HYDROMETALLURGY

ProProcess
Innovate Design Fabricate

INDUSTRY

ProProcess is a process-focused engineering firm, able to contribute to a project at any stage of development, from conceptualization throughout the project life cycle, up to implementation and post-project production optimization. ProProcess is a medium-sized enterprise, which services the chemical, metallurgical, petrochemical and related process industries. Proprocess also offers a number of turn-key skid-mounted and containerised modular process unit operations for both pilot and full-scale operations.

Hydrometallurgy is defined as the selective extraction of minerals from ore, concentrates and intermediate residues, recovery of the valuable elements and producing intermediate or final saleable products using aqueous chemistry.

ProProcess personnel have vast experience in the hydrometallurgical field. The process engineers employed have experience in the research, operational and project sectors and a thorough understanding of the chemistry associated with base metal refineries as well as precious metal refineries.

We at ProProcess are positioned to develop process flow sheets, adapt processing routes to the ore and recommend modifications that benefit the client's production facilities in a fast and the most effective manner.

SERVICES

ProProcess experience includes the following:

- Heap, Agitated Tank, Dump and Pressure (Oxidative & Reductive, Continuous or Batch)
- Leaching
- Cementation
- Solvent Extraction
- Precipitation
- Electrowinning
- Crystallisation
- Biological Oxidation
- CIL and CIP Recovery
- RIL and RIP Recovery

Our in-house systems are created to assist the client to produce cost effective order of magnitude studies, pre-feasibility and feasibility studies as well as assisting with the implementation thereof. ProProcess is in an ideal position to assist the client in producing modular plants for implementation into remote areas.

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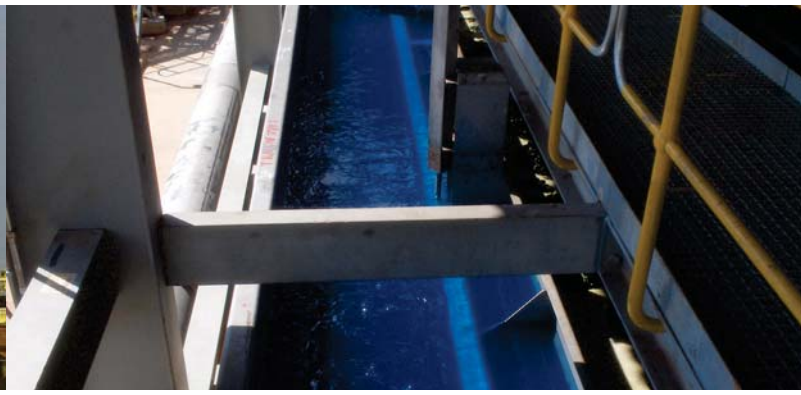

VISION

ProProcess is synonymous with process excellence within the industry.

MISSION

ProProcess provides smart, world-class, cost effective process engineering solutions to its client base.

CORE VALUES

ProProcess puts the client first and understand the issues from their perspective. We work with clients and partners to achieve their goals. We seek innovative, yet cost effective solutions for clients and partners.

OUR COMMITMENT

We work in close collaboration with our clients, ensuring that tasks are clearly defined and understood. We address current and future needs, through the delivery of value for money solutions.

"ProProcess: engineered with passion, executed in excellence.

COMPANY PROFILE

ProProcess is a dynamic engineering and design company. We consult and provide design and implementation services to the following industries:

- Mineral processing
- Hydrometallurgy (Base metals and PGMs)
- Acid Mine Drainage
- Petroleum and Petrochemical
- Waste to Energy
- Fine Chemicals
- Food and Beverage

As a multi-disciplined organisation, ProProcess strives to meet clients' objectives by drawing upon expertise in chemical process engineering; research and development; instrumentation; controls; and process analysis.

ProProcess takes pride in its ability to offer a high level of personal attention to all its clients. Clients can depend on speedy, cost effective solutions to their requirements, while maintaining control over project expenditure.

In this way, the investment becomes a joint venture with great benefits in terms of time, expertise and expense for the client.

ProProcess is committed to conducting its business in a safe, socially and environmentally responsible manner. We are an equal opportunities employer and do not discriminate on the basis of race or gender.

ProProcess employs Professional Engineers registered with ECSA (Engineering Council of South Africa). All our designs are produced, checked and approved by a registered engineer prior to construction.

The ProProcess Principal Engineers have post-graduate qualifications in Chemical Engineering, with extensive experience in the field of chemical, metallurgical and petrochemical processing and each have more than 15 years' experience in project engineering.