

CASE STUDY

BOSETO COPPER PLANT

PROJECT PROFILE

Boseto Copper Plant is located in Botswana, Africa.

A planned annual production of approximately 36,000 tonnes of copper concentrate and more than 1 million ounces of silver concentrate per annum, far in excess of the initially evaluated mine life of 15 years.

Full process plant facility with crushing, grinding, flotation and thickening circuits.

PRODUCTS HANDLED

- Copper and silver ore mined from an open pit operation

CAPACITY

- Designed to produce 3 MTPA of copper and silver concentrate

PRODUCTS USED

- Siemens S7 PLCs
- CitectSCADA v7.2
- PROFIBUS networking solutions
- SIMOCODE pro V intelligent relays
- VACON VSD technology controlled using PROFIBUS



SCOPE OF WORKS

- Full control system design, engineering and commissioning of process plant facility
- Electrical factory and site acceptance testing of MCCs and PCCs
- Electrical installation, site supervision and commissioning

OUR INVOLVEMENT

As a subcontractor to Sedgman Metals Ltd, SGC Australia were engaged to complete the control systems design, engineering, installation and commissioning for the greenfields copper mine including:

- CitectSCADA v7.2
- Siemens S7-400 PLCs
- Full process plant commissioning and PLC programming
- Smart relay, motor starters and VSD programming and commissioning
- Quality assurance inclusive of all testing, CVC and verifications
- Personnel management and supply

SGC Australia also supplied personnel to supervise the installation, electrical testing and commissioning of:

- HV & LV reticulation
- MCC & PCC factory and site acceptance testing
- Full process plant electrical services
- Smart relay, motor starters and VSD programming and commissioning
- Electrical and software commissioning management services
- Personnel management and supply