

This electrowinning pilot plant was designed and manufactured by SX Kinetics for a copper dump leaching / solvent extraction / electrowinning project in Kazakhstan.



Project: sxk-76

Client: Sary Kazna LLP

Location: Balkhash, Kazakhstan

Capacity: 240 kg copper per day

Cathodes: 40

Anodes: 55

Rectifier: 0 to 2,500 A and 0 to 12 V

Items Provided:

- Four EW cells manufactured from PVC / FRP with acid mist system.
- 0 to 2500 A and 0 to 12 VDC rectifier with constant load adjustment.
- Electrolyte tanks manufactured from polypropylene with immersion heater.
- Electrolyte feed and circulation pumps with flow meters
- 40 cathodes (316 SS) with edge strip and 55 anodes (Pb-Sn-Ca alloy).
- Manual hoist for lifting and transporting cathodes to stripping rack
- Cathode rinsing station with rinse tank and hanging rack (manual stripping).
- Schedule 80 PVC true union ball valves, globe valves, and fittings.
- Prefabricated steel building with vinyl coated R-20 insulation
- Completely assembled and tested prior to shipment

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