

Minerals Processing Division



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- Provide solutions to the pre-concentration of commodities of strategic importance to the country





Comminution

Physical Separation

Flotation

Overview of Minerals Processing Capability



- Focuses on innovative flowsheet development
 - Our specialities lie in our ability to test various technologies

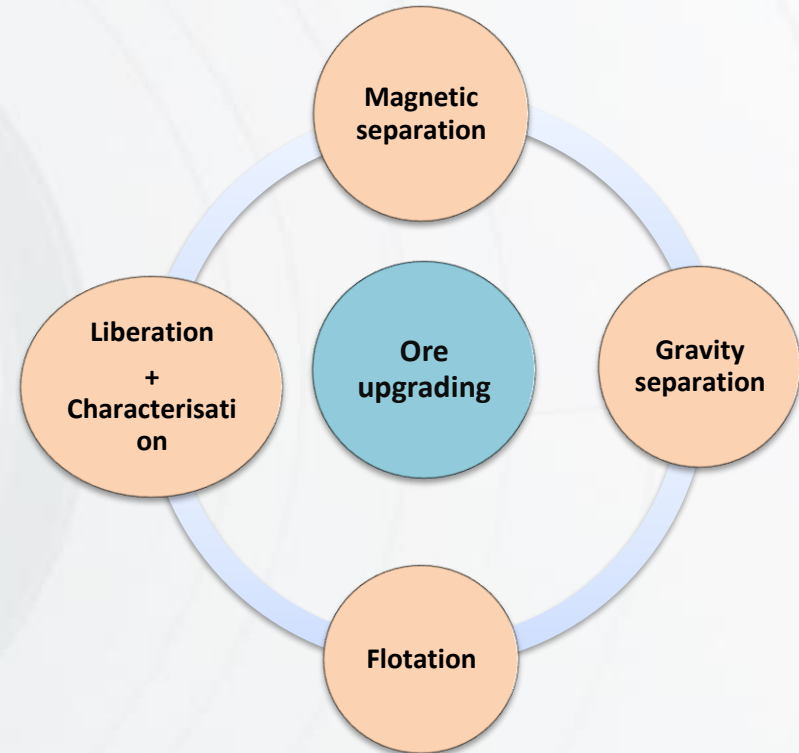




Figure 1 (a): Trommel screen



Figure 1 (b): Mechanical blender

Comminution Capabilities



Figure 3 : Crusher plant



Figure 4 : AG/SAG Pilot mill

Comminution Capabilities



- Laboratory and pilot mills
 - Ball mills, rod mill, AG/SAG, HIG mill, stirred media mill



Figure 5 : Stirred media mill



Figure 6 : Ball mill

Physical Separation

Gravity Separation

- HLS (lab) – DMS (pilot)
- Shaking Tables (lab) – Spirals (batch/pilot)
- Mineral Density Separators
- Teeter Bed Separators/Reflux



DMS and Spirals Facility

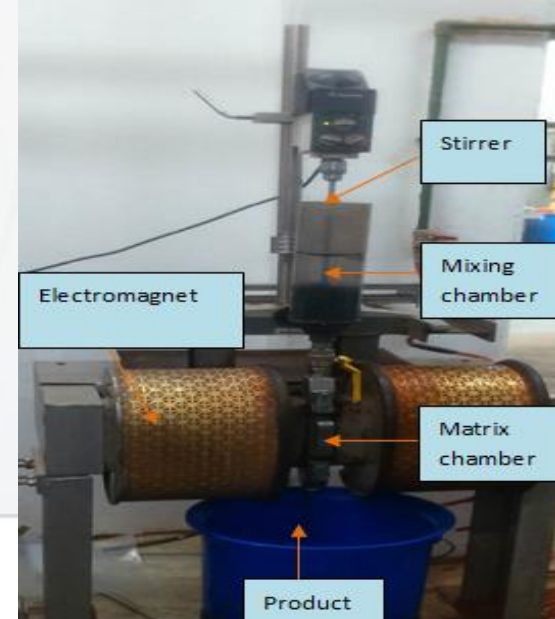
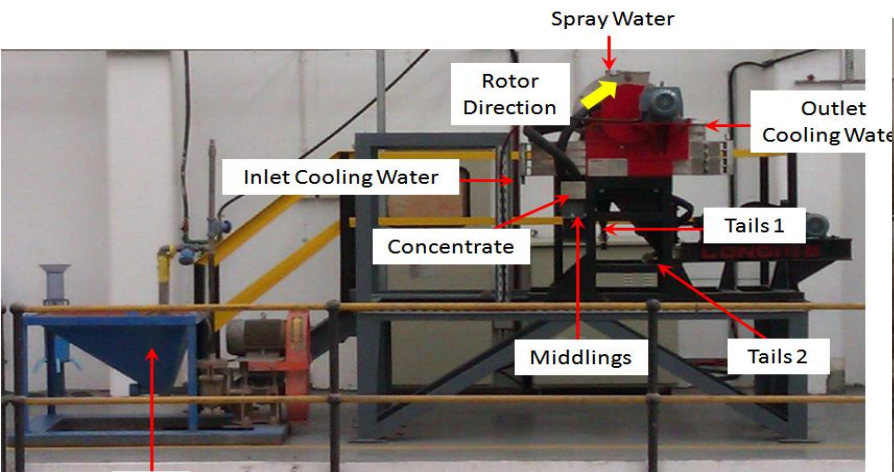


Physical Separation



Magnetic separation

- Perm Roll Separator
- Low Intensity Magnetic Separation (LIMS)
- Wet High Intensity Magnetic Separation (WHIMS)
 - LONGI
 - SLON



Flotation Testing Facility



- Laboratory and pilot (Reverse and direct flotation)



Flotation testing facility



Thank You



www.mintek.co.za