

Minerals Processing Solutions

Copper
Iran

Customer:	NICICO, National Iranian Copper Industries Co.
Project type:	Brownfield
Plant:	Sar Cheshmeh, Iran. Expansion phase 1
Ore:	Copper
Scope of supply:	Primary feed rate: 900 MTPH. Concentrate production: 35 MTPH.
Equipment & Processes:	<p>Basic engineering, project management, process equipment, off-site and on-site training, erection and commissioning supervision.</p> <p>Metso consortium leader, ABB subsupplier for all electrical installation, such as Transformers, MCC, Cabling, Instruments, Automation & Process Control.</p> <p>Apron Feeders(4 pcs Ore storage / 3 pcs Ore bin) and screens</p> <p>Primary SAG mill, 9,75 m x 4,90 m, 2 x 4100 kW</p> <p>Secondary Ball mill 6,71 m x. 9,90 m, 2 x 4100 kW</p> <p>Regrind Ball mill 3,95 m x 5,80 m, 1250 kW</p> <p>Rougher Flotation cells, 8 x RCS 130 m³</p> <p>1st Cleaner Flotation cells, 3 x RCS 50 m³</p> <p>2nd Cleaner Flotation cell, Column 4 m x 11 m</p> <p>Cleaner Scavenger Flotation cells, 5 x RCS 50 m³</p> <p>Concentrate Thickeners, 2 x dia. 35 m</p> <p>Concentrate Pressure Filters, 2 x VPA 1,5 x 1,5 m with 46 chambers</p>



Conditioners and surge tanks
Slurry Pumps, Slurry Piping

In Metso supply was also included Equipment from Subsuppliers, such as HydroCyclones (Krebs), AirBlowers (Aerzen), Compressors (IR), Tailings Thickener (Eimco, 120 m diam), OnLineAnalyzer (ThermoGammaMetrics), Density-and Flow-meters (EndressHauser) etc
Process / Fresh / Service water piping
Blower / Service Air piping
Spare and wear parts for commissioning and 2 years of operation



Benefits: Process guarantees for plant throughput, availability, concentrate and tailings grade.

Year: 2004.

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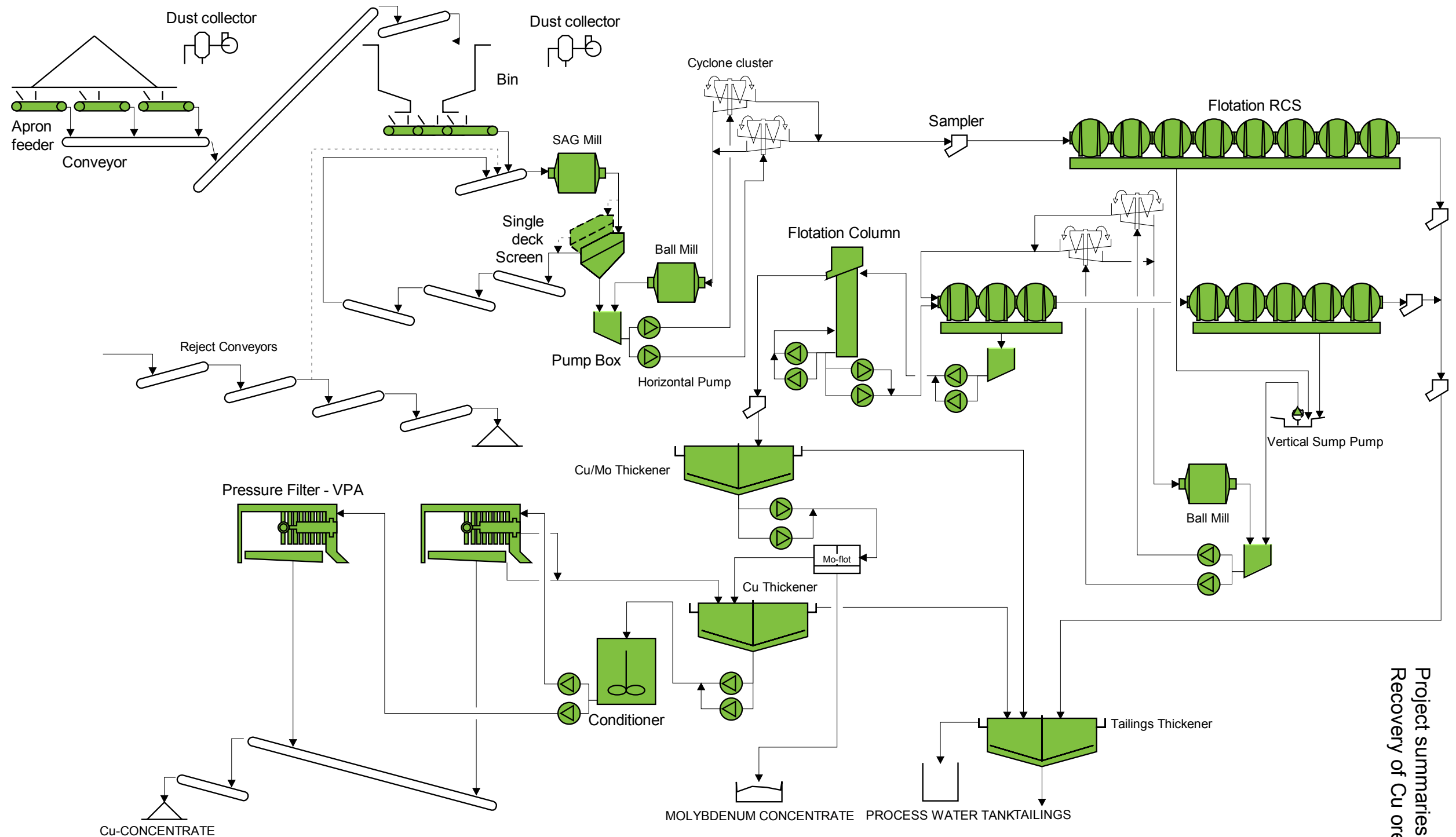


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Project summaries
Recovery of Cu ore