

Minerals Processing Solutions

Iron Ore Iran

Customer: Ministry of Mines and Metals, National Iranian Steel Co.

Project type: Greenfield

Plant: Chador Malu, Iran

Ore: Iron, (hematite and magnetite)

Scope of supply: Primary feed rate: 1176 MPTH (3 identical Grinding / Separation lines, each line with capacity 392 ton/hour) Iron ore concentrate: 5,1 million ton/year (1,7 million ton/line and year) Apatite concentrate 140 000 t/year. In year 2006, Metso sold Equipment to a 4th Grinding / Separation line, with same capacity 392 ton/hour as the other 3.

Equipment & Processes: Basic engineering, project management, main process equipment, off-site and on-site training, erection and commissioning supervision. During year 2006-2008, Metso delivered main process equipment to Line 4, and did supervise erection, commissioning and Start up.
Primary crusher, S-54-75
Feeders and screens
Magnetic separators, 21 + 7 x WS 1200 x 1800/2400/3000mm
HGMS, 3 + 1 x 350-05-05
Regrind ball mills 3 + 1 x 3,00m x 5,40m
Flotation cells, 78 + 26 x AS 3,3/9/11 m³

Thickeners, 15 + 5 x LTK 500/LTK 350/LTC2300/SFC 10m
Filters, 15 + 5 x TF 3,6 x 5,4m / TF 1,8 x 1,8 m
Conditioners and surge tanks, 33 + 11 units
Slurry pumps, 111 + 37 units
Slurry piping, Fresh water piping
Process water piping, Service water piping, Air piping
Spare and wear parts for commissioning and two years of operation
Off-site and on-site training

Year: Commissioning 1998 – 2001 for the first 3 Grinding / Separation lines. The 4th Grinding / Separation line was delivered and commissioned during 2006 – 2008.

Benefits: The stipulated capacities and recoveries were met for the first 3 Lines, which made that the Customer ordered Metso process equipment for the 4th Line as well.



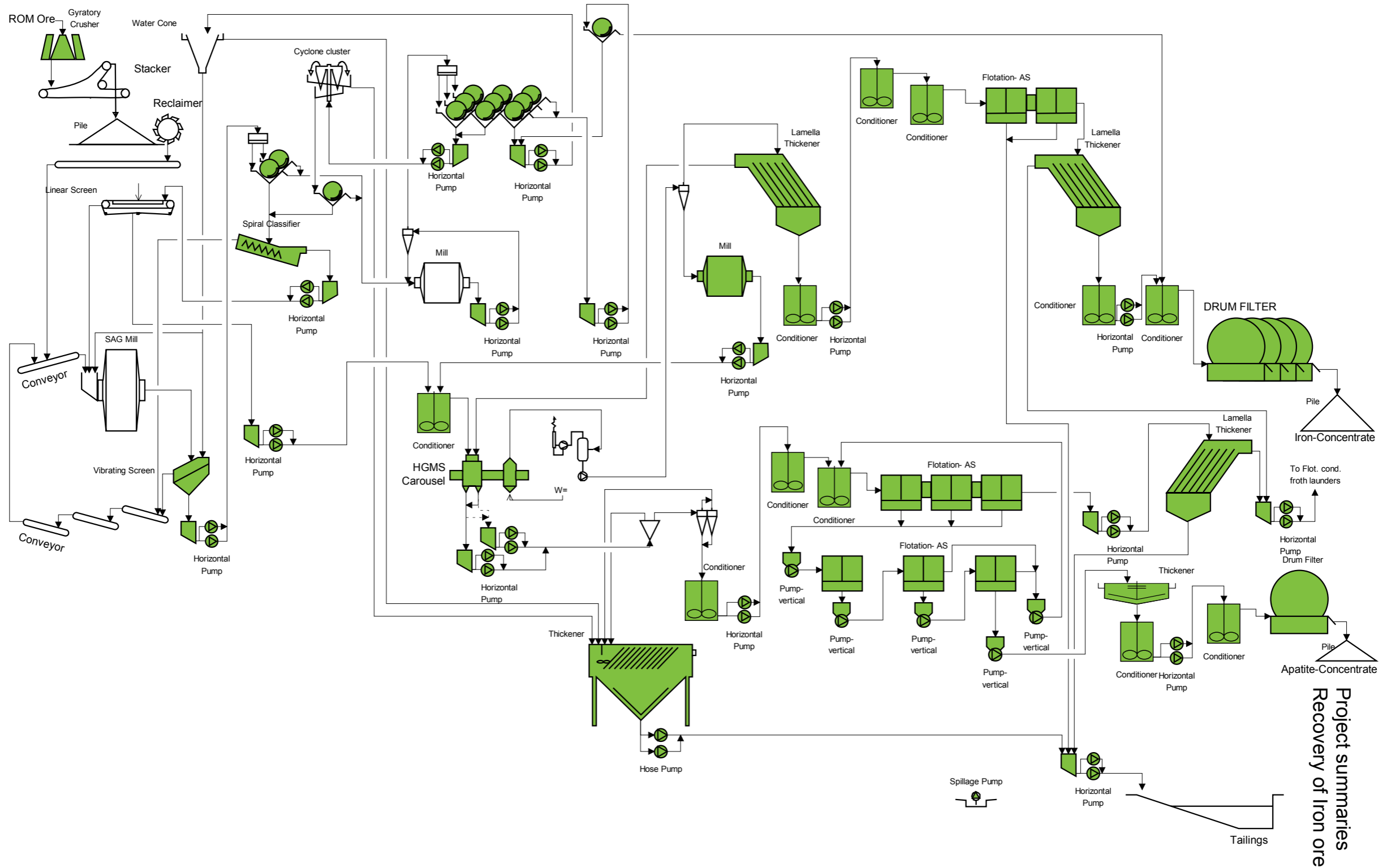
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Project summaries
Recovery of Iron ore