</p>	Secunda	E	EPC	O&G	2020
Hulamin Operations (Pty) Ltd	Hulamin Operations (Pty) Ltd	PTTL Upgrade project	<p>Control system and Drive Upgrade</p> <p>Design</p> <p>Manufacture</p> <p>Supply</p> <p>Delivery</p> <p>Installation &amp; Construction</p> <p>Preparation off As-Built drawings</p> <p>Testing &amp; Commissioning</p> <p>Training &amp; Operational manuals</p>	Pietermaritzburg	E, C&I	EPC	General	2020



**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Sasol South Africa Ltd	Synfuels Operations	JB Systems Cubicle Retrofit H1EE537A	1, Lighting Removal 2, Removal of Glands and Terminations 3, New lighting Installation 4, New Glands and Terminations 5, Cable Supply and Installation 6, CCG Box and Installation 7, Racking and Containment supply and Installation 8, New Lighting Pole supply and Installation 9, Engeineering 10, Red line Existing Drawings 11, Update Exiting Electrical Load List 12, Update existing SLD's 13, Upate Existing GA's 14, Update Existing Equipment layout drawings. 15, Update Wxisting Connection Diagrams 16, Update existing Earthing Layouts 17, Update Existing Racking Layout drawings 18, Update Existing ligting Layout. 19, Update existing Calbe Schedule - Power Cables	Secunda	E	EPC	O&G	2019
Sasol South Africa Ltd	Synfuels Operations	Refinery East & West Lighting Replacement Project	Refinery East & West Lighting Replacement Services	Secunda	E	Services	O&G	2019
Sasol South Africa Ltd	Sasol Chemicals	Sewer Networkk Evaluation	1, Perform a visual inspection on ninety-four (94) lifting stations of Sasal Secunda, evaluating against Sasol Specifications and Standatd Drawings. 2. Compile a report consisting of one page per lifting station the deviatons from the specification and the action required ro rectify the deviations. 3. Assign a Safety and Operational ranking to each lifting station based on the severity of the deviations.	Secunda	E	Services	O&G	2019
Scaw South Africa (Pty) Limited	Scaw South Africa (Pty) Limited	Large Bar Mill Project, Morgan Mill	1. Install hydraulic lines to DPCOMK-JD01-P5700-CD301 2, Install oil lubrication lines 3, Install grease lines 4, Do modification to hydraulic unit 5, Install compressed and instrumentation airline 6, Install waterlines 7, Do mechanical installation of machinery. 8, Electrical and Instrumentation Installation	Germiston	E&M	P&C	General	2019
Sasol South Africa Ltd	Synfuels Operations	Phase 2 SPEL Conversion Project	Phase 1 Site and Information Verifications Engineering Services and Engineering resources are allowed to Perform the Conversion to SPEL, Perform all Internal Qaulity Assurance and General Project Management.	Secunda	E	ENG	O&G	2019
So Simple Solar Asset Management (Pty) Ltd	So Simple Solar Asset Management (Pty) Ltd	Solar System Installation	Installation of inverter base grid tied PV Installation	Potchefstroom	E	C	PV	2019
Sasol South Africa Ltd	Synfuels Operations	Fuse Isolator Replacement	1, Detailed Engineering, Supply and Installation of new CFS unit. 2. The development of a detailed engineering package and updating of all drawings associated with the mentioned MCC. 3, Procurement and Installation of the required replacement equipment. 4, Quality Insurance. 5, Project and Engineering Management.	Secunda	E	EPC	O&G	2019
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Airmail Inblow Sample Project	Supply, Delivery, Install and Commission of Air Tube System at Basic Qxygen Furnaces	Vanderbijlpark	M&P	P&C	Metals	2019
Consolidated Power Projects Energy Solutions (Pty) Ltd	CONCO Energy Solutions	Lavumisa PV Plant	Lavumisa 10MW Solar PV Plant	Swazilant	E, C&I	P&C	PV	2019

**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Sasol South Africa Ltd	Group Technology	MSP Filtration Capacity Upgrade Project	<ul style="list-style-type: none"> <li>• Removal of piping and equipment from the top of the existing separator vessel</li> <li>• Removal of the separator top access platform and cat-ladder</li> <li>• Removal of all external piping and equipment connected to or installed on the existing separator vessel</li> <li>• Removal of the existing separator vessel and loading for transportation (transportation of vessel excluded);</li> <li>• Installation of Employer supplied free issue material</li> <li>• Supply, fabrication and installation of new small-bore piping as per piping isometrics;</li> <li>• Supply and installation of all nuts, bolts and gaskets required for the works</li> <li>• Modification of concrete bund wall area;</li> <li>• Modification of grating for the platform's 1st floor;</li> <li>• Supply and installation of additional lighting for the platform;</li> <li>• Supply and installation electrical sockets;</li> <li>• Supply and installation of power cables and associated ancillaries;</li> <li>• Supply and installation of instrumentation;</li> <li>• Supply and installation of electrical cables;</li> <li>• Supply and installation of instrumentation cables;</li> <li>• Supply and installation of cable racks;</li> <li>• Supply and painting of the inlet separator supporting steel structures;</li> <li>• Supply and painting of the piping (piping that is handled, modified and/or newly installed);</li> <li>• Reinstallation of modified separator vessel;</li> <li>• Reinstatement of the separator platform;</li> <li>• Supply of all nuts and bolts for the structure;</li> <li>• Installation of all removed ancillaries;</li> <li>• Commissioning assistance of the new installed separator;</li> <li>• Provide the required Quality Control Packs for testing including Certificates of Compliance for the works.</li> </ul>	Secunda	SMEIP & C	P&C	O&G	2020
National Petroleum Refiners of South-Africa (Pty) Ltd (NATREF)	National Petroleum Refiners of South-Africa (Pty) Ltd (NATREF)	SRU Vulnerability Project	<p>EPC scope Preventing hydrocarbon carry-over by automatic draining of hydrocarbons from the Saturated Gas Inlet Separator (F 24004) and the Unsaturated Gas Inlet Separator (F24005). Installing a parallel flow controller on the natural gas feed to the burner and control system modifications to facilitate low acid gas flow rates. Improving final condenser temperatures by installing a new air cooler C-26007/R1 Scope includes the following disciplines:</p> <ul style="list-style-type: none"> <li>- Civil &amp; Structural</li> <li>- Mechanical &amp; Piping</li> <li>- Electrical</li> <li>- Control &amp; Instrumentation</li> </ul>	Sasolburg	SMEIP	EPC	O&G	2019
Sepco	Sepco	Early Works	Early Works - Redstone Bidding For the Package A, B & D	Northern Cape	SMP	P&C	M&P	2019
Sasol South Africa Ltd	Group Technology	NPN Upgrade Projects at: (R4/SS/3/4/5), (R4-SS-06/7) & (R5-BD-11)	<p>Detailed Electrical Engineering for non-process power distribution upgrade at seven substations.</p> <ul style="list-style-type: none"> <li>- Ring main units</li> <li>- Low Voltage Switchgear replacement</li> <li>- Distribution boards</li> <li>- Battery tripping units</li> <li>- Remote control and annunciator panels</li> <li>- Earthing, cable routing and racking</li> <li>- Lighting designs</li> <li>- Temporary power supply</li> </ul>	Secunda	E	EPC	O&G	2020
Sasol South Africa Ltd	Synfuels Operations	Mill Drive Replacement Project	<p>Design Manufacture, Supply and Install a replacement solution for the current motor and control gear used on the Boiler Mill Feeder belt for the following Boilers:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Boiler 5, 7 and 8 West</li> <li><input type="checkbox"/> Boiler 3 or 4 East</li> </ul> <p>Each boiler has four mill feeders and each mill feeder is equipped with one coal feeder Motor.</p>	Secunda	E, C&I	EPC	O&G	2020

**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Sasol South Africa Ltd	Synfuels Operations	Unit 30&31 Changeover Switches Project	- Design, Supply and Install the 10 Change Over Switches - Design, Supply and Install 10 of the Static Feeder Buckers to Cater for the Second Supply to the Loads - Complete all Necessary Panel wiring, new wiring, cable routing and panel and bucket installation to accommodate the new Change Over Switches and their Associated Supplies - Cold commission the Change Over Switches and associated supplies and release into service - Provide all End of Job documentation related to the project.	Secunda	E, C&I	EPC	O&G	2020
Sasol South Africa Ltd	Chemicals	Wax Sequence Programming	Software engineering for WAX production unit control system	Sasolburg	C&I	ENG	O&G	2019
Sasol South Africa Ltd	Synfuels Operations	PP Additives Warehouse Project	The as-building of the PP store and the completion of the detailed engineering package for the lighting design	Secunda	E, C&I	ENG	O&G	2020
Scaw South Africa (Pty) Limited	Scaw South Africa (Pty) Limited	Installation CMC Cable Protection	Installation CMC Cable Protection	Wadeville	E	P&C	General	2019
Vale Moçambique S.A.	SNC-Lavalin SA (Pty) Ltd	Vale Fire and Gas Systems Upgrade	Engineering assistance to the Detail Design for the upgrade of the Fire detection and Suppression systems at the Vale Site.	Mozambique	SMEIP	ENG	General	2020
Vale Moçambique S.A.	SNC-Lavalin SA (Pty) Ltd	Vale Filtration and Filtering & OC3	Provide Engineering assistance to the Detail Design for the Floatation and Filtering project as well as the overland conveyor 3 project.	Mozambique	SMEIP	ENG	General	2020
Exxaro Coal (Pty) Ltd	SNC-Lavalin SA (Pty) Ltd	Reductants plant refurbishment	Provide Engineering assistance to the Detail Design for the Tar Reductants plant refurbishment and upgrade. Scope include: - 3D Modelling	Limpopo	CSMEIPP	ENG	General	2020
Sasol South Africa Ltd	SNC-Lavalin SA (Pty) Ltd	SWM Pipeline Relocation project	Provide Engineering and Draughting assistance to Detail Design for the re-routing 1.8km of existing 8" gas pipeline.	Witbank	M&P	ENG	General	2020
Scaw South Africa (Pty) Limited	Scaw South Africa (Pty) Limited	VD Ducting Project	Vacuum Degasser Ducting	Wadeville	M&P	P&C	M&P	2020
Sasol South Africa Ltd	Synfuels Operations	Cable Rack Replacement at Unit 003	Cable Rack Replacement at Unit 003	Secunda	E	P&C	O&G	2020
Plant Design and Project Services (Pty) Ltd - PDPS	Plant Design and Project Services (Pty) Ltd - PDPS	BEP & DEP	Basic & Detail Engineering Serives for S2600 Hot Oil System Fire Protection	Secunda	C&I	ENG	O&G	2020
Plant Design and Project Services (Pty) Ltd - PDPS	Plant Design and Project Services (Pty) Ltd - PDPS	Wax Reflux Pumps Modification	Installation of Min Flow XV's on Wax Reflux Pumps	Secunda	E, C&I	EPC	O&G	2020
Sasol South Africa Ltd	Synfuels Operations	Cable Rack Replacement at Unit 203	Cable Rack Replacement at Unit 203	Secunda	E	P&C	O&G	2020
Megchem (Pty) Ltd	Megchem (Pty) Ltd	Aux Hip and Boiler Feedwater Pump Modifications	Basic and Detail Instrumentation and Electrical Engineering for the Aux HIP and BFW Pump Mod's at SGEPP	Secunda	E, C&I	ENG	O&G	2020
Sasol South Africa Ltd	Chemicals	Sasol Wax S200 Programming	S200 Wax Programming	Sasolburg	C	ENG	O&G	2020
Sasol South Africa Ltd	SNC-Lavalin SA (Pty) Ltd	EOJ & As-Build Drawings	Sasol E204 Project EOJ & As-Build Drawings	Sasolburg	E, C&I	ENG	O&G	2020
ACWA Power Solafrika Bokpoort CSP Power Plant (RF) (Pty) Ltd	ACWA Power Solafrika Bokpoort CSP Power Plant (RF) (Pty) Ltd	Bokpoort PV Augmentation Plant	4MW Bokpoort PV Augmentation Project	Northern Cape	E, C&I	P&C	PV	2020
Safripol (Pty) Ltd	Safripol (Pty) Ltd	Shutdown Services	Shutdown June 2020 - Planner Services	Durban	Planner	Services	General	2020
Sasol South Africa Ltd	Group Technology	SIL Project	Engineering, Procurement and Construction of the Ammonia and Explosives SIL Project.	Sasolburg	E, C&I	EPC	O&G	2020
Plant Design and Project Services (Pty) Ltd - PDPS	Plant Design and Project Services (Pty) Ltd - PDPS	Basic Engineering Services	Basic Engineering Services for the MIBK Corrosion Reduction Project at Sasol	Sasolburg	E, C&I	ENG	O&G	2020
ThyssenKrupp Industrial Solutions South Africa (Pty) Ltd	ThyssenKrupp Industrial Solutions South Africa (Pty) Ltd	Liquid Sulphur Degassing Project	Electrical and Instrumentation Construction Work at Natref	Sasolburg	E, C&I	P&C	O&G	2020
Sasol South Africa Ltd	Wood South Africa (Pty) Ltd	11kV Critical Switchgear East Replacement Project	11kV East Critical Substation Fire and Gas Replacement Detailed Design Project	Secunda	C&I	ENG	O&G	2020
NCP Alcohols (Pty) Ltd	SiVEST S.A (Pty) Ltd	Main Electrical, Control and Instrumentation Project	Main Electrical, Control and Instrumentation Works	Durban	E, C&I	P&C	General	2020
Sasol South Africa Ltd	Chemicals	Boiler Board 6 Project	3.3kV Boiler Board No 6 Replacement	Sasolburg	E, C&I	EPC	O&G	2020
Sappi Southern Africa Ltd	Sappi Southern Africa Ltd	PF Boiler HP Valve Replacement	PF Boiler HP Valve Replacement Shutdown November 2020	Ngodwana	M&P	P&C	M&P	2020
Sasol South Africa Ltd	Synfuels Operations	Relocate Electrical and Instrument Boxes	Detailed Design and Relocation of Electrical and Instrumention Boxes	Secunda	E, C&I	EPC	O&G	2020
Sasol South Africa Ltd	Group Technology	Detail Engineering Services	Deterioration of Sewer network ph1 - Electrical Detail Engineering	Secunda	E	ENG	O&G	2020
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Manufacturing Services	Manufacturing of Support Structures	Vanderbijlpark	M&P	P&C	Metals	2020
Sasol South Africa Ltd	Sasol South Africa Ltd	XV Valves Unit 350	Civil, Mechanical, Piping, Electrical and Instrumentation Construction for the U350XV-1002 Reinstatement Project	Secunda	CMPEI	P&C	O&G	2020
The South African National Roads Agency (SANRAL) SOC Ltd	The South African National Roads Agency (SANRAL) SOC Ltd	Huguenot Tunnel - Lighting Replacement and Upgrade	Lighting Replacement and Upgrade	Cape Town	E, C&I	P&C	General	2020
Sasol South Africa Ltd	Synfuels Operations	Basic Engineering Services	Basic Engineering Services for the U003 Earthing Replacement	Secunda	E	ENG	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Pilot Burners	Engineering, Procurement and Construction of Pilot Burners	Secunda	SMEIP	EPC	O&G	2021
Plant Design and Project Services (Pty) Ltd - PDPS	Plant Design and Project Services (Pty) Ltd - PDPS	SGEPP Modification Project	Engineering Support, Procurement and Construction upto Ready for Commissioning (RFC) of the SGEPP Modification of Auxiliary HIP Containers	Sasolburg	E&I	EPC	O&G	2021
ArcelorMittal South Africa Limited	ArcelorMittal South Africa Limited	Small Works Projects	Structure Steel Repair Work of 2c Conveyor Structure	Vanderbijlpark	SMEIP	P&C	Metals	2021

**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Sasol South Africa Ltd	Midlands	Utilities 6.6kV Board replacement	Engineering, Procurement and Construction of Utilities 6.6kV Board replacement	Sasolburg	E, C&I	EPC	O&G	2021
Sasol South Africa Ltd	Wax Synthesis	Tailgas Pressure	Modification Programming of Tailgas Pressure of S2600A/B	Sasolburg	C&I	ENG	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Loading and Offloading Stations Upgrade	Engineering Procurement and Construction (EPC) of Loading and Offloading Stations Upgrade at Nitro Fertilisers	Secunda	SMEIP	EPC	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Inside Ash Cable Replacement	Supply and Installation of Unit 003 Earthing Cable Replacement	Secunda	E	P&C	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	LOP Loop Design	LOP Loop and Additional Tank Level Switch Design	Secunda	C&I	ENG	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Boiler 8	Mills Feeder Drive Renewal	Secunda	E, C&I	P&C	O&G	2021
PV Hardware (Pty) Ltd	PV Hardware (Pty) Ltd	Scatec PV Plants work	PVH Request - Scatec PV Plants work	Northern Cape	E, C&I	P&C	PV	2021
Sasol South Africa Ltd	Synfuels Operations	Engineering Services	Design and Engineering of Gas Circuit West	Secunda	E, C&I	ENG	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Engineering Services	Design and Update Drawings for 2600A Motor	Secunda	E, C&I	ENG	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Engineering Services	OL Protection Relay Replacement	Secunda	E	ENG	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	PP Additives Warehouse Project	Supply and Installation of the lighting design	Secunda	E, C&I	P&C	O&G	2021
Worley RSA (Pty) Ltd	Worley Matasis (Pty) Ltd	CF II Clean Fuels 2	Lux Level Surveys	Secunda	E	C	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Engineering Services	Design, Procure and Install Power Supply with Control Panel to a HVAC unit	Secunda	E	ENG	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Catalyst Plant Conveyor VSD Control Circuit Upgrade	Installation of 0.75kW VSD for Catalyst Plant Conveyor at Unit 004.	Secunda	E, C&I	EPC	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Power Feed	Supply and Installation of Power Feed to CCTV Cameras	Secunda	E	P&C	O&G	2021
Sasol South Africa Ltd	Midlands	Crude EDC Decanter Replacement	Replacement of the Crude EDC Decanter Vessel FB-1207	Sasolburg	M&P	EPC	O&G	2021
Scaw South Africa (Pty) Limited	Scaw South Africa (Pty) Limited	Stripping of equipment for Transformer	Repair of Mechanical and Electrical of the Stripping of Transformer	Wadeville	M&P	P&C	Metals	2021
Sasol South Africa Ltd	Synfuels Operations	Engineering Services	Basic & Detailed design (NH3 Carryover, Rail automation and TSV upgrades)	Secunda	E, C&I	ENG	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	SCC Inching Valve Project	Design, supply, install, and commission, electrical and instrumentation enabling scope to facilitate the upgrade of the electric valve actuator 293HV-25D01_1 to a failsafe version of the current actuator	Secunda	E, C&I	EPC	O&G	2021
VGI Consulting (Pty) Ltd	VGI Consulting (Pty) Ltd	Komatipoort Compressor Station	Civil, Mechanical, Piping, Electrical and Instrumentation Construction for the MSP Filtration Capacity Upgrade Project	Komatipoort	SMEIP	P&C	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Analysers Replacement at Unit 244	Design and Engineering of Analyser Replacement for Unit 244	Secunda	C&I	ENG	O&G	2021
Sasol South Africa Ltd	Synfuels Operations	Mills Feeder Renewal 6 East	Boiler 6 East Supply and Install Four VSD including Cable and Terminations. Supply only Four Gearbox and Motors Combination to be installed by Sasol	Secunda	E	EPC	O&G	2021
Black Mountain Mining (Pty) Ltd (Vedanta)	Black Mountain Mining (Pty) Ltd (Vedanta)	0.7MTPA Modular Iron Ore Processing Plant	Detailed Design, Engineering, Procurement, Manufacturing, Quality Control, Packing & Supply, Transportation To & Off-Loading At Site, Construction, Installation, Mechanical Completion, Cold, And Hot Commissioning, And Performance Guarantee Test Required To Complete A Functional And Safe Iron Ore Beneficiation Plant.	Northern Cape	CSMEIPP	EPC	Mining	2021
Solar Capital	Solar Capital	86MW Orange Capital BOP PV Plant	Civil Installation Mechanical Installation Electrical Installation Fiber Installation, Splicing and commissioning Installation Quality control for entire project Manage all Site health, safety and environmental compliance	Northern Cape	C, E & M	P&C	PV	2021
Sasol South Africa Ltd	Synfuels Operations	Analysers Replacement at Unit 543	Design & Engineering of the analysers 543AT-50LN135-03, 543AT-60LN135-03 and 543AT-50LN179-02 at Unit 543	Secunda	C&I	ENG	O&G	2021
Wood South Africa (Pty) Ltd	Wood South Africa (Pty) Ltd	Updated As-Building Drawings	Update of Cpntrol and Instrumentation As-Built Deliverables	Secunda	C&I	ENG	O&G	2022
Safripol (Pty) Ltd	Safripol (Pty) Ltd	10MW PV Plant	Design, Engineering, Procurement and Construction for Civil Electrical and Mechanical Works of 10MW PV plant	Sasolburg	C, E & M	P&C	PV	2021
ANDRITZ Delkor (PTY) Ltd	ANDRITZ Delkor (PTY) Ltd	Fabrication of Thickner	Fabrication and Delivery of Thickner as per Fab Code FAB01-0100	Gamsberg	M&P	Fab	Mining	2022
ANDRITZ Delkor (PTY) Ltd	ANDRITZ Delkor (PTY) Ltd	Fabrication of Floor Plates	Fabrication of 2 off Floor plates Pie's	Gamsberg	M&P	Fab	Mining	2022
Sasol South Africa Ltd	Synfuels Operations	Installation of LOP Level Switches	Detail Engineering and Design for the installation of Cable Rack, LV Power Cables, Junction Boxes, Level Switches Annuncaitor and Tank Nozzles	Secunda	C&I	EPC	O&G	2022
Sasol South Africa Ltd	Synfuels Operations	Mills Feeder Renewal 2 East	Supply and Install Four VSD including Cable and Terminations. Supply only Four Gearbox and Motors Combination to be installed by Sasol	Secunda	E	EPC	O&G	2022
Sasol South Africa Ltd	Synfuels Operations	Mills Feeder Renewal 1 East	Supply and Install Four VSD including Cable and Terminations. Supply only Four Gearbox and Motors Combination to be installed by Sasol	Secunda	E	EPC	O&G	2022
Sasol South Africa Ltd	Synfuels Operations	Mills Feeder Renewal 7 East	Supply and Install Four VSD including Cable and Terminations. Supply only Four Gearbox and Motors Combination to be installed by Sasol	Secunda	E	EPC	O&G	2022
Sasol South Africa Ltd	Midlands	200A, 300A and 300B Switchgear Renewal Project	Design, Manufacturing Drawings, Procurement of Materials and Components, Manufacturing, Workmanship, Inspection, Testing, Documentation, Installation and Commissioning of the Required Auxiliary Panels and Equipment in The Following Sub-Station: Sub 200A, Sub 300B and Sub 700A	Sasolburg	CSMEIP	EPC	O&G	2022



**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Sasol South Africa Ltd	Synfuels Operations	Earthing Replacement @ Unit 203 - Inside Ash	<ul style="list-style-type: none"> <li>As built all drawings to indicate the layout and positioning of the earth points and earthing cables.</li> <li>Registration of all earthing points and install earth point identification numbering signs to all earth points.</li> <li>Ground Penetration Radar Scanning (GPRS) before installation of new earth rods.</li> <li>Remove all incorrect earth cable connections and install new MEPs.</li> <li>Inspect all Kwena earthing cable and verify if it is still complying to specifications, if not replace with copper clad steel.</li> <li>Install new earthing cable where copper cable has been stolen.</li> <li>Update and ensure that all earthing related drawing for unit 203 are booked into EIE.</li> <li>All new earthing cable to be installed</li> </ul>	Secunda	E, C&I	P&C	O&G	2022
Wood South Africa (Pty) Ltd	Wood South Africa (Pty) Ltd	11kV Critical Switchgear East Replacement Project	Civil and Structural works Electrical, control and instrumentation work, including fire detection scope Site Establishment Control & Co-ordination Material Control & Procurement Pre-Installation Testing Installation Pre-Commissioning Testing & C.O.C. per circuit (SANS10142-1 and SANS10142-2) Assistance for handover to Employer Provision of As-Built documentation and drawings Provides all necessary management, labor, supervision, master installation electrician, accommodation, services, transport, warehousing, site establishment facilities, testing devices, cranes, scaffolding, tools and equipment, to installed Plant and Materials as specified and consumable materials for each and every item of expense necessary for the unloading, receiving, handling, hauling, storage, transporting, fabrication, modification, evaluation, construction, installation, erection, testing, pre-commissioning, completion and handover including all required QA/QC documentation in compliance with the project handover procedure, necessary for the complete electrical and instrumentation, civil and structural installation that permits completion of the subcontract works and safe operation for the above scope of work. Installs direct materials (Contractor free issued) and indirect materials LeadEPC procured bulk material to the Contractor's specification as listed in the relevant Bill of Quantities.	Secunda	C, E, C & I	P&C	O&G	2022
Thermo Radiators (Pty) Ltd	Thermo Radiators (Pty) Ltd	Pressure Vessel	Design and Manufacture of Pressure Vessels in accordance with ASME VIII & IX Construction Criteria with SANS 3834 Welding Criteria	Johannesburg	S, M&P	ENG / FAB	General	2022
Scaw South Africa (Pty) Limited	Scaw South Africa (Pty) Limited	Multi Discipline Engineering	Basic and Detail Multi- Discipline Engineering Work on Various Projects	Germiston	CSMEIP	ENG	Metals	2022
Sasol South Africa Ltd	Sasol South Africa Ltd	Changing Motor Control Signals	Detailed Engineering to Replace Profibus Motor Signals to Hardware Signals	Sasolburg	E, C&I	ENG	O&G	2022
Sasol South Africa Ltd	Wood South Africa (Pty) Ltd	Electrical and Instrumentation As-Building Works	E & I As-Building for 039HA-101A/B Drill Stem Hoist & 039SP-101A/B Drill Stem Drive Replacement	Secunda	E&I	ENG	O&G	2022
Sasol South Africa Ltd	Sasol South Africa Ltd	Analyser Replacement	Procurement and Construction for the Replacement of Analysers at Unit 067 and 069	Secunda	E, C&I	P&C	O&G	2022
National Petroleum Refiners of South-Africa (Pty) Ltd (NATREF)	National Petroleum Refiners of South-Africa (Pty) Ltd (NATREF)	Furnace Efficiency	The scope for the Energy Efficiency Improvement Project (EEIP) is to include additional measures that allows operations to control the draft and excess oxygen levels in the fired heaters and boilers to ultimately reduce unnecessary fuel gas firing on B14001, B14002 and B14006 located in Field 5A of the Naphtha Unifiner/Platformer Units U14000.  Our offer includes for Detail Engineering of the following disciplines with details as described in this document: a) Process b) Civil c) Structural d) Mechanical e) Piping f) Control and Instrumentation g) Electrical h) Fire detection and suppression	Sasolburg	CSMEIPP	EPC	O&G	2022 / 2023
Sasol South Africa Ltd	Sasol South Africa Ltd	VCM S2100 PLC Replacement Project	Project management, engineering, procurement, construction and commissioning support for all works associated with the removal of the existing PLC, installation of the new PLC system and associated equipment.	Sasolburg	E, C&I	EPC	O&G	2022

**PROJECT REFERENCE LIST**

Project Owner	Client	Project	Scope of Work	Location	Discipline	Mandate	Sector	When
Sasol South Africa Ltd	Sasol South Africa Ltd	BEP of Centralize Switchgear at AMS	The BEP phase includes the centralization of switchgear in the Ammonium Sulphate (AMS) substation, which requires C&I interfacing equipment to be moved from the blower house and compressor house due to the switchgear being moved to the AMS substation. The control equipment is currently in the switchgear panel at the blower house and interfaces to the air heaters and blower Motor Control Centers (MCC's), as well as the control of field devices via the ET200 remote IO station. The following possible migration solutions of the control equipment and interfaces will be evaluated and presented with a recommendation: a. Keep the control supply power in the existing panel and extend the Electrical and Control (E&I) interface to the new switchgear location. b. Move the control equipment to the AMS rack room, house it in a suitable panel, extend cables to the field junction boxes and the MCC's. c. Build a Honeywell control panel / cubical at the AMS rack room, using some of the available unused equipment and then hardwire the field devices and E&I interface. d. Build / modify a Honeywell control cubical at the Limestone Ammonium Nitrate (LAN) Rack room to include IO modules and Profibus modules. There are existing copper cables from the LAN rack room to the field junction boxes that can be used to connect the existing field devices to the controller. The fibre will be rerouted to the AMS substation for E / I interfaces.	Secunda	E, C&I	ENG	O&G	2022
Sasol South Africa Ltd	Sasol South Africa Ltd	Trichardt Yard - Fire Water Pumps	Completes the Engineering (process, civil, mechanical, piping, instrumentation and electrical) of the Trichardt Yard Exchange. Supply and Installation of Fire Water Pumps	Secunda	CSMEIPP	EPC	O&G	2022
Sasol South Africa Ltd	Wood South Africa (Pty) Ltd	Fire Detection System	The design, supply and construction of civil foundations, structures and buildings, other than supports for panels and fire detectors. The design, supply and erection and installation of all major structural steelwork other than conduit for cables and stands for panels. The supply and installation of power cables to the Fire alarm panel system equipment	Secunda	CSMEIP	EPC	O&G	2022
Sasol South Africa Ltd	Sasol South Africa Ltd	PLC Integration at Unit 300 Demin Plant	It is proposed to integrate the I/O signals from the current Mitsubishi PLCs (i.e. stream A and B controllers, and the RO stream controller) into the existing Honeywell DCS at unit 100 (NAP). The distance from the current PLCs to the NAP rack room is roughly 1000m.  With the proposed solution, production will be able to monitor the process in the demineralised plant from the existing Experion stations at the nitric acid plant. This will enable the control of the demineralisation streams and RO plant into controllers which are currently supported by the OEM, have good spares availability and internal support.	Secunda	E, C&I	EPC	O&G	2022
Sasol South Africa Ltd	Sasol South Africa Ltd	HIMA and Remote IO of 10 Tanks	Engineering support, Procurement and Construction of 10 off Tanks	Secunda	E, C&I	EPC	O&G	2022 / 2023
Transnet SOC Ltd	Transnet SOC Ltd	Coalbrook Pump Staion Fire Damage Repair (Electrical, Instrumentation and Civil)	Design, engineering, supply, manufacture, erection, application, delivery, handling, hauling, unloading / receiving, installation, construction, assembly, system testing, quality assurance and commissioning of all instrumentation, actuators, equipment, cabling, racking, racking reticulation associated with the Electrical, Instrumentation and Civil Portion of the Repair of the Coalbrook Pump Station	Sasolburg	E, C&I	P&C	General	2022 / 2023
Sasol South Africa Ltd	Sasol South Africa Ltd	NH3 TSV Upgrade and Rail Automation Control	NH3 TSV Upgrade and Rail Automation Control Quality Assurance and End of Job Documentation	Secunda	SMEIP	P&C	O&G	2022 / 2023
Sasol South Africa Ltd	Sasol South Africa Ltd	S200 Schenk Upgrade	Detailed Engineering Package for the Schenk filter steam tracing split and Schenk filter stack level switch relocation. This is to include the development of all required process, mechanical, piping, instrumentation / control and civil deliverables (where applicable) up to an approved for construction status.	Sasolburg	CSMEIPP	EPC	O&G	2022 / 2023
Sasol South Africa Ltd	Sasol South Africa Ltd	3MW Solar Plant	Turnkey EPC, Fully Wrapped Civil Works Mechanical Installation Electrical Installation. Fiber Installation, Splicing and commissioning Installation Quality control for entire project Manage all Site health, safety and environmental compliance Equipment: PV Modules Inverters Substructure Cables, Cable Sleeves and Trenching	Sasolburg	CME	EPC	PV	2022 / 2023
Jones & Wagener Engineering & Environmental Consultants	Jones & Wagener Engineering & Environmental Consultants	Engineering Services	Electrical and C&I Scope of the G807 - E,C&I Design	Secunda	E, C&I	ENG	O&G	2022