



Recovering Cu Sulphide from Ore - Froth Flotation

Presenter: **Eng. Navaraj Fernando Pulle**

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Hosted by: **Institution of Engineers Sri Lanka – WA Chapter**

DATE: Monday 30th April 2018 TIME: 5.30pm

VENUE: North Metropolitan TAFE, 30 Aberdeen Street, Northbridge, WA, 6003

TICKETS: Free of charge

Nifty Sulphide concentrator was commissioned in March 2006. Run of mine (ROM) ore is trucked to the surface ROM pad, crushed through a jaw crusher and fed directly into the mill. Also crushed ore from underground gyratory crusher conveyed to the surface and discharged into a surge bin from which ore is fed directly to the SAG mill. This arrangement allows for several options to feed the concentrator.

The grinding circuit comprises a SAG mill and ball mill with classifying cyclones and a flash flotation machine. Cyclone overflow is directed to rougher and scavenging flotation cells to recover the copper minerals. The rougher and scavenger concentrates are upgraded in the cleaner flotation circuit to approximately 23 per cent Cu. The final copper concentrate is thickened and filtered prior to dispatch by road to Port Hedland from where the concentrate is shipped to the smelter.

Part of the tailings is used to produce paste for underground and the rest is disposed of in a valley type tailings disposal facility.



About the Speaker



Eng. Navaraj Fernando Pulle graduated in 1995 from University of Moratuwa Sri Lanka in the field of process (chemical) engineering, Navaraj is currently working as a senior metallurgist at Metalsx Nifty Copper Operation.

He has 10 years experience in the mining industry covering the areas of mineral processing and metallurgical testing.

His experience includes production planning/management, trouble shooting and resolving metallurgical/process issues, metallurgical accounting, process improvements, process control, budgeting and cost management, training and safety of process personnel.