



G&H Consulting Engineers (Pty) Ltd

Project Engineering Services

COMPANY PROFILE



- TOTAL PROJECT MANAGEMENT



G&H CONSULTING ENGINEERS (PTY) LTD

REG. No. 2007/030778/07
PROJECT ENGINEERING SERVICES - PROJEK INGENIEURSDIENSTE

G&H COMPANY PROFILE

1. Background to the Company

The company was originally formed in 1985 as Greenblat & Hutton cc. by the original partners, Motty Greenblat and William (Bill) Hutton.

Initially, the G&H partnership was engaged by the JCI Coal Division to supply engineering resources for a major coal mine feasibility study. At the conclusion of the study, the project was implemented and senior G&H engineers played a leading role in the design, engineering and commissioning of the project.

Between 1990 and 1995 key personnel from G&H played a leading role in numerous JCI projects, principally two additional new ferro-chrome furnaces at CMI Lydenburg, several platinum furnace upgrades (Waterval and Mortimer), the Foxsmelt platinum furnace project (Waterval), various underground backfill projects for the JCI Gold Division, including an underground backfill project for Ashanti Goldfields in Ghana.

During 1995 JCI was unbundled into various new companies and from this the Anglo Platinum organisation was formed. G&H consultants then played major roles in the development and execution of various Anglo Platinum key projects. These were principally the Bafokeng Rasimone Platinum Mine (BRPM) Concentrator Project, the Potgietersrust Platinum 425ktpm Expansion Project and the Lebowa Platinum 50ktpm UG2 Concentrator.

In August 2000 Anglo Platinum downsized its internal projects division and G&H absorbed a large portion of that division. The partnership has grown steadily since becoming an independent Project House and various large scale projects were executed.

As a result of the growth in the company, a decision was made during 2007 to change from a closed corporation to the current registered company. The following directors were appointed subsequently:

M Greenblat	-	Managing Director
WR Hutton	-	Financial Director
R Huygen	-	Marketing Director
S Arundale	-	Project Controls Director
R Allen	-	Projects Director
P Smallberger	-	Projects Director

2 Current and recent major projects

During the first quarter of 2008, G&H were awarded the execution of the new Slag Cleaning Furnace (SCF2) project at the Waterval Smelter complex of Anglo Platinum as well as the upgrade of their concentrate smelting furnace at the Mortimer complex.

During the last quarter of 2006, G&H completed a large portion of a study for the Minpro Smelter Expansion Project, for Impala Platinum. This project was subsequently awarded to G&H for the execution of the Shared Services package of the Furnace No. 4 Upgrade scope and was completed during the last quarter of 2008.

In December 2006 G&H completed the feasibility study and CBE for a 160 000tpm Chromite Recovery Plant at the Doornbosch Chrome Mine for Samancor Chrome. This project was also awarded to G&H and the assigned scope was completed during December 2008.

G&H completed phase 1 of the design and engineering of the Lion Ferro-chrome Smelter Project for Xstrata. The plant incorporates two pelletising plants, two large rotary kilns and two furnaces. Construction and commissioning of the project was undertaken by Xstrata and was successfully completed during the second half of 2006.

During 2003 G&H completed the design, engineering, construction management and commissioning (EPCM) of the platinum Polokwane Smelter Project for Anglo Platinum, where G&H provided a complete multi-disciplinary service encompassing all disciplines, including site management.

3 Vision

G&H has grown to a medium sized Project Services Company that can provide full project management, from conceptual design, including bankable feasibility studies through to project execution and commissioning, covering Engineering, Procurement, Construction and Management (EPCM).

With the professional skills that have been acquired in our staff we can offer competitive and highly professional services to our clients.

The area of our particular expertise and our focus remains on the mining sector of the industry with full capabilities in gold, coal, diamonds, chrome, base metals and platinum group metals (PGM's).

We also have technical capability in other sectors, namely heavy mineral plants and industrial minerals.

4 Services

G&H believes in **Total Project Management** and by means of applying sound project management and design principles we are able to complete projects on time and within budget. We have developed into a leader in the design and engineering of platinum and ferrochrome, concentrator and smelting operations.

Our project management and engineering capability ranges from feasibility studies, through conceptual and detailed design and construction management, to successful implementation and handover. We have the in-house knowledge to design and execute projects for mineral processing facilities from initial treatment of mined ore to the production of a saleable product. Our knowledge base covers the majority of the minerals and metals processing operations.

By means of implementing innovative design concepts and value adding studies, our design teams (which incorporate the main engineering disciplines of process, mechanical, civil and structural engineering) can produce cost-effective designs and deliver projects to our client's requirements and satisfaction.

The design and construction phases of all G&H projects are simplified and streamlined, through the use of 2D and 3D computer packages and other sophisticated modeling tools.

The G&H design and execution approach follows a logical sequence, based on all the functions required, in order to complete a project to the Client's specification and requirements. This sequence includes the following services:

- Project Mobilization
- Planning
- Project Procedures Manual
- Engineering Discipline Design Criteria
- Value Engineering
- Block Flow and Process Flow Diagrams
- Process & Instrumentation Diagrams
- Plot Plans
- General Arrangements
- Equipment Lists by Discipline
- Equipment Specifications
- Tender Enquiries for Equipment
- Material Quantity Estimation
- Pricing Schedules
- Budget Estimates
- Hazard and Operability Studies
- Detailed Design
- Contract Award and Administration
- Construction Management
- Commissioning
- Optimisation and Training
- Handover

Our structured approach and management tools have enabled us to complete projects employing a “fast track” strategy. This ensures the client achieves production targets in the shortest time and in the most cost-effective means.

By means of our association with other Consulting and Contracting companies we also offer Environmental Impact Studies, Risk Assessments and other specialized designs, as part of our overall project service.

G&H have developed in-house Safety Management procedures and policies that are implemented on all our projects to ensure compliance to general industry and specific client requirements. Our effective management of safety is supported by the company’s exceptional safety record on project execution.

5 Staffing

G&H has grown rapidly in recent years and has a present staff complement of approximately 190, comprising the following main disciplines and project functions:

• Directors	6
• Project Managers	8
• Process Engineers	4
• Project & Mechanical Engineers	18
• Structural/Civil Engineers & Designers	6
• Materials Handling Consultant	1
• 2D and 3D Design Office	60
• Estimators	1
• Procurement and Contracts	6
• Cost Control	5
• Planning	4
• Safety	5
• Construction Staff	10
• Administration	10

6 Associated Companies

G&H has a close business and technical relationship with various other specialist consultants in the industry such as the following:

i-Control cc.	-	E&I Design Engineers
EHL Consulting Engineers	-	E&I Design Engineers
BIE Consultants	-	QA/QC and Expediting
PCC Consultants	-	Quantity Surveyors
CES Consultants	-	Quantity Surveyors
Anmar –B.R.S.	-	Furnace and Refractory Installations

Polokwane Smelter



Lion Ferrochrome





7 Contacts

SAMANCOR HOUSE
88 MARSHALL STREET
MARSHALLTOWN
JOHANNESBURG 2001

P.O. BOX 64344
HIGHLANDS NORTH
2037
RSA

TEL. +27 11 298 4000
FAX. +27 86 676 2440

Rhynhardt Huygen (Marketing Director)
Telephone No. +27 11 298 4057 (bus)
Cell phone No. +27 82 552 9673

Motty Greenblat (Managing Director)
Telephone No. +27 11 298 4059 (bus)
Cell phone No. +27 82 804 3885

Bill Hutton (Financial Director)
Telephone No. +27 11 298 4050 (bus)
Cell phone No. +27 82 804 3886