



**PGBI**

A MEMBER OF THE DRA GROUP



# Sugar Milling

# Engineering your Future

## About PGBI

---

For over 30 years PGBI has been committed to delivering projects that not only meet client needs but those that exceed client expectations. Our unrivalled expertise in the sugar, bio-ethanol, biomass power generation, timber and food and beverage industries is why clients elect us as their partner of choice. Over the past three decades, our knowledge has grown with our clients and together we have transformed ideas into realities and fostered relationships that develop the solutions of the future.

We are recognised throughout the industry as leaders in project planning, project management, engineering and agricultural development services, offering comprehensive solutions to suit our client's specific requirements. Our golden standard of service delivery ensures we deliver projects within time, cost and quality constraints as set by our clients while our commitment to excellence ensures we achieve our clients' financial performance objectives, throughout a project's lifecycle.

Our clients are confident in our ability to deliver and our relationships are more than business as usual, they are strategic partnerships that deliver value through the development, implementation and subsequent operation of projects in project development, project financing, engineering, management and feasibility advice. This particular reputation for project management excellence in the agricultural sector is now further strengthened by our partnership with the DRA Group. As a member of this world renowned engineering firm, we are now able to extend our client offering across multiple sectors and industries and deliver the same exceptional, high-level service with a comfortable and personal feel. With over 1 200 industry professionals, spanning five continents and operating across six sectors – our clients can be confident that we will meet and exceed every expectation.

Our clients' success is our success and we are proud of our enviable track record:

- Our people continue to exceed performance targets by delivering the highest service standards on projects and operations;
- Clients acknowledged us as their firm of choice because we invest in our relationships;
- Our industry recognises our innovation through Technology Top 100 Awards, and;
- Communities acknowledge our expertise in construction projects and the establishment of sugar cane plantations.



SUGAR



ETHANOL



BIO ENERGY



TIMBER

## What we offer

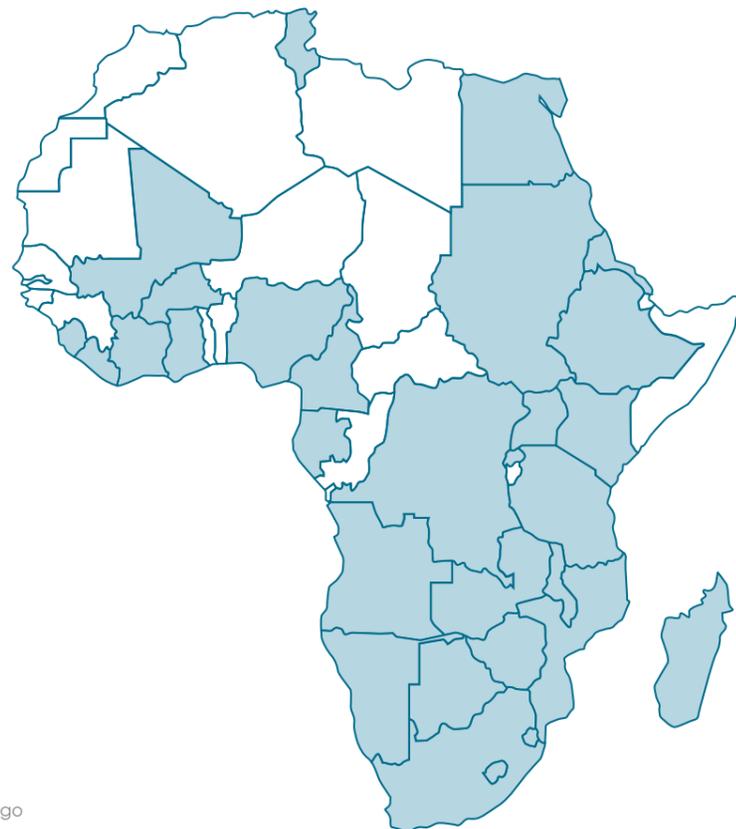
As global specialists in the design and project management of sugar projects, clients have entrusted us with over 500 projects, in more than 20 African countries as well as Indonesia, China, Saudi Arabia and Syria. Due to our extensive knowledge we are able to implement both green and brownfield projects, for sugar refinery and milling, as well as ethanol production projects, according to client specifications.

Our fully integrated project solution, from project conceptualisation through to detailed engineering design, project execution and asset management is what satisfies all client concerns. Our clients are as diverse as our services, ranging from private sector to government departments, investors and funders. We have advised clients on large scale agricultural development projects that will develop national agricultural sectors.

We acknowledge our responsibility to clients and to communities and we remain committed to guiding the industry to deliver higher levels of management excellence. In collaboration with a team of experts, we advised on and produced an internationally recognised manual on "Good Management Practices Manual for the Cane Sugar Industry"

## Our delivery

South Africa  
 Lesotho  
 Namibia  
 Swaziland  
 Botswana  
 Zimbabwe  
 Zambia  
 Angola  
 Malawi  
 Rwanda  
 Kenya  
 Uganda  
 Ethiopia  
 Cameroon  
 Gabon  
 Nigeria  
 Ghana  
 Egypt  
 Eritrea  
 Sierra Leone  
 Burkino Faso  
 Sudan  
 Mali  
 Liberia  
 Ivory Coast  
 Tunisia  
 Mozambique  
 Mauritius  
 Madagascar  
 Democratic Republic of Congo



1200+  
 INDUSTRY  
 PROFESSIONALS

500+  
 PROJECTS  
 DELIVERED

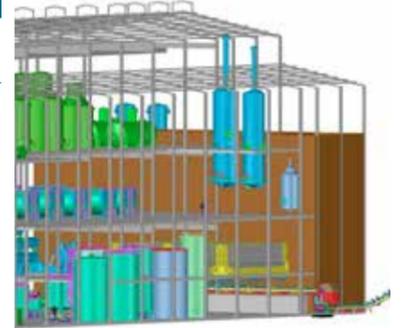
## Project experience

### PROJECT:

**Yanbu 2500tpd Sugar Refinery Design and EPC LSTK Tendering Technical Support and Contract Administration**

CLIENT: DURRAH SUGAR

In 2014, Durrah Sugar elected PGBI to design and procure a state-of-the-art Sugar Refinery Plant in the Kingdom of Saudi Arabia. Located at Yanbu Industrial City, directly at the port, the plant is expected to produce 2500 tons/day, around 850,000 tons per year, of refined sugar according to European specifications. PGBI will provide the technical expertise required in order to successfully execute the project, as established by the client. The procurement of the plant contractor was concluded in 2015.

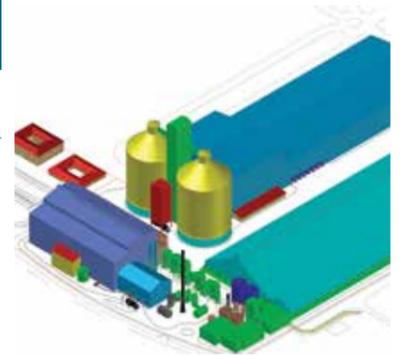


### PROJECT:

**Front End Package and FEED Design Services to the AK Saeed Group for the Al Reef Refinery at Jizan**

CLIENT: A.K. SAEED

PGBI completed the Front End Engineering Design (FEED) and Front End Package (FEP) for the proposed 1 million tpa sugar refinery in Jizan, Saudi Arabia. Scope of work included, a detailed capital cost estimate and implementation plan as well as an Invitation to Bid (ITB) process for all equipment and services necessary for plant implementation. The study was finalised in 2015.

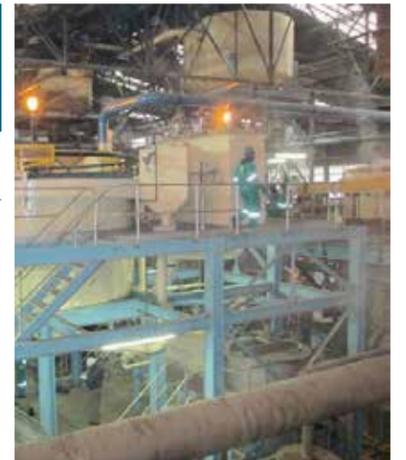


### PROJECT:

**Noodsberg Syrup Clarifier EPCM**

CLIENT: ILLOVO SUGAR LIMITED

Illovo Sugar Limited (Noodsberg) appointed PGBI to undertake an FEP and the EPCM for their syrup clarifier installation. The syrup clarifier design and implementation reduced the colour of VHP sugar produced, and reduced suspended solids and ash contents, improved sugar filterability and reduced massecuite viscosities as well as improving sugar recovery and steam economy. The plant was commissioned in 2014.



## Project experience continued

### PROJECT:

**Sugar Business Development, Owner Engineer Services, Eritrean Sugar Programme**

CLIENT: IVORY TRADING, ERITREA

In February 2013, PGBI was appointed to define the project scope, parameters technology and implementation plan and establish the overall requirements, standards, policies and procedures to be included in the Industrial Plant EPC Contractor scope. PGBI's work was concluded in 2014 and set the basis for the development of a sugar industry in Eritea.



**PROJECT: Project Management, Procurement, Construction and Commissioning (EPCM): Xinavane 380tch Factory Expansion, Mozambique**

CLIENT: TONGAAT HULETT SUGAR

In October 2006, PGBI was commissioned to prepare a Class II cost estimate for the expansion of Tongaat Hulett Sugar's Xinavane Sugar Mill in Mozambique. The project was approved in December 2006 with PGBI appointed, on an EPCM basis, to undertake the factory expansion programme over a period of 30 months. The extension, from 150tch to 380tch, was successfully completed in 2009.



**PROJECT: Procurement, Project Management, Construction and Commissioning: Molecular Sieve for Ethanol Distillery: Triangle Sugar Ltd: Zimbabwe**

CLIENT: TONGAAT HULETT TRIANGLE

In August 2006, PGBI commenced the procurement, project management, construction management and commissioning of a new molecular sieve for the ethanol distillery at Triangle Sugar Ltd, in Zimbabwe. This enhancement aimed to produce fuel grade ethanol for petroleum blending. The equipment was procured from Indian technology suppliers as a turnkey package with PGBI managing the integration. The project was commissioned in 2008 and successfully produces fuel ethanol for blending.



## Advisory, Engineering Design, EPC, EPCM and LSTK

### EPCM Projects

FEED Designs    Detailed Engineering    Procurement    Construction Management    Project Management

### EPC/LSTK Projects

FEED Designs    Technical & Commercial Specification    Procurement Documents & Procurement    Owners Engineer    Complete EPC Solutions

### Operations & Engineering Support

Energy Optimisation    Performance Enhancement    Capital Motivations    Project Management & Procurement    Expediting and Quality Inspections    O&M Capacity/Contracts

### Business Development & Advisory

Greenfield Project Identification & Development    Opportunity & Capability Studies    Pre-Feasibility & Bankable Feasibility Studies    Lender's Advisor & Due Diligence    Project & Business Development Programmes

## Contact Us

---

JOHANNESBURG

Tel: +27 (0)11 202 8600

Email: [info@DRAGlobal.com](mailto:info@DRAGlobal.com)

DURBAN

Tel: +27 (0) 31 202 3098

Email: [info@DRAGlobal.com](mailto:info@DRAGlobal.com)

