

CASE STUDY

NIPON N-CHLO PILOT PLANT

PROJECT PROFILE

The N-Chlo Process technology has been developed by Nippon Mining & Metals. It is based on their chloride leaching technology and solvent extraction technology accumulated through the wide range of non-ferrous metal processing operations, including copper slime processing and hydro-metallurgical nickel-cobalt recovery from mixed sulphide.

The characteristic feature of the process is that it enables effective recovery of copper as well as precious metals such as gold from low-grade copper concentrates.

The process enables effective recovery of copper, gold and silver from copper concentrates whose grade is even as low as 20%.

The copper grade is normally around 30%. N-Chlo Process could realise the development of low-grade copper mines and the operation enhancement of existent copper mines.

PRODUCTS HANDLED

- Copper, Gold

CAPACITY

- Copper production of 100 tonnes

PRODUCTS USED

- Rockwell ControlLogix 5000
- Rockwell FTView Server SE
- Rockwell FT Historian SE



SCOPE OF WORKS

- Electrical design and commissioning of 11 process control panels
- Design, development and commissioning of control system
- Electrical, instrumentation and controls management and commissioning

SHUTDOWN MAINTENANCE

Ongoing Remote Site Support and Onsite Plant Shutdowns:

- Remote support of Rockwell PLCs, SCADA and Historian
- On site presence for plant maintenance shutdowns

Plant upgrades during plant shutdowns:

- PLC/SCADA/Historian changes as required