

## DIVERSE

MAED is fully equipped, either directly or through our technology partnerships to undertake water engineering, process design, environmental control, fire protection and other industrial projects of a small or large nature. Our engineers possess a wealth of experience in both turnkey and engineering, procurement and construction management (EPCM) projects, both locally and internationally. Our intervention would be on a consultancy, turnkey or managed contract basis.

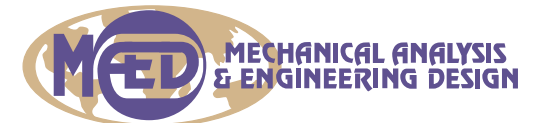
**MAED**

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INTEGRATED ENGINEERING SOLUTIONS



# INTEGRATED ENGINEERING SOLUTIONS

MAED is a leading supplier of integrated engineering solutions on the African continent. Our main design office is based in Johannesburg South Africa and we have design offices in West Africa and the Isle of Man.

We have supplied a full range of engineering disciplines to virtually all industries and are dedicated to achieving our clients' objectives, while ensuring the highest technical standards and cost efficiency.

Our truly flexible approach allows fast turn-around, without compromising our impeccable quality standards. We believe that the early involvement of our senior management from the proposal stage determines your project's ultimate success.

**OUR PROMISE** - MAED is committed to meeting and exceeding our clients needs, through the utilisation of competent personnel with hands-on experience, while maintaining a flexible and innovative approach to quality delivery.

## LATEST ENGINEERING TECHNIQUES UTILISED

MAED utilises the latest engineering techniques, including computerised stress analysis, piping and design simulation coupled to all structural and mechanical calculations performed by our professionally registered engineers. While accurate CAD/CAM engineering drawings are provided for complete safety and peace of mind.

## MINERAL PROCESSING

Regardless of the scope, size, or complexity of project, our engineering expertise and experience in the mineral-processing field ensures that we adhere to the following principles:

- Technical excellence in appropriate engineering
- Strict management of our budgetary constraints
- Timeous completion of all project activities
- Complete client satisfaction

## PROVEN TRACK RECORD

During the past three years MAED has successfully completed 17 multi disciplinary projects in the mineral processing field, totaling \$60m US. These projects included:

Autogenous and ball mill plants  
Elution and gold recovery plants  
CIP / CIL plants  
Power generation plants and reticulation  
Heap leach plant  
Mine security  
Mine housing, offices and infrastructure  
Flotation plants  
Crushing, screening and stockpiles



heap leach project, additional mine security and access control have aided in the increased profitability of the Syama Mine, which was a previously marginal mining operation.



## PETROLEUM & CHEMICALS

Our highly qualified staff members are fully conversant with all local and international codes of practice within the petrochemical fields. We have experience in the areas of steam, utilities, sulphur recovery, demin/cooling water, fired heaters, blending distribution and storage, tankage, rail and road loading and flare systems.

## BREWING

MAED has been engaged continuously over the past 9 years in various engineering projects for the South African brewing industry.

Our particular areas of intervention have been in the utilities areas, such as steam raising plant, refrigeration plant, carbon dioxide and water distribution. In the process areas our involvement has included vessel design, caustic systems, wort boiling and CIP plants. In addition we are conversant with the various forms of beverage packaging.

## INDUSTRIAL

Our turnkey projects and contracts have ranged from ceramic drying plants and dust extraction systems to state-of-the-art caustic recovery and cleaning systems.

