



**SPECIALISED  
POWER  
SOLUTIONS**

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**SPECIALISED  
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Specialised Power Solutions (Pty) Ltd offers EPC, turnkey or construction and erection only of substations and all MV/LV electrical infra structure



Our services include:

- Construction of Substation civils and switchrooms
- Installation and commissioning of indoor and outdoor substation equipment
- Installation and commissioning of MV switchgear, miniature substations and metering units
- Installation and testing of HV, MV and LV cable
- Installation and testing of transformers
- Installation and commissioning of generator sets, UPS, Solar inverters
- Installation and commissioning of PV solar plant from panels to inverter/combiner stations
- Construction of overhead lines





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Project History  
Capabilities  
Equipment

## Project History– Major Construction Projects

**Project:** 2006 Bombela Gautrain, Ekurhuleni Relocation of Electrical Services  
**Value:** R8,2M

**Client:** Bombela CJV for Ekurhuleni MM

**Consultant:** Lyon & Partners – Hennie Storm

**Duration:** 8 months

**Scope:** Relocation of 44, 11kV and LV services for Gautrain including:

Relocation of all electrical services between ORT international airport and Modderfontein,

Convert 44kV line to cable feed with transition yard,

Relocate 11kV cables,

Relocate LV services including lighting, traffic signals, Fibre Optic circuits.



## Project History– Major Construction Projects

Project: 2007 Unibijl and SE8 Substation rebuild

Value: R5M

Client: Emfuleni Metropolitan Munic

Consultant: Lyon & Partners – Martiens Lyon

Duration: 8 months

Scope: Supply, Install and commission 11kV Switchgear and cable including:

Supply, Install and commission 18 off 11kV panels at Unibijl substation,

Supply, Install and commission 6 off 11kV panels at SE8 substation,

Recommission 88kV transformer and line protection,

Install cable feeds from Unibily to SE8,

Test and reinstate all 11kV circuits damaged due to fire.



## Project History– Major Construction Projects

Project: 2009 Bombela Gautrain Midrand Train Depot Lighting

Value: R10,2M

Client: Bombela CJV

Consultant: Bombardier

Duration 16 months

Scope: Supply and Install LV distribution network and associated lighting including:

Supply and install 12 off LV kiosks and DB's,

Supply and install 212 poles and luminaires,

Supply and install 16 off 30m High masts,

Supply and install 12km LV cable.



## Project History– Major Construction Projects

**Project:** 2009 Sikhuphe International Airport, Mapaka, Swaziland

**Value:** R 7,7M

**Client:** Thales ATM UK/ Swaziland Government

**Consultant:** Thales ATM UK

**Duration** 12 months

**Scope:** Design, Supply and Install LV distribution network, including full UPS and Generator backup including:

Full integrated design of LV and IV distribution network,  
Supply and install 11 off LV kiosks, DB's and 1.2km LV network,  
Supply and install 3.3kV transformers and 7km cable network,  
Supply and install 4off 200kVA generators,  
Supply and install 4off 30kVA UPS.



## Project History– Major Construction Projects

**Project:** 2009 Witkoppies Substation Rebuild

**Value:** R34M

**Client:** Ekurhuleni Metropolitan Munic / AIG insurance

**Consultant:** Motla Engineering – Andre Denobili

**Duration** 16 months

**Scope:** Full rebuild of 132/11kV substation and supply and install 3 off 30MVA transformer including:

Construct new substation building, 132kV transformer, 80kl oil pit and ancillary civils,

Supply, install and commission 1 off additional 132kV transformer bay,

Supply, install and commission 3 off 30MVA 132/11kV transformers,

Supply, install and commission 31 off 11kV panels and remote protection panels,

Supply, install and commission 8 off 132kV protection panels,

Supply, install and commission 7MVAR 11kV Capacitor bank,



## Project History– Major Construction Projects

Project: 2011 Duncanville 20MVA 88/11kV transformer bay

Value: R4,5M

Client: Reliant Electric/Dorbyl Ringrollers

Consultant: CA Du Toit

Duration: 6 months

Scope: Design, supply, install and commission 1 off 88/11kV 20MVA transformer and all bay equipment including:

Supply, install and test 132kV Isolator, breaker, NEC/NER, 88/11kV 20MVA transformer, transformer protection panel

11kV Switchroom and 11kV switchgear.

11kV cableworks.



## Project History– Construction Projects

**Project:** 2012 Duncanville X4 industrial park

**Value:** R3.6M

**Client:** Reliant Electric

**Consultant:** Parigma Engineering

**Duration:** 2 months

**Scope:** Install and commission 11kV Cable, Miniature substations and switchgear

Install and commission 11kV cable 2km

Install and commission 8 x 315kVA minisubs

Install and commission Actom 11kV switchboard comprising 7panels

**Project:** 2013 Duncanville X474 industrial park

**Value:** R1.6M

**Client:** Reliant Electric

**Consultant:** Lyon and Partners

**Duration:** 2 months

**Scope:** Install and commission 11kV Cable, Miniature substations and switchgear

Install and commission 11kV cable 0.7km

Install and commission 3 x 315kVA minisubs

Install and commission Refurbed Reyrolle 11kV panel

Extend switchroom building

**Project:** 2013 Mark Park Shopping Centre

**Value:** R1.2M

**Client:** Growthpoint properties

**Consultant:** None

**Duration:** 2 months

**Scope:** Install and commission 11kV Cable and Replace existing 11kV switchgear

Install and commission 11kV cable 0.4km

Install and commission Tamco 5panel 11kV switchboard

**Project:** 2013 Sedibeng college Vanderbijlpark campus

**Value:** R1.8M

**Client:** Sedibeng college/Reliant Electric

**Consultant:** Lyon and Partners

**Duration:** 3 months

**Scope:** Install and commission 11kV Cable and miniature substations, relocation and connection of LV Services

Install and commission 11kV cable 0.8km

Install and commission 3off 315kVA minisubs

Relocate existing LV services

**Project:** 2014 St Helena Island Airport

**Value:** R3.8M

**Client:** Thales ATM UK/Basil Read

**Consultant:** Thales ATM/Worley Parsons

**Duration:** 12 months

**Scope:** Install and commission 11kV substations, LV shelter Kiosks and UPS systems

Install and commission 11kV Shelter distribution substations

Install and commission LV kiosks for distribution shelters

## St. Helena Airport



**Project:** 2015 Gryphon Tile Factory 88/11kV 20MVA transformer bay

**Value:** R4.8M

**Client:** Reliant Electric/Ceramic Industries

**Consultant:** Parigma consulting

**Duration:** 10 months

**Scope:** 88/11kV 20MVA transformer bay

EPC 88kV Transformer bay inclusive protection

11kV switchroom and associated protection schemes

**Project:** 2015 Gryphon Tile Factory 11kV cable reticulation

**Value:** R1.2M

**Client:** Reliant Electric/Ceramic Industries

**Consultant:** Parigma consulting

**Duration:** 2 months

**11kV cable reticulation**

11kV cable feeders from main substation to Factory substation

**Project:** 2015 Gryphon Tile Factory LV plant cable reticulation

**Value:** R3.3M

**Client:** Reliant Electric/Ceramic Industries

**Consultant:** Parigma consulting

**Duration:** 3 months

**LV plant cable reticulation**

Install cable racking systems for LV reticulation

Install LV cable reticulation

Install HML's

**Project:** 2016 Gryphon Tile Factory 88/11kV 20MVA transformer bay 2

**Value:** 1.8M

**Client:** Reliant Electric/Ceramic Industries

**Consultant:** Parigma consulting

**Duration:** 3 months

EPC 88kV Transformer bay inclusive protection





**Project:** 2015 Chemcity Business park

**Value:** R3.9M

**Client:** Reliant Electric/Sasol

**Consultant:** Aurecon

**Duration:** 5 months

**MV/LV cable reticulation**

Install 11 kv PILC cable reticulation

Install Mini subs

Install Streetlighting and cables





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**Project:** 2016 Long Lakes Substation

**Value:** R2.9M

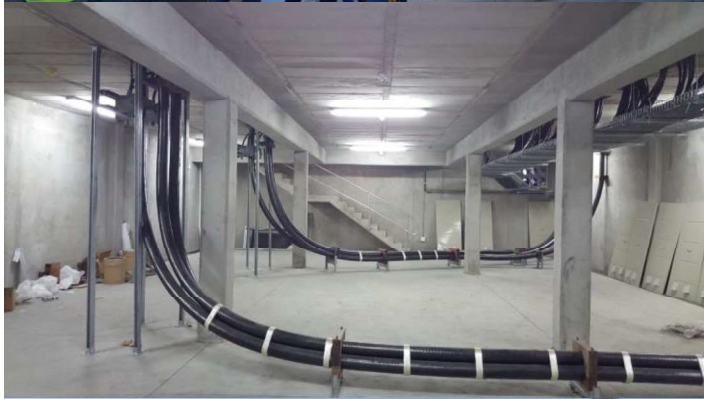
**Client:** Powertech/City Power

**Consultant:** Aurecon

**Duration:** 3 months

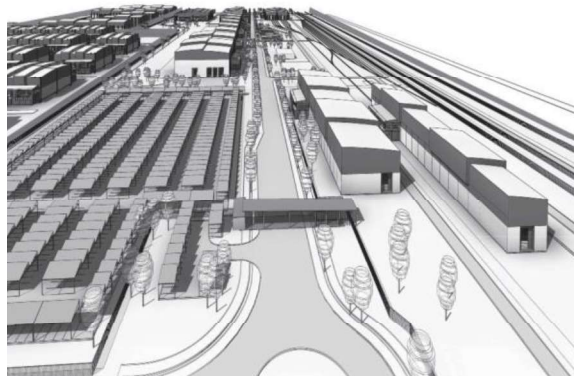
**HV/MV cable reticulation**

**Install 132kV and 11kV Cable**



Project: 2016/7 Restonic MV infrastructure and MV generator Phases 1,2,3  
Value: R2.9M  
Client: Enliten Electric/Restonic  
Consultant: Internal  
Duration: 24 months  
MV Infrastructure, MV Cable reticulation

Project: 2017 Gibela MV and LV infrastructure and lighting, Nigel  
Value: R2.0M construction and commissioning only. All materials free issue  
Client: Gibela, Trencon, Actom PS  
Consultant: Aecom  
Duration: 6 months  
MV Infrastructure, MV Cable reticulation, HML lighting, LV reticulation



## Project History—Construction Projects

Project: 2017 Klerksdorp City Mall MV switchgear upgrade  
Value: R1.7M  
Client: Growthpoint Properties, Trineon Elctrical  
Consultant: D Roberts  
Duration: 6 months  
MV Switchgear upgrade and cableworks