

GBM

FEASIBILITY STUDIES PROJECT MANAGEMENT ENGINEERING PROCUREMENT CONSTRUCTION MANAGEMENT



CAPABILITY STATEMENT

bsi.



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

GBM Minerals Engineering Consultants Ltd
Regal House
70 London Road
Twickenham
TW1 3QS
United Kingdom

Holds Certificate Number:

FS 80050

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

Assisting Clients with the development, design, engineering, project management, procurement, construction management and commissioning of new and existing mineral processing plants and infrastructure.

For and on behalf of BSI:


Andrew Launn, EMEA Systems Certification Director

Original Registration Date: 2004-07-01

Latest Revision Date: 2018-10-08

Effective Date: 2019-05-20

Expiry Date: 2021-10-07

Page: 1 of 1



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Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

GBM Minerals Engineering Consultants Ltd
Regal House
70 London Road
Twickenham
TW1 3QS
United Kingdom

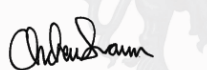
Holds Certificate Number:

EMS 595292

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

Assisting Clients with the development, design, engineering, project management, procurement, construction management and commissioning of new and existing mineral processing plants and infrastructure.

For and on behalf of BSI:


Andrew Launn, EMEA Sys Cert Ops & Compliance Director

Original Registration Date: 2014-11-07

Latest Revision Date: 2017-10-26

Effective Date: 2017-11-07

Expiry Date: 2020-11-06

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INTRODUCTION TO GBM

The GBM Group of Companies (GBM), of which GBM Limited is a member, was formed in 1994. We are a leading, independent firm of consulting engineers, specialising in the development, design, engineering, project management, procurement, construction management and commissioning of new and existing mineral processing plants and infrastructure. We perform front-end consultations, due diligence and independent reviews, mineral process and infrastructure designs, technical studies, Engineering, Procurement and Construction Management (EPCM) projects, cost estimations and financial analysis services.

Our personnel have decades of experience providing technical services to the mining industry in Africa, the Americas, Asia, Europe, Russia, Central Asian Republics, the Middle East, and Australia. GBM's experienced employees have worked extensively in the mining industry worldwide, and are specialists in current technologies and practices for the treatment of mineral bearing ores.

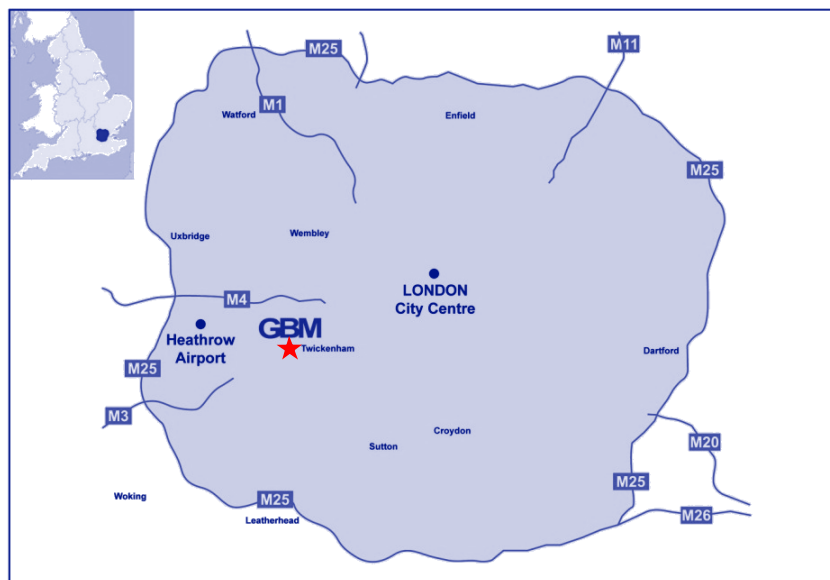
GBM has been certified by the British Standards Institution and deemed to operate Business Management Systems that comply with the requirements of BS EN ISO 9001:2015 for Quality Management and 14001:2015 for Environmental Management.

OFFICES

HEAD OFFICE

GBM's Head Office is located in Twickenham, 15 km south-west of London City Centre and 10 km from Heathrow Airport.

The Head Office is the hub of GBM's design, engineering and project management activities.



USA Division

GBM's USA division, GBM Engineers LLC, is an independent entity, offering full GBM services to Clients in the Americas.

SENIOR MANAGEMENT**MICHAEL SHORT – MANAGING DIRECTOR**

Michael, the founder of GBM, is a Chartered Engineer in both the UK and Australia, with over 40 years of project management and construction site experience. His expertise spans a vast range of projects, including large-scale dam construction, and the design and construction of gold, copper, lead, and zinc ore treatment plants in Africa, Central Asia, Russia, Europe, Asia and Australia. During this period, Michael worked as Project Manager, Construction Manager and Site Engineer on both greenfield and brownfield plants. He has gained significant experience in the preparation, administration and implementation of projects whilst working to Clients' requirements of quality, budget and time schedules.

**KEITH MCGINNIS – PRESIDENT, USA DIVISION**

Keith has more than 45 years of experience in engineering, procurement and construction of mineral processing facilities. He holds engineering and business degree qualifications and has a strong technical and financial background. Keith is experienced in plant design and construction, as well as the operation of mineral processing facilities, worldwide, in particular in the United States, South America, and Africa.

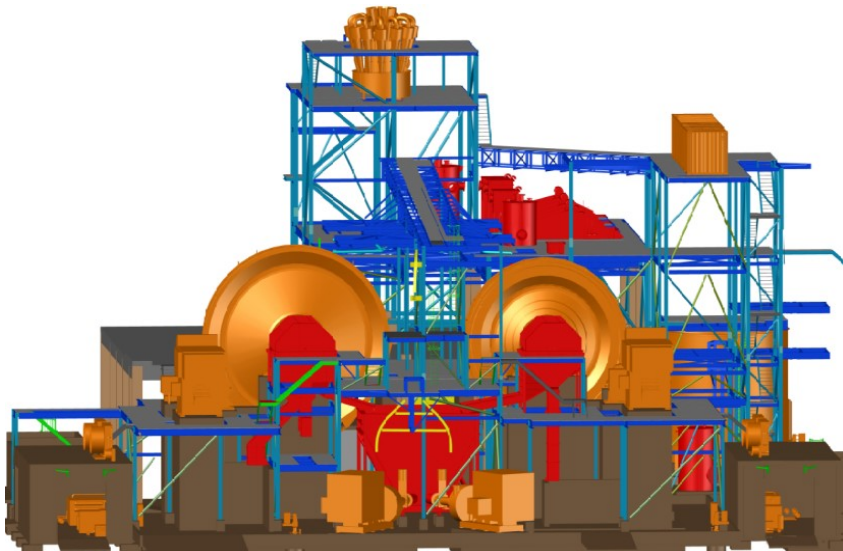
WHY GBM?

GBM is a boutique **process-driven multidisciplinary engineering** consultancy specialising in **mineral process plants** and associated **infrastructure**. Our relatively small size means we are agile and flexible, accustomed to working closely with our Clients to understand and deliver their requirements.

Our close-knit team is made up of **high energy, high effort individuals** with extensive experience in the minerals sector, which enables us to complete high quality work, on time and on budget.

We have **robust and mature systems**, that ensure the quality of our work, while still providing GBM with the flexibility to adjust our approach where necessary for individual projects.

We pride ourselves on being **independent**. We are not affiliated with any laboratories, equipment suppliers or other consultancies and this allows us to **act solely in our Client's interests**, specifying the most appropriate technical solution and team for each project.



FROM CONCEPT TO PRODUCTION



GBM SERVICES

GBM's experienced personnel have executed over 560 assignments for more than 230 Clients in 85 countries during the last two decades, as well as working alongside various other large EPCM companies over the last 40 years. These projects and assignments include:

- Studies
 - Desktop
 - Scoping / Preliminary Economic Assessment
 - Pre-Feasibility Study
 - Feasibility Study / Definitive Feasibility Study
 - Front End Engineering Design (FEED)
- Execution
 - Engineering Procurement and Construction Management (EPCM)
 - Engineering, Procurement and Construction (EPC) / Lump Sum Turnkey (LSTK) Projects
- Services
 - Engineering Services
 - Project Management
 - Client Representation
 - Commissioning and Training
 - Plant Management
- Advisory
 - Metallurgical Reviews
 - Testwork Programme Design and Management
 - Due Diligence / Competent Persons Review

A list of assignments and projects GBM is currently working on, or has recently completed, may be found from page 17 onwards.

GBM EXPERTISE

GBM's personnel have expertise across a wide range of engineering and related disciplines. These areas of expertise include:

- Process Engineering and Metallurgy
- Mechanical Equipment Engineering
- Materials Handling Engineering
- Piping Engineering
- Civil Engineering
- Structural Engineering
- Electrical Engineering
- Instrumentation and Control Engineering
- CAD Modelling and Drafting
- Project Management
- Project Engineering
- Project Controls
- Cost Estimation
- Procurement
- Construction Management
- Commissioning



GBM SERVICES

STUDIES

Scoping Studies and **Preliminary Economic Assessments** are executed as an initial assessment of project potential. Engineering is carried out at high-level, and with a cost accuracy of $-50 +100\%$ (AACE Class 5) by a team of experienced metallurgists and mineral process engineers, selected specifically to meet the Client's requirements.

Pre-Feasibility or **Options Studies** refine and optimise the process designs identified by earlier studies. Project infrastructure and cost estimates are developed at this level of study to identify best options. Engineering carried out during this phase is more detailed than that of earlier studies, resulting in a cost accuracy of $-30 +50\%$ (AACE Class 4), allowing for an informed investment decision.

Feasibility Studies develop engineering on the scenario identified in the earlier studies. Significant engineering is required to produce capital and operating cost estimates, to a cost accuracy of $-15 +20\%$ (AACE Class 3). Metallurgical testwork is also completed during this phase, in order to optimise the identified processes and mass/water balances. All major equipment is sized and general arrangement drawings are produced. The results are summarised into a Feasibility Study report with sufficient definition to underpin investment decisions.

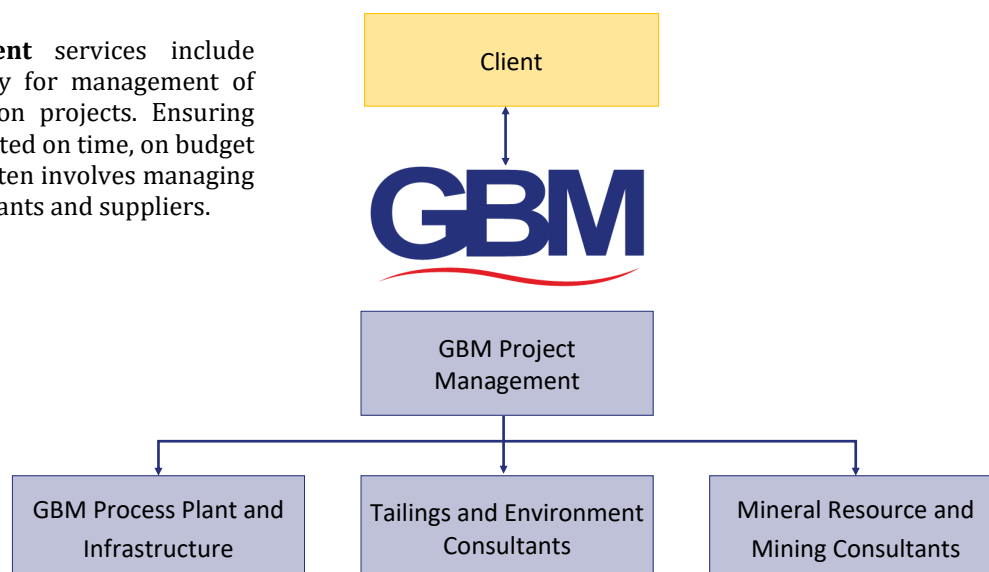
Front End Engineering Designs (FEED) undertake engineering with the purpose of defining the project design in an engineering package to allow EPC tendering processes to be run.



SERVICES

GBM provides a wide range of **Engineering Services** for process plant and infrastructure projects. **Conceptual, Basic and Detailed Engineering** phases are covered. Scopes vary from identifying solutions for specific operational problems to developing design packages ready for construction. Projects may be small brownfields upgrades through to complete greenfields plant design.

Project Management services include overall responsibility for management of studies and execution projects. Ensuring the project is completed on time, on budget and to scope. This often involves managing multiple sub-consultants and suppliers.



Client Representation services cover both technical and commercial elements of a Client team. GBM Technical Client Representatives support the Client's own field staff or lead the Client's own effort, managing the Engineer or Contractor responsible for design and construction of the works by monitoring and driving project progress and quality during the engineering and construction phases of the project. GBM Commercial Client Representatives support Client's by preparing, issuing and evaluating project tender documents for identifying, selecting and appointing EPCM consultants and EPC contractors, among others. This can include preparing bespoke terms and conditions of contract and negotiating the Client's specific requirements.

Commissioning and Training services commence upon mechanical completion of the plant or system. GBM Commissioning teams plan, manage and execute pre-commissioning, cold commissioning and hot commissioning within defined system extents, after which GBM provides supervision and training of operations staff.

Plant Management services include managing all aspects of large and small scale mineral processing plants, infrastructure and mining operations. GBM's team has extensive knowledge of balancing plant operations with maintenance of supporting infrastructure, such as buildings, roads, waste dumps, tailings dams, water and electrical supply systems. Our site teams are supported by GBM's home office professionals under a unified management framework.

GBM provides all personnel and systems for:

- Plant Management and Metallurgy
- Plant Operation
- Operator Training
- Maintenance
- Administration

ADVISORY

Metallurgical Reviews are specialist laboratory testwork reviews focussed on interpretation for industrial scale plant design, gap identification and further optimisation of process design for enhanced project performance.

Testwork Programme Design and Management involves developing metallurgical testwork programmes that are planned to support design engineering requirements, are managed by GBM and executed under GBM supervision at independent certified laboratories selected by competitive tendering to best suit the project requirements.

Due Diligence and **Competent Persons Review** are undertaken by expert in house teams focussed on process plant and infrastructure project scope who lead external associates as required for geology, mining, tailings and environmental project elements resulting in comprehensive reviews of mining and infrastructure projects.

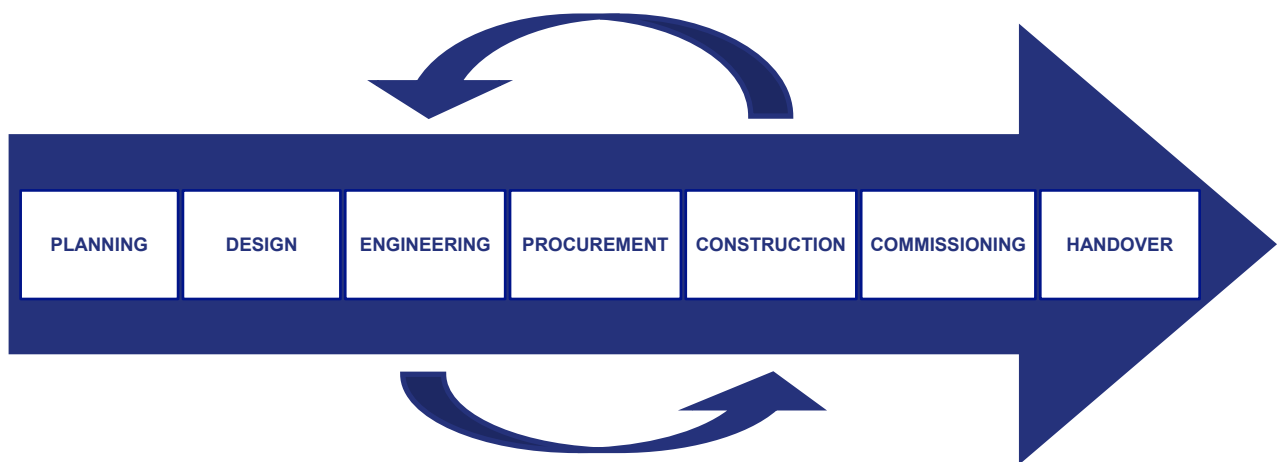


EXECUTION

GBM's specialist teams are experienced at completing **Engineering, Procurement and Construction Management (EPCM)**, **Engineering, Procurement and Construction (EPC)** and **Lump Sum Turnkey (LSTK)** projects for mineral process plants and associated infrastructure in remote locations worldwide.

The EPCM project delivery model appoints GBM as a consultant responsible for project planning, process design, basic and detailed engineering, procurement, construction management and commissioning, while the EPC and LSTK delivery model involves GBM being appointed as a contractor responsible for completing construction activities in addition to providing construction management services.

GBM's experienced project management teams work closely with our technical teams of engineers and construction personnel to deliver these large scale execution projects within scope, on time and in budget.



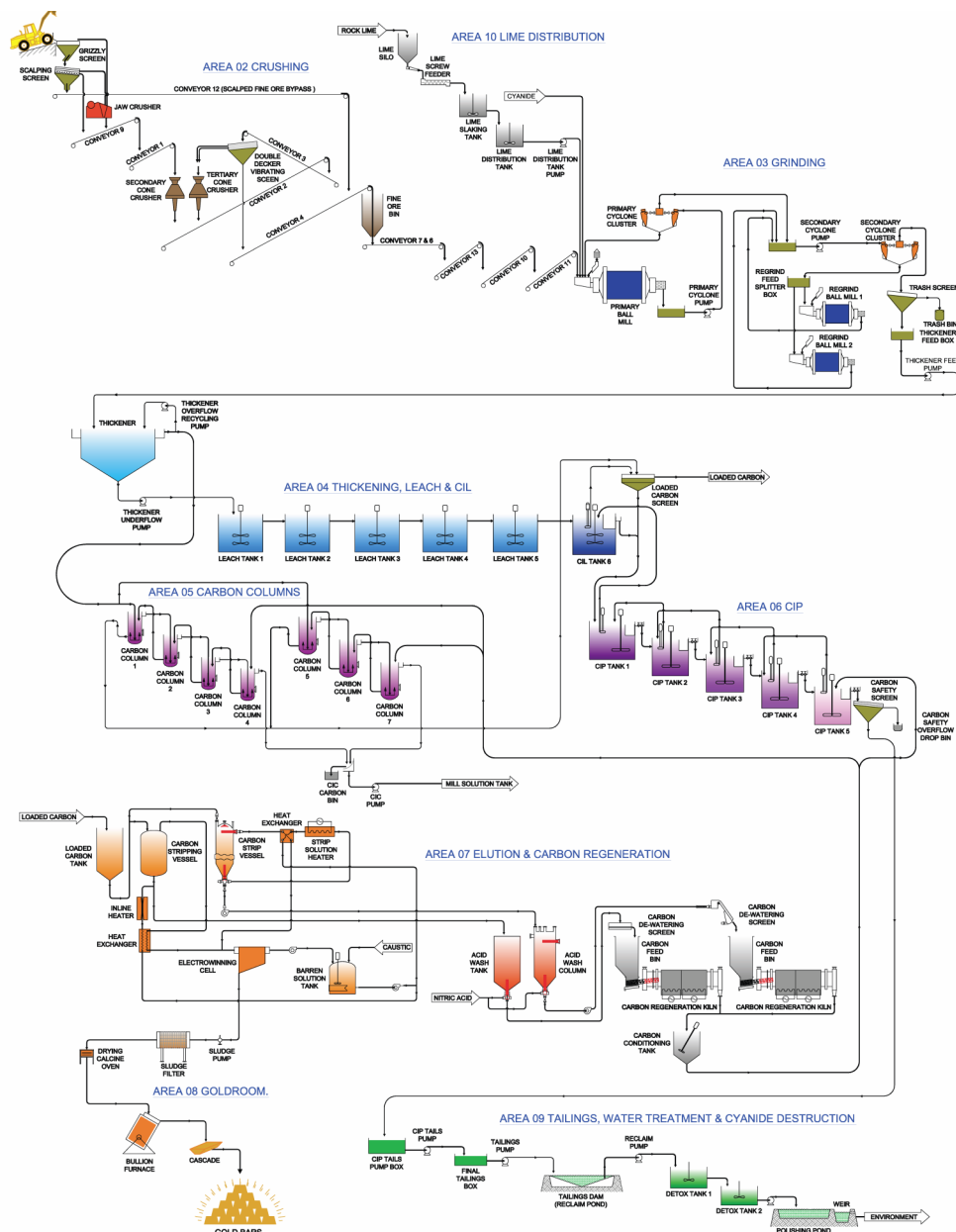
GBM EXPERTISE

The GBM team have extensive experience working across the full project lifecycle for ore processing plants, mines, industrial facilities and civil engineering projects, worldwide.

PROCESS ENGINEERING AND METALLURGY

Process Engineering and Metallurgy Team consists of in house metallurgists, chemical and process engineers, and can be supplemented with specific process experts from GBM's associate network. The team possesses rich experience in engineering design for comminution, beneficiation and hydrometallurgical processes across a wide range of mineral resources. Option and trade-off studies for project optimisation are integral to GBM's design workflow.

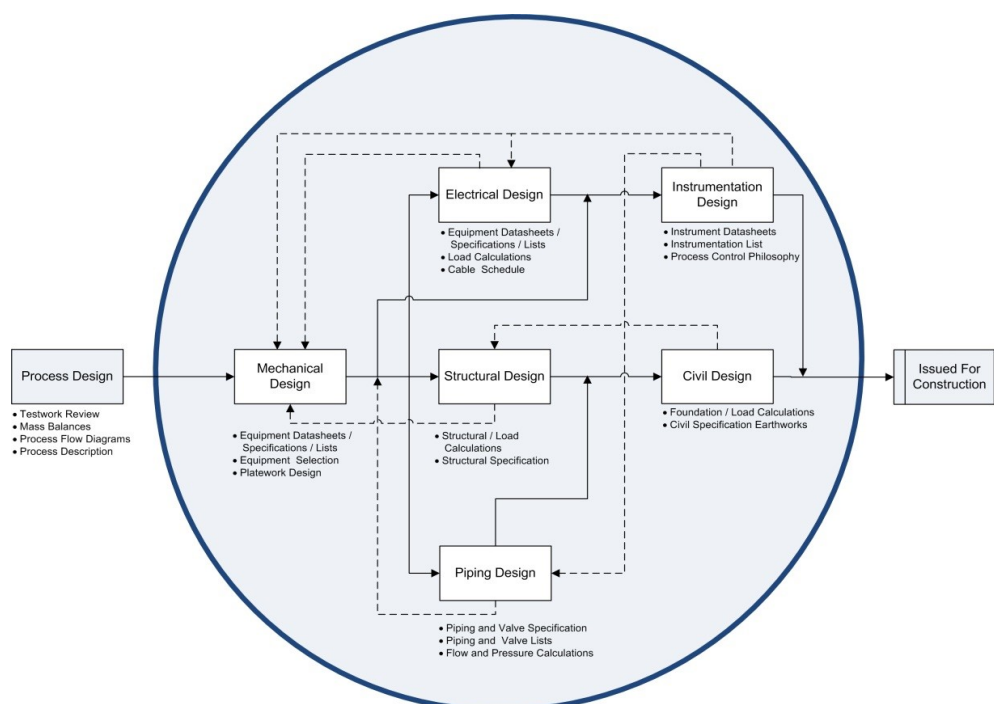
GBM's process engineering and metallurgy team are skilled at undertaking metallurgical reviews, designing and managing metallurgical testwork programmes, undertaking due diligence studies and completing process designs for all types of projects from early feasibility studies through to execution projects. The team are also experienced in commissioning a wide range of process plants.



ENGINEERING

GBM is a multi-disciplinary engineering consultancy employing a wide range of highly qualified, skilled and experienced technical engineers with expertise across the following disciplines:

- **Mechanical Equipment Engineering Team** specialises in developing the equipment layout and specification. The team is intimately familiar with current process technologies across many unit operations. GBM takes pride in remaining independent of commercial suppliers, and always recommend the best equipment for the project.
- **Materials Handling Engineering Team** specialises in the design of full bulk materials handling systems, including conveyor design, and wet and dry platework design.
- **Piping Engineering Team** develop piping system specifications to suit process plant temperature, pressure and other fluid properties for solution and slurry services. GBM designs comply with required regional standards including Eurocodes, ASME, GOST, AS/NZS, or JIS.
- **Civil and Structural Engineering Team** designs buildings, plant supporting structure, and process facilities including equipment foundations, retaining walls, material storage bins, tanks, heap leach pads, ponds, and site infrastructure such as roads and drainage. The team has international experience with various local and regional codes such as EN/ISO, GOST and SNiP.
- **Electrical Engineering Team** completes the design of electrical generation and distribution systems, using conventional fuels; solar or hydroelectrical generation; or connection to grid power. The distribution systems capability includes HV/MV/LV system analysis, design and reticulation, load flow and earthing designs.
- **Instrumentation and Controls Engineering Team** has expertise in the selection of technologies for both wet and dry materials processing and handling, spanning from the automation of low-level local control to advanced PLC/SCADA control systems. Our team has extensive experience implementing traditional I/O and the latest fieldbus technologies (Profibus, Modbus, Devicenet), and communication networks utilising industrial Ethernet and fibre optic technologies.



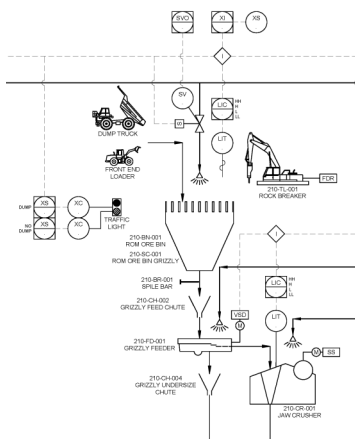
CAD DRAFTING AND MODELLING

GBM's design and drawing office operates using the Autodesk AutoCAD based plant and infrastructure design suites to support the design and construction management services.

Key software packages include AutoCAD Piping and Instrumentation Diagrams (P&IDs), AutoCAD Plant 3D, Inventor, Civil 3D and Navisworks.

These programmes are used to create the project layout. CAD modelling, drawing production and material take-offs are developed for the plant. The resulting 3D models are compiled in Navisworks for Client review, along with an accurate Bill of Quantities.

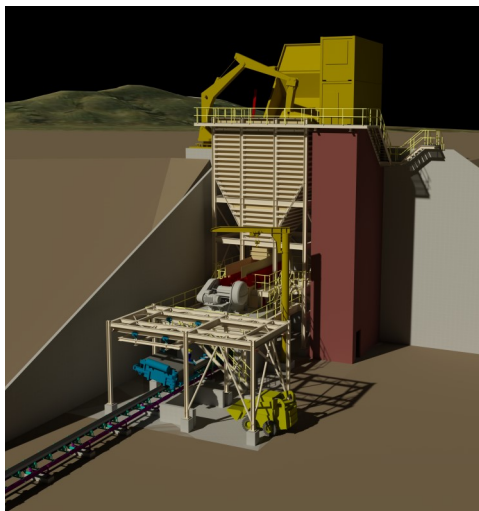
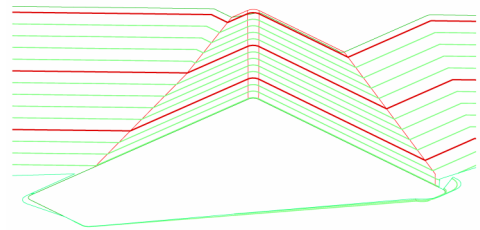
AutoCAD P&ID



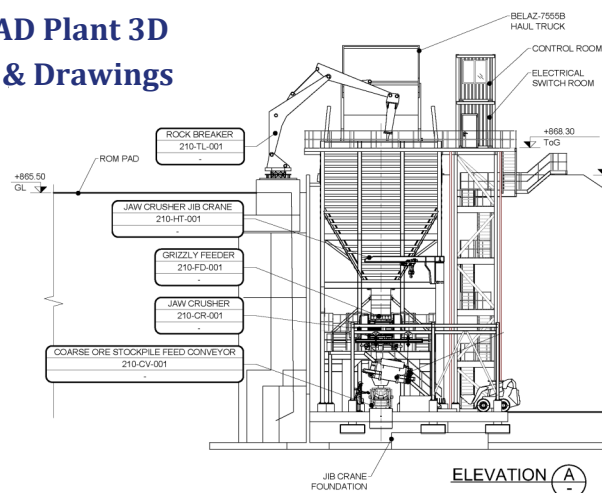
Inventor



AutoCAD Civil 3D



AutoCAD Plant 3D Model & Drawings



Navisworks

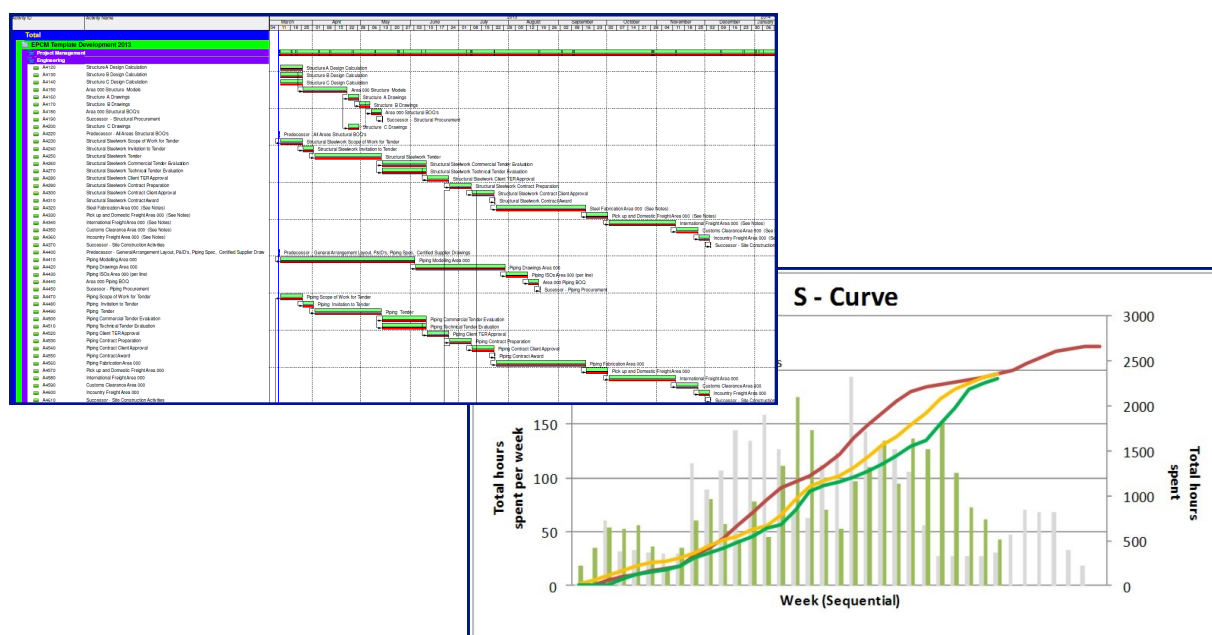


PROJECT MANAGEMENT

GBM's **Project Managers** perform a key role on projects ensuring that high quality services are provided, along with accurate budgeting and timely scheduling. To ensure this, GBM's dedicated **Project Managers** are the primary point of contact with the Client during the project's completion. The **Project Managers** co-ordinate GBM's engineering, procurement and construction teams, as well as external third parties, such as testwork providers, and resource, mining, tailings and environmental consultants.

PROJECT CONTROLS

During the execution of GBM's awarded contracts, the **Project Controls Team** provides important planning and cost control services, working closely with project managers to ensure that project scopes are completed to budget and schedule. Project Planners develop and manage project schedules using either MS Project or Primavera P6. This includes preparing and maintaining baseline project schedules, progressing schedules, undertaking critical path analyses, and reporting on project earned value metrics. Cost Controllers create a baseline control budget, and then control commitments, expenditure and budget changes against that budget, and forecast project cashflow requirements.



COST ESTIMATION

GBM's experienced **Cost Estimating Team** consists of technical engineers and procurement personnel who work closely together to produce capital and operating cost estimates on projects, with different levels of accuracy depending on project requirements. GBM has aligned itself with the Association for the Advancement of Cost Engineers for cost estimation purposes. GBM's **Cost Estimating Team** are also skilled at preparing financial models to allow optimisation of project financial performance.

PROCUREMENT

The **Procurement Team** have in depth knowledge of suppliers and contractors in the minerals and metals processing industries and work with our technical engineers to obtain budget pricing for studies, and complete formal tender processes for EPCM, EPC and LSTK projects. GBM's **Procurement Team** manages tender processes, supplier negotiations and contract awards, along with expediting receipt of technical documentation and physical goods and materials. Contracts typically cover mechanical and electrical equipment, fabrication works, site installation and construction works, and service contracts, such as freight forwarding.

CONSTRUCTION MANAGEMENT

GBM's **Construction Management Team** consists of skilled and dedicated personnel with extensive experience at working on-site in remote and difficult regions, with a focus on ensuring the smooth delivery of the project's on-site construction phase, whilst adhering to the project schedule, and delivering high quality construction, accurate budgeting, and mandatory safety protocols.

- **Construction Managers** oversee the entire construction phase, liaising with all teams involved, from the Client to the subcontracting labourers.
- **Site Engineers and Supervisors** perform the technical, organisational and supervisory roles for construction projects. These are generally the same highly qualified engineers who have worked on the engineering designs, allowing for project continuity and Client satisfaction. The team ensures compliance with the engineering design and is on-hand to provide technical advice.
- **Site Planners** are an integral part of the construction management team to ensure adherence to the construction schedule, and provide advice for minor schedule alterations, if necessary. GBM's site planners have extensive experience liaising with external contractors and suppliers on international projects, and facilitating all phases of the construction development.
- **Materials Controllers** operate site material controls and stockyard management systems, including organising customs clearance and resolving any supply non-conformities, whilst ensuring equipment and materials are available when required.
- **Health and Safety Officers** ensure that all personnel adhere to GBM's strict on-site health and safety protocols, whilst guaranteeing compliance with government legislation. In accordance with our zero-harm approach to health, safety and environment, our Health and Safety Officers are responsible for continuous improvements to site safety by co-ordinating and monitoring safety inspections, risk analysis and hazard identification procedures.

COMMISSIONING

GBM's senior process engineers have significant experience acting as **Commissioning Managers** leading a team of discipline engineers to plan and execute the commissioning phases of process plants from mechanical completion through to Client handover for operations.



SYSTEMS

GBM is certified and operates an integrated, mature Business Management System in accordance with the requirements of BS EN ISO 9001:2015, the internationally renowned process model for quality management.

GBM's Business Management System applies across the whole organisation and consists of policies and procedures relating to quality, health and safety, environmental, corporate social responsibility and anti-bribery, in addition to a comprehensive set of procedures that have been established for project related work.

GBM's internal systems use the Microsoft SharePoint interface to store, control and manage our documents and systems. This cloud-based system allows for full document management both in the office and remotely, whilst additionally providing a portal for our Clients to gain access to relevant and approved documentation.

GBM's technical software includes the following programmes:

- **HSC Chemistry** for mass and component balances
- **Bruno** for mass and component balances
- **PlantDesigner** for mass and component balances
- **SysCAD** for process simulation and mass balances
- **FluidFlow** for pipe and flow design calculations
- **BeltStat** for conveyor design
- **Rocky** for Discrete Element Modelling (DEM) for ore flow analysis and chute design
- **StaadPro** for complex structural designs



CURRENT AND RECENTLY COMPLETED PROJECTS

EUROPE



Title	Client Company	Country	Project Type	Resource
Spac Copper Mine, Albania	Albanian Cu Mine (Hooper)	Albania	Site Inspection	Copper
Nickel Laterite Options Study	Balkan Resources	Albania	Desktop Study	Nickel
Metallurgical Part of Due Diligence	SRK Consulting (UK)	Albania	Metallurgical and Testwork Services	Copper
Mech. Engineer. for Chelopech Mine	Dundee Precious Metals Inc.	Bulgaria	Engineering - Services	Gold; Copper
BFS on Madjarovo and Spahievo Gold Projects	Euraust Mineral Developments Pty Ltd	Bulgaria	Bankable Feasibility Study	Gold
PFS for KLIROV Cu/Zn Project	EMED Mining Public Limited	Cyprus	Pre-Feasibility Study	Copper; Zinc
Talvivaara Project	Nevsun Resources Ltd	Finland	Due Diligence	Nickel; Zinc
Keiliber Lithium Plant	Nordic Mining	Finland	Due Diligence	Lithium
NRI Fennoscandian Iron Ore	Wardell Armstrong International	Finland	Desktop Study	Cobalt; Iron
BFS Pampalo Project	Endomines OY	Finland	Bankable Feasibility Study	Gold
Phase II Technical Assistance - Kiln Engineering/Construction	Mines d'Or de Salsigne	France	Engineering - Services	Gold
Phase I Technical Assistance - Procurement of New Kiln	Mines d'Or de Salsigne	France	Engineering - Services	Gold
Sakdrisi Heap Leach Project		Georgia	Engineering - Services	Gold
Barite & Heap Leach Tailings Reclamation Project	Quad Consulting Ltd	Georgia	Bankable Feasibility Study	Gold
Due Dilligence – Chiatura-Vartsikshe Ferro Project	Wardell Armstrong International	Georgia	Due Diligence	Manganese
Proj. Management of Rustavi Refurb.	Asian Global Opportunity Fund (AGOF)	Georgia	Project Management Services	
Due Diligence Cu/Au Project	London International Bank	Georgia	Due Diligence	Copper; Gold
Kiefernberg Ni-Saprolite/Laterite Project	Deutsche Rohstoff	Germany	Desktop Study	Nickel
Revise Capex for Sappes	SRK Consulting (UK)	Greece	Cost Estimate	Gold
Perama Hill Gold Mine Project	Thracian Gold Mining	Greece	Metallurgical and Testwork Services	Gold
Perama Hill Gold Mine Project	Thracian Gold Mining	Greece	Pre-Feasibility Study	Gold
Black Angel Option Study	Angel Mining PLC	Greenland	Scoping Study	Lead; Zinc
Black Angel Project	Angel Mining PLC	Greenland	Procurement and Contract Services	Lead; Zinc
Nalunaq Project	Angel Mining PLC	Greenland	Construction Management Services	Gold
Black Angel Project	Angel Mining PLC	Greenland	Engineering - Services	Lead; Zinc
Engineering for Nalunaq	Greenland Mining	Greenland	Engineering - Services	Gold
Basic Engineering, GA's, PFD's, P&ID's	Greenland Mining	Greenland	Engineering - Services	Lead; Zinc
Nalunaq - Visit to Site and Preliminary Engineering Work	Greenland Mining	Greenland	Site Inspection	Gold
DMS Plant - Design & Costing, Black Angel	Wardell Armstrong International	Greenland	Bankable Feasibility Study	Lead; Zinc
Nalunaq Gold Project (Geological Sections)	Snowden (UK)	Greenland	Engineering - Services	Gold
Malmbjerg Mo Project	SRK Consulting (UK)	Greenland	Due Diligence	Molybdenum
Pre Scoping Study, ISUA Magnetite Project	London Mining PC	Greenland	Scoping Study	

EPCM of Gold Plant	Crew Development UK Ltd	Greenland	Engineering - Preliminary	Gold
Magnetite Project, Isua	London Mining PC	Greenland	Study Review	
Nalunaq Gold Project	Crew Development UK Ltd	Greenland	Engineering - Basic	Gold
Nalunaq Gold Project	Crew Development UK Ltd	Greenland	Engineering - Services	Gold
Gorno Zinc Project	Energia Minerals Ltd.	Italy	Engineering - Services	Zinc; Lead
Gorno Zinc Project	Energia Minerals Ltd.	Italy	Engineering - Services	Zinc; Lead
Gorno Zinc Project	Energia Minerals Ltd.	Italy	Engineering - Services	Zinc
Preliminary Engineering and GA Drawings for Zinc Refinery	MRM Limited	Italy	Engineering - Preliminary	Zinc
Kosovo Blast Furnace Slag Lead -Zinc Project	AllMetex	Kosovo	Metallurgical and Testwork Services	Lead; Zinc
Slag Dump Recoveries	AllMetex	Kosovo	Definitive Feasibility Study	Lead; Zinc
Tripca Lead Refinery Refurbishment	European Agency for Reconstruction	Kosovo	Engineering - Services	Lead
Due Diligence of Pb/Zn Process Plant	SRK Consulting (UK)	Macedonia	Metallurgical and Testwork Services	Lead; Zinc
Due Diligence of Sydvaranger Project	Crew Development UK Ltd	Norway	Study Review	Iron
Lombador Project	Sociedade Mineira de Neves-Corvo,S.A (SOMINCOR)	Portugal	Metallurgical and Testwork Services	Lead
Evaluate Equipment at Aljustrel Plant	Sociedade Mineira de Neves-Corvo,S.A (SOMINCOR)	Portugal	Site Inspection	
Update Asset Valuation of Aljustrel Plant	Eurozinc Mining Corporation	Portugal	Valuation	
Aljustrel Mine Asset Valuation	Sociedade Mineira de Neves-Corvo,S.A (SOMINCOR)	Portugal	Valuation	Lead; Silver; Zinc
Tynagh Project	Tynagh Iron Mines Limited	Republic of Ireland	Metallurgical and Testwork Services	Iron
Lisheen Mine Closure	ERM	Republic of Ireland	Due Diligence	Zinc
Review of Lisheen Project Feasibility Study	MICON International Ltd	Republic of Ireland	Study Review	Lead; Zinc
Review of Metallurgical Flowsheets	ARCON Mines Ltd	Republic of Ireland	Study Review	Lead; Zinc
Technical and Management Assistance with Galmoy Negotiations	ARCON Mines Ltd	Republic of Ireland	Engineering - Services	Lead; Zinc
Evaluation of Galmoy Tenders	ARCON Mines Ltd	Republic of Ireland	Engineering - Services	Lead; Zinc
Polovragi Graphite Project	SC IPSUM GROUP SRL	Romania	Engineering - Services	Graphite
Valea Calugareasca Project	The Mega Company	Romania	Metallurgical and Testwork Services	Gold; Iron
Romaltyn Tailings Processing Project	Romaltyn Mining	Romania	Construction Management Services	Gold
Technical Review of Rosia & Moldova Plants	Wardell Armstrong International	Romania	Engineering - Services	
Rosia Poieni-Feasibility/Base Line Studies	Golder Associates (UK) Ltd	Romania	Metallurgical and Testwork Services	
Technical Due Diligence to 43 - 101	Roscoe Postle Associates Inc. (RPA)	Romania	Study Review	Gold
Report on Mining Plans for Baiut Breiner Project	Carpathian Gold Ltd	Romania	Engineering - Services	
Monitor Metallurgical Testwork for Baia Mare Project	Carpathian Gold Ltd	Romania	Metallurgical and Testwork Services	
Report on Metallurgical Process Plants at Baia Mare	Carpathian Gold Ltd	Romania	Metallurgical and Testwork Services	
Preliminary Testwork and Engineering for Certej Project	Red Back Mining NL	Romania	Metallurgical and Testwork Services	Gold
Cononish Gold Plant Review Report	AMC Consultants (UK) Ltd	Scotland	Engineering - Services	Gold
Review of Metallurgical Testwork Reports	Red Back Mining NL	Scotland	Metallurgical and Testwork Services	Copper; Nickel
Copper Tailings Treatment Plant, Bor, Serbia	Consolidated Mining and Investments	Serbia	Scoping Study	Copper
Inspect Cu Smelter	Wardell Armstrong International	Serbia	Metallurgical and Testwork Services	Copper

Copper Floatation Plant	SRK Consulting (Canada)	Serbia	Due Diligence	Copper
Sturec Gold	ORTAC Resources	Slovakia	Pre-Feasibility Study	Gold
Review of Molybdenum and Zeolite Mining Prospects	Euraust Mineral Developments Pty Ltd	Slovakia	Metallurgical and Testwork Services	Molybdenum; Zeolite
Los Frailes Project	Wardell Armstrong International	Spain	Engineering - Services	Copper; Lead; Silver; Zinc
Mazarron Project	Starboard Global Limited	Spain	Desktop Study	Lead; Zinc
Penouta Project	Duro Felguera S.A.	Spain	Feasibility Study	Tantalum; Tin
Sukari - IES Factory visit	Sukari Gold Mines	Spain	Site Inspection	Gold
Salamanca Project	Wardell Armstrong International	Spain	Due Diligence	Uranium
Cost Study of On-Site Copper Production	AMC Consultants (UK) Ltd	Spain	Cost Estimate	Copper
Rio Tinto Mine Restart Study	AMC Consultants (UK) Ltd	Spain	Engineering - Services	Copper
Cu Concentrator	EMED Mining Public Limited	Spain	Due Diligence	Copper
Aguas Tenidas	SRK Consulting (UK)	Spain	Scoping Study	Copper
Due Diligence in Oviedo & Seville	ACA Howe International Ltd	Spain	Metallurgical and Testwork Services	Copper; Gold
Due Diligence of Navan Projects	ACA Howe International Ltd	Spain	Due Diligence	Zinc; Copper
Nordic Iron Ore Project	Golder Associates (UK) Ltd	Sweden	Feasibility Study	Iron
FAME Project	Wardell Armstrong International	Sweden	Engineering - Services	
Norra Kärr and Olserum Projects	Tasman Metals AB	Sweden	Engineering - Services	Rare Earths
Woxna Graphite Restart Project	Flinders Resources	Sweden	Engineering - Services	Graphite
Norra Kärr Project PFS	Tasman Metals AB	Sweden	Pre-Feasibility Study	Rare Earths
Norra Kärr Project Metallurgical Testwork	Tasman Metals AB	Sweden	Metallurgical and Testwork Services	Rare Earths
Plant Inspection & Evaluation (Bjorkdal)	Gold Ore Resources	Sweden	Site Inspection	Gold
Inspection of Plant and Equipment	Crew Development UK Ltd	Sweden	Site Inspection	Gold
Assistance with Materials Handling	Worley Parsons	Ukraine	Engineering - Services	
Bobrikovsky Au Project	Barry Oakes	Ukraine	Scoping Study	Gold
DMS Plant	SRK Consulting (UK)	Ukraine	Project Management Services	
European Equipment for Yenakievo Sinter Project	SRK Consulting (UK)	Ukraine	Pre-Feasibility Study	Iron
Copper-Cobalt Market Review	Frontera Capital Limited	United Kingdom	Engineering - Services	Cobalt; Copper
Worley Parsons Engineering Services	Worley Parsons	United Kingdom	Engineering - Services	Iron
Minex Process	Minex	United Kingdom	Engineering - Services	
York Potash - NPK Plant	York Potash Ltd	United Kingdom	Engineering - Services	Potash
York Potash - Geotech	York Potash Ltd	United Kingdom	Engineering - Services	Potash
York Potash Project DFS (with NPK)	York Potash Ltd	United Kingdom	Definitive Feasibility Study	Potash
Waterbeach Project	Bam Nuttall Limited	United Kingdom	Engineering - Services	
York Potash Project	York Potash Ltd	United Kingdom	Engineering - Services	Potash
Technology Evaluation	Delta Energy and Environment	United Kingdom	Due Diligence	
Calculations for Slurry Pipe and Pumps	Behre Dolbear International Ltd	United Kingdom	Engineering - Services	
Inspection of Omagh Mine Project	Galantas	United Kingdom	Site Inspection	Gold; Lead; Silver
Sappes Capex Review	Greenwich Resources	United Kingdom	Study Review	Gold
Preliminary Engineering for Gold Project	Galantas	United Kingdom	Engineering - Detailed	Gold
Currihinalut Engineer	Tournigan Gold Corporation	United Kingdom	Scoping Study	Gold

MIDDLE EAST


Title	Client Company	Country	Project Type	Resource
Zarkashan Copper-Gold Project	AD Capital	Afghanistan	Client Representative Services	Copper; Gold
Hajigak Project	Kilo Iron Ore Limited	Afghanistan	Engineering - Services	Iron
Hajigak Iron Ore Project	Kilo Goldmines Ltd	Afghanistan	Client Representative Services	Iron
Preliminary Engineering Study and Site Visit	Reece Consolidated Minerals	Afghanistan	Engineering - Preliminary	Engineering - Preliminary
PFS for KLIROV Cu/Zn Project	EMED Mining Public Limited	Cyprus	Pre-Feasibility Study	Copper; Zinc
Sukari Gold - Crusher Building	Sukari Gold Mines	Egypt	Engineering - Detailed	Copper; Gold
SGM Stage 5 New Primary Crusher	Sukari Gold Mines	Egypt	Engineering Procurement and Construction Management	Gold
Sukari Gold Mine Stage 4 Expansion	Sukari Gold Mines	Egypt	Engineering Procurement and Construction Management	Gold
Sukari Gold Mine Stage 4 Expansion	Sukari Gold Mines	Egypt	Engineering Procurement and Construction Management	Gold
Services of Garrick Allen to Assist Owner on EL LAJJUN Oil Shale Project.	Jordan Energy & Mining Ltd	Jordan	Client Representative Services	Oil and Gas
Mahab 4 and Yanqul-Rakah Projects	Gentor Resources Inc.	Oman	Engineering - Services	Copper; Gold
Al Hajar Copper and Zinc Project	Ma'aden	Saudi Arabia	Desktop Study	Copper; Zinc
Al-Hajar Copper-Zinc Project (BFS)	Ma'aden	Saudi Arabia	Bankable Feasibility Study	Copper; Zinc
Ad Duwayhi Gold Project	Ma'aden	Saudi Arabia	Engineering - Basic	Gold
Al-Hajar Copper-Zinc Project	Ma'aden	Saudi Arabia	Pre-Feasibility Study	Copper; Zinc
Khnaiguiyah Zn/Pb P.F.Study	United Arabian Mining Company (Manajem)	Saudi Arabia	Feasibility Study	Zinc
Due Diligence on Phosphate Project	Behre Dolbear International Ltd	Saudi Arabia	Due Diligence	Phosphate
Ma'aden Privatisation	SRK Consulting (UK)	Saudi Arabia	Metallurgical and Testwork Services	Gold; Silver
Ad'Duwayhi Met Testwork II	Ma'aden	Saudi Arabia	Metallurgical and Testwork Services	Gold
Al Hajar Crushing Plant	Ma'aden	Saudi Arabia	Engineering - Services	Gold
Study of Ghurayyah Tantalum Project	St Barbara	Saudi Arabia	Engineering - Services	Tantalum
Study for Al Amar Mine	Ma'aden	Saudi Arabia	Engineering - Services	Gold; Copper; Zinc
Ad'duwayah Met Testwork I	Ma'aden	Saudi Arabia	Metallurgical and Testwork Services	Gold
Feasibility Study to ±15% accuracy for Al Amar Mine	Ma'aden	Saudi Arabia	Feasibility Study	Gold; Copper; Zinc
Monitor Al-Amar Bulk Ore Test at Mahd Ad'Dahab Mine	Ma'aden	Saudi Arabia	Metallurgical and Testwork Services	Gold; Copper; Zinc
Preparation of revised metallurgical testwork programme for Al-Amar ores	Ma'aden	Saudi Arabia	Metallurgical and Testwork Services	Gold; Copper; Zinc

SOW for engineering package for 500 tpd process plant for Al-Amar Project	Ma'aden	Saudi Arabia	Engineering - Services	Gold; Copper; Zinc
Study of HMS Process Route for Al-Amar Ore	Ma'aden	Saudi Arabia	Engineering - Services	Gold; Copper; Zinc
Metallurgical Testwork Programme for Al-Amar and Al-Khanaguiah ores	Ma'aden	Saudi Arabia	Metallurgical and Testwork Services	Gold; Copper; Zinc
Project Manager and Client's Representative for Al Amar Gold/Zinc Project	Ma'aden	Saudi Arabia	Client Representative Services	Gold; Zinc
Technical Assistance in writing LSTK Tender Documents for Al-Hajar and As Suq Projects	Ma'aden	Saudi Arabia	Engineering - Services	Gold
Technical Assistance on Desktop Study for Quartzite Mine at Umm' Ajar	Bin Harkil	Saudi Arabia	Desktop Study	Quartz
Writing Tender Documents and Evaluating Tenders for Al Amar Mine Project	Ma'aden	Saudi Arabia	Client Representative Services	Gold; Copper; Zinc
Procurement Assistance	CIT (Canada)	Saudi Arabia	Engineering - Services	
Detailed Proposal for Zarghat Magnesite Feasibility Study	Kaiser Engineers	Saudi Arabia	Engineering - Services	Magnesium
Feasibility Study for Al Amar Gold Project	Ma'aden	Saudi Arabia	Feasibility Study	Gold
Altintepe Gold Project	Stratex International Plc	Turkey	Engineering - Services	Gold
Bakirtepe Gold Project	Demir Export AS	Turkey	Engineering - Detailed	Gold
Inlice Gold Project	Inlice Madencilik A.S.	Turkey	Engineering - Services	Gold
Goynuk Concentrator Project	Tri-Star Resources Plc	Turkey	Pre-Feasibility Study	Antimony
Caldag Nickel Project	European Nickel Plc	Turkey	Client Representative Services	Cobalt; Nickel
Eng. Work on Pb/Zn Mill + Flot. Plant	SGS	Turkey	Engineering - Services	Lead; Zinc
Site Audit Canakkle Madenlik Zn/Pb Pl.	SGS Lakefield Research Europe	Turkey	Site Inspection	Lead; Zinc
Aliaga Study	St Barbara	Turkey	Engineering - Detailed	Zinc
KISLADAG PROJECT	AFCAN	Turkey	Site Inspection	Gold
Due Diligence on Bentonite	CEBO International BV	Turkey	Due Diligence	Bentonite
Pilot Plant	European Nickel Plc	Turkey	Engineering Procurement and Construction Management	Nickel
Metallurgical aspects of Due Diligence of Ovacik Gold Mine	AMC Consultants (UK) Ltd	Turkey	Metallurgical and Testwork Services	Gold
Onsite Investigation of Lead/Zinc Concentrator	Glencore International AG	Turkey	Metallurgical and Testwork Services	Lead; Zinc
Middle East Refractory Gold Project	Tri-Star Resources Plc	United Arab Emirates	Preliminary Economic Assessment	Gold
Antimony Hydrometallurgy Option Study	Tri-Star Resources Plc	United Arab Emirates	Pre-Feasibility Study	Antimony
Tri-Star Roaster Project	Tri-Star Resources Plc	United Arab Emirates	Pre-Feasibility Study	Antimony
Metallurgy for Techno-Economic Feasibility for Magnesium Extraction and Production Study	WS Atkins Plc	United Arab Emirates	Metallurgical and Testwork Services	Magnesium
EPCM Jabali	ZincOx Resources PLC	Yemen	Engineering - Basic	Zinc
DD of Zincox Project	St Barbara	Yemen	Due Diligence	Zinc

RUSSIA AND COMMONWEALTH OF INDEPENDENT STATES (CIS)



Title	Client Company	Country	Project Type	Resource
Azatek, Bazuun, Makmal, Aman Projects	Grange Mining Ltd	Armenia	Engineering - Services	Antimony; Copper; Gold; Silver
Lydian Gold	Wardell Armstrong International	Armenia	Feasibility Study	Gold
Azatek Polymetallic Project	Anglo-African Minerals plc	Armenia	Pre-Feasibility Study	Copper; Gold; Lead; Zinc
Azatek Polymetallic Project	Anglo-African Minerals plc	Armenia	Metallurgical and Testwork Services	Copper; Gold; Lead; Zinc
Aluminium Smelter Project – Owners Rep.	DETAL	Azerbaijan	Construction Management Services	Aluminium
Dashkesen Iron Ore Mine	DETAL	Azerbaijan	Study Review	Iron
Cost Estimate for Front End of HL Plant	Azerbaijan MIC	Azerbaijan	Cost Estimate	Gold
Alaigyr Lead-Silver Project	Ammar Project-2020 LLP	Kazakhstan	Engineering - Basic	Lead; Silver
Balasau Vanadium Project	Ferro Alloy Resources Limited	Kazakhstan	Competent Persons Review	Vanadium
Balasausqnadik Vanadium Project	Ferro Alloy Resources Limited	Kazakhstan	Competent Persons Review	Vanadium
Balasausqnadik Vanadium Project	Ferro Alloy Resources Limited	Kazakhstan	Competent Persons Review	Vanadium
Lomonosovskoye Project	Kazax Minerals Inc	Kazakhstan	Bankable Feasibility Study	Iron
Pustennoye Project	Wardell Armstrong International	Kazakhstan	Study Review	Gold
Sekisovskoye Project	Hambledon Mining	Kazakhstan	Engineering - Services	Gold
Akbakai Phase 2 Project	Wardell Armstrong International	Kazakhstan	Study Review	Gold
Sekisovskoye Project	Hambledon Mining	Kazakhstan	Engineering - Services	Gold
Sekisovskoye Project	Hambledon Mining	Kazakhstan	Metallurgical and Testwork Services	Gold
Seki Gold Project	Hambledon Mining	Kazakhstan	Engineering - Services	Gold
Akbakai Gold Plant	JSC AK Altynalmas	Kazakhstan	Engineering - Services	Gold
Seki Gold Project	Hambledon Mining	Kazakhstan	Metallurgical and Testwork Services	Gold
Akbakai Plant Audit	Wardell Armstrong International	Kazakhstan	Site Inspection	Gold
Komarovskoye Gold Project	Wardell Armstrong International	Kazakhstan	Bankable Feasibility Study	Gold
Review of Operations in a Copper Concentrator	Afcan Mining Corporation	Kazakhstan	Engineering - Services	Copper
Vostok Copper	SRK Consulting (UK)	Kazakhstan	Scoping Study	Copper
Eng. Assistance for Biox Upgrade	Celtic Resources Holding PLC	Kazakhstan	Engineering - Services	Gold
Mizek Gold Project	Worley Parsons	Kazakhstan	Feasibility Study	Gold
Nickel Leaching Project	Bekem Metals Inc.	Kazakhstan	Cost Estimate	Nickel
Mill Sizing Check	Wardell Armstrong International	Kazakhstan	Engineering - Services	
Bozymchak Project	Worley Parsons	Kazakhstan	Pre-Feasibility Study	Gold
Suzdal Upgrade Project	Celtic Resources Holding PLC	Kazakhstan	Pre-Feasibility Study	Gold
Nickel Heap Leach Design/ Scoping Study	Oriel Resources PLC	Kazakhstan	Scoping Study	Nickel
Due Diligence of Mn & Fe Deposits	SRK Consulting (UK)	Kazakhstan	Due Diligence	Iron; Manganese

Review of Kazakhmys Mo / Cu Project	Crew Gold (Canada) Ltd	Kazakhstan	Engineering - Services	Copper; Molybdenum
Sekisovskoye Mine	St Barbara	Kazakhstan	Construction Management Services	Gold; Silver
Engineering for 4Mtpa Au Plant (AKSU)	Momentum Resources International Pty Ltd	Kazakhstan	Study Review	Gold
FS for Biox Plant Upgrade	Celtic Resources Holding PLC	Kazakhstan	Engineering Procurement and Construction Management	Gold
Assistance with Blower Implementation	FIC Alel	Kazakhstan	Engineering Procurement and Construction Management	Gold
Investigate Blower Failures, Suzdal	Celtic Resources Holding PLC	Kazakhstan	Engineering - Services	Gold
Technical Assistance in Almaty	Bateman Metals Ltd	Kazakhstan	Engineering - Services	Nickel
Due Diligence 'Parliament' Project	Frontier Mining Ltd	Kazakhstan	Metallurgical and Testwork Services	Gold
Varvarinskoye Project	European Minerals Corporation	Kazakhstan	Client Representative Services	Gold; Copper
Naimanjal Heap Leach Gold Project	Frontier Mining Ltd	Kazakhstan	Project Management Services	Gold
Shevchenko Project	Oriel Resources PLC	Kazakhstan	Pre-Feasibility Study	Nickel
Metallurgical Engineering Assistance	Celtic Resources Holding PLC	Kazakhstan	Metallurgical and Testwork Services	Gold
Suzdal General Engineer	Celtic Resources Holding PLC	Kazakhstan	Engineering - Services	Gold
Novodnieprovka Gold Ore Treatment Plant	Frontier Mining Ltd	Kazakhstan	Due Diligence	Gold
Gypsum and Mineral Sands Projects at Shokash	European Pacific Resources	Kazakhstan	Engineering - Services	Gypsum
Shaimerden Zinc Project	Ennex International Plc	Kazakhstan	Project Management Services	Zinc
Shaimerden Zinc Project	Ennex International Plc	Kazakhstan	Client Representative Services	Zinc
Shaimerden Zinc Project	Ennex International Plc	Kazakhstan	Engineering - Services	Zinc
Design Review of Roads and Bridges to Malayevski Mine	Glencore International AG	Kazakhstan	Engineering - Services	
Leninogorsk Gold Project	Goldbelt Resources	Kazakhstan	Engineering - Services	Gold
Bakyrchik Gold Project	MICON International Ltd	Kazakhstan	Engineering - Services	Gold
Bakyrchik Gold Project	Bakyrchik Gold Plc	Kazakhstan	Metallurgical and Testwork Services	Gold
Metallurgical Due Diligence	Quad Consulting Ltd	Kazakhstan	Metallurgical and Testwork Services	
Bakyrchik Gold Project	Bakyrchik Gold Plc	Kazakhstan	Project Management Services	Gold
Technical Assistance/Project Management to Recommission Stage I Redox Process Plant	Bakyrchik Gold Plc	Kazakhstan	Project Management Services	Gold
Study for Oxide Project at Auezov	Bakyrchik Gold Plc	Kazakhstan	Pre-Feasibility Study	Gold
Technical Review of Feasibility Study for Stage II Redox Project	Bakyrchik Gold Plc	Kazakhstan	Due Diligence	Gold
Review of Contractual Documentation	Bakyrchik Gold Plc	Kazakhstan	Project Management Services	Gold
Chaarat SharePoint Project	Chaarat Gold Holdings Ltd	Kyrgyzstan	Engineering - Services	Gold
Tulkubash Heap Leach Project	Chaarat Gold Holdings Ltd	Kyrgyzstan	Feasibility Study	Gold
Chaarat Gold Project	Chaarat Gold Holdings Ltd	Kyrgyzstan	Definitive Feasibility Study	Gold
Makmal Gold Project	Amarzakan Gold Limited	Kyrgyzstan	Engineering - Services	Gold
Makmal Stockpile Project	Armenian Gold Mining Limited	Kyrgyzstan	Site Inspection	Gold
New Comminution - Gold	Jerooyaltyn	Kyrgyzstan	Feasibility Study	Gold
Jerooyaltyn Gold Project	Jerooyaltyn	Kyrgyzstan	Bankable Feasibility Study	Gold

Bozymchak Project	Kazakhmys PLC	Kyrgyzstan	Bankable Feasibility Study	Copper; Gold
Jerooy Gold Project	Jerooyaltyn	Kyrgyzstan	Construction Management Services	Gold
EPCM – 1Mtpa Gold Project	Jerooyaltyn	Kyrgyzstan	Engineering Procurement and Construction Management	Gold
Inspection of Crushing Supplier Facility in China	Aurum Mining PLC	Kyrgyzstan	Site Inspection	
BFS – 1mtpa Gold Project	Jerooyaltyn	Kyrgyzstan	Bankable Feasibility Study	Gold
Jerooy Plant Audit	Jerooyaltyn	Kyrgyzstan	Engineering - Services	Gold
Jerooy Plant Evaluation	Wardell Armstrong International	Kyrgyzstan	Due Diligence	Gold
Andash Project	Aurum Mining PLC	Kyrgyzstan	Bankable Feasibility Study	Gold
Andash Study Review	Aurum Mining PLC	Kyrgyzstan	Study Review	Gold
Kuran Jailoo	SHG Golden & Silver	Kyrgyzstan	Metallurgical and Testwork Services	Gold
Jerooy Gold Mine Project (Metallurgy and Engineering)	Norox Mining Company Ltd	Kyrgyzstan	Pre-Feasibility Study	Gold
Pre-Feasibility Study and Cost Estimate	Oxus Gold	Kyrgyzstan	Pre-Feasibility Study	Gold
Zhelezny Kryazh Phase 1 and 2	Dragon Group	Russian Federation	Engineering - Services	Gold
Pisarevo Project	Hardrock Minerals	Russian Federation	Scoping Study	Silica
Mikheevsky Copper Project	IMC Group Consulting Ltd	Russian Federation	Bankable Feasibility Study	Copper
Kursk Underground Mine Review	IMC Group Consulting Ltd	Russian Federation	Metallurgical and Testwork Services	Iron
Lebedinsky Mining and Dressing Plant	IMC Group Consulting Ltd	Russian Federation	Metallurgical and Testwork Services	Iron
Heap Leach Review and Due Diligence	Wardell Armstrong International	Russian Federation	Metallurgical and Testwork Services	Gold
Inaglinskaya Coal Mine EPCM - Supervision	LG International Corporation	Russian Federation	Client Representative Services	Coal
Priaguna Optimisation Study	SRK Consulting (Moscow)	Russian Federation	Operation Services	Gold
DD for Angara Mining	Angara Mining PLC	Russian Federation	Due Diligence	Gold
Review of New Nickel Technology	Wardell Armstrong International	Russian Federation	Study Review	Gold; Nickel
Karalveem Gold Project,	AMC Consultants (UK) Ltd	Russian Federation	Due Diligence	Gold
Goltsovoye Project	Wardell Armstrong International	Russian Federation	Bankable Feasibility Study	Silver
Bakcharskoye Fe Project	SRK Consulting (UK)	Russian Federation	Due Diligence	Iron
Goltsovoye Silver Project	Wardell Armstrong International	Russian Federation	Pre-Feasibility Study	Silver
Scoping Study for Silver Project	TYRY	Russian Federation	Scoping Study	Copper; Silver
Tikhvid Chrome Smelter	SRK Consulting (UK)	Russian Federation	Due Diligence	Chromium
Due Diligence & CPR	AMC Consultants (UK) Ltd	Russian Federation	Due Diligence	Gold; Silver
Goltsovoye Testwork Monitoring	Ovoca Resources	Russian Federation	Metallurgical and Testwork Services	Silver
Goltsovoye Silver Project	Ovoca Resources	Russian Federation	Metallurgical and Testwork Services	Silver
Due Diligence of Gold Project	AMC Consultants (UK) Ltd	Russian Federation	Due Diligence	Gold
Ozernoe Project	SRK Consulting (Moscow)	Russian Federation	Study Review	Lead; Zinc
Nickel Project Metallurgical Testwork	Yudbo Platinum and Gold Development Private Limited Company (Croesus)	Russian Federation	Metallurgical and Testwork Services	Nickel
Due Diligence Coal Mine	Cambrian Mining PLC	Russian Federation	Due Diligence	Coal

Preliminary Inspection, Coal Mine	Miranda Mining Devel Corp	Russian Federation	Site Inspection	Coal
Nezhdaninskoye Plant Upgrades	Celtic Resources Holding PLC	Russian Federation	Project Management Services	Gold
Chelyabinsk Zinc Project	St Barbara	Russian Federation	Project Management Services	Zinc
Feasibility Study of Relocation of Ore Processing Facilities	Celtic Resources Holding PLC	Russian Federation	Feasibility Study	
Review of Russian language documents for Fevral'skoye Gold Mine Project	GeoAfrica Gold Corporation	Russian Federation	Due Diligence	Gold
EPCM of Mill Project Expansion to 600,000 tpa at Nezhdaninskoye	Celtic Resources Holding PLC	Russian Federation	Engineering Procurement and Construction Management	Gold
Metallurgical, Engineering & Costing Report on Process Plant at Nezhdaninskoye	Celtic Resources Holding PLC	Russian Federation	Engineering - Services	Gold
Engineering Study of new AG Mill option at Nezhdaninskoye	Celtic Resources Holding PLC	Russian Federation	Engineering - Services	Gold
Manager to act as Director-General and Site Manager during absence of incumbent	Celtic Resources Holding PLC	Russian Federation	Project Management Services	Gold
EPCM for refurbished 100,000 tpa Gravity Plant at Nezhdaninskoye	Celtic Resources Holding PLC	Russian Federation	Engineering Procurement and Construction Management	Gold
Cost Estimate/Schedule for refurbished 100,000 tpa Gravity Plant at Nezhdaninskoye	Celtic Resources Holding PLC	Russian Federation	Project Management Services	Gold
Cost Estimate for Gold Ore Processing Plant	Celtic Resources Holding PLC	Russian Federation	Cost Estimate	Gold
Audit of Gold Plants	Western Pinnacle	Russian Federation	Due Diligence	Gold
Preliminary Engineering Study for Sakha Alluvial Gold Dredging Operation	Mitsubishi Corporation - Engineers & Constructors	Russian Federation	Engineering - Services	Gold
Monitor Feasibility Study by TsNIGRI	SRK Consulting (Moscow)	Russian Federation	Client Representative Services	
Technical Assistance on Svetlui Gold Project	Eurasia Mining PLC	Russian Federation	Engineering - Services	Gold
Technical Assistance on Menkeche Gold Project	Celtic Resources Holding PLC	Russian Federation	Engineering - Services	Gold
Development of Nezhdaninskoye Gold Project	Celtic Resources Holding PLC	Russian Federation	Engineering - Services	Gold
Metallurgical Due Diligence	Celtic Resources Holding PLC	Russian Federation	Metallurgical and Testwork Services	Gold
Cost Engineering and Accounting for Taror Expansion	Zeravshan Gold Company	Tajikistan	Project Management Services	Gold
Procurement Assistance on Taror Plant Expansion	Zeravshan Gold Company	Tajikistan	Project Management Services	Gold
Engineering Assistance on Taror Plant Expansion	Zeravshan Gold Company	Tajikistan	Engineering - Services	Gold
Final Engineering Work to Facilitate Handover to Main Contractor for Expansion Project	Zeravshan Gold Company	Tajikistan	Engineering - Services	Gold
Feasibility Study and +/-10% Estimate for Taror Plant Expansion	Zeravshan Gold Company	Tajikistan	Feasibility Study	Gold
Feasibility Study for Expansion of Taror Gold Plant	Zeravshan Gold Company	Tajikistan	Feasibility Study	Gold

Plant Audit of Taror Gold Project	Zeravshan Gold Company	Tajikistan	Due Diligence	Gold
Preliminary Design of CIL Tank Foundations for Taror Gold Project	Zeravshan Gold Company	Tajikistan	Engineering - Services	Gold
Review of Proposed Design/ Contract Documents for Taror Gold Project	Zeravshan Gold Company	Tajikistan	Project Management Services	Gold
Post BFS Work - Amantaytau Biox Plant	Oxus Gold	Uzbekistan	Engineering - Services	Gold
Amantaytau Biox Plant	Oxus Gold	Uzbekistan	Bankable Feasibility Study	Gold
Amantaytau Biox Plant	Oxus Gold	Uzbekistan	Pre-Feasibility Study	Gold
Adjudication of LSTK proposals for Amantaytau Heap Leach Project	Oxus Gold	Uzbekistan	Project Management Services	Gold
Metallurgy for Feasibility Study for Amantaytau Gold Project	Oxus Gold	Uzbekistan	Metallurgical and Testwork Services	Gold
Technical Assistance with a Lubrication Survey at Muruntau Gold Mine	Shell UK	Uzbekistan	Due Diligence	Gold



AFRICA



Title	Client Company	Country	Project Type	Resource
Tiririne-Hanane Gold Project	Zakhem International S.A	Algeria	Metallurgical and Testwork Services	Gold
Procurement of 26 ft Thickener	GMA Resources PLC	Algeria	Engineering - Services	Gold
Review/comment on Report Mill Installation	Entreprise d'Exploitation des Mines d'Or (ENOR)	Algeria	Engineering - Detailed	Gold
Bankable Feasibility Study, Gold	CSA Consulting International	Algeria	Bankable Feasibility Study	Gold
Technical Assistance	European Pacific Resources	Algeria	Due Diligence	Gold
Report on Metallurgical Testing of Ores from the Hanane and Tiririne Deposits in Algeria	CSA	Algeria	Metallurgical and Testwork Services	Gold
Mine and Plant Audit for Cotoca Diamond Mine	Arslanian Frères	Angola	Valuation	Diamond
African copper Mine Site Visit		Botswana	Site Inspection	Copper
Bombore Metallurgical Test Work	Orezone Inc SARL	Burkina Faso	Metallurgical and Testwork Services	Gold
Inata Mill Installation	Societe Des Mines De Belahouro	Burkina Faso	Engineering - Services	Gold
Tambao Cost Estimates - Infrastructure	Worley Parsons	Burkina Faso	Cost Estimate	Manganese
Review of Process Data gen. by Minproc	Wardell Armstrong International	Burkina Faso	Metallurgical and Testwork Services	Gold
CM of Inata Gold Project	Societe Des Mines De Belahouro	Burkina Faso	Construction Management Services	Gold
E & P of Inata Gold Project	Societe Des Mines De Belahouro	Burkina Faso	Engineering Procurement and Construction Management	Gold
Site Visit to assist Geotech Engineers	Goldbelt Resources	Burkina Faso	Site Inspection	Gold
Gomde Dam Project	Goldbelt Resources	Burkina Faso	Client Representative Services	Gold
Inata BFS -Detailed Implement. Plan	Goldbelt Resources	Burkina Faso	Engineering - Basic	Gold
Belahouro (Inata) Project	Goldbelt Resources	Burkina Faso	Bankable Feasibility Study	Gold
Youga - Construction Management	Etruscan Resources Inc.	Burkina Faso	Construction Management Services	Gold
Belahouro Gold Project	Goldbelt Resources	Burkina Faso	Pre-Feasibility Study	Gold
EP for Youga Project	Etruscan Resources Inc.	Burkina Faso	Engineering Procurement and Construction Management	Gold
Project Man. Services Youga Gold Project	Etruscan Resources Inc.	Burkina Faso	Project Management Services	Gold
Belahouro Gold Mine Project	Goldbelt Resources	Burkina Faso	Feasibility Study	Gold
Kalsaka Gold Mine	Cluff Gold Plc	Burkina Faso	Study Review	Gold
Review LSTK Proposal from MDM	High River Gold Mines Ltd (HRG)	Burkina Faso	Project Management Services	Gold
Nkamouna Co-Ni-Mn Project	Geovic Cameroon PLC	Cameroon	Feasibility Study	Cobalt; Nickel; Manganese
Bambari Project	Axmin Incorporated	Central African Republic	Metallurgical and Testwork Services	Gold
Bambari Project	Axmin Incorporated	Central African Republic	Pre-Feasibility Study	Gold
Bambari Project	Axmin Incorporated	Central African Republic	Scoping Study	Gold

Kolwesi Tailings Project	Frontera Capital Limited	Democratic Republic of the Congo	Due Diligence	Cobalt; Copper
Kilo Goldmines Adumbi Project	Kilo Goldmines Ltd	Democratic Republic of the Congo	Preliminary Economic Assessment	Gold
Kilo Gold - Construction and Procurement Support	Kilo Goldmines Ltd	Democratic Republic of the Congo	Construction Management Services	Gold
Kolwesi Tailings Project	American Mineral Fields	Democratic Republic of the Congo	Engineering - Services	Copper; Cobalt
Sukari Gold - Crusher Building	Sukari Gold Mines	Egypt	Engineering - Detailed	Copper; Gold
Sukari Gold - Stage 5 New Primary Crusher	Sukari Gold Mines	Egypt	Engineering Procurement and Construction Management	Gold
Sukari Gold Mine Stage 4 Expansion	Sukari Gold Mines	Egypt	Engineering Procurement and Construction Management	Gold
Asmara North	Sunridge Gold Corp	Eritrea	Feasibility Study	Copper; Gold; Silver; Zinc
Asmara North	Sunridge Gold Corp	Eritrea	Pre-Feasibility Study	Copper; Gold; Silver; Zinc
Bisha Mine - Assistance to Finalise Power Contract	Bisha Mining	Eritrea	Engineering - Services	Gold
Bisha Mine - Contract Preparation	Bisha Mining	Eritrea	Engineering - Services	Gold
Bisha Mine - Power Generation Fuel Storage Facility	Bisha Mining	Eritrea	Engineering - Detailed	Gold
Bisha Mine - Power Trade-Off Study	Bisha Mining	Eritrea	Desktop Study	Gold
Meli Gold-in-Gossan for Ezana Mining Development	ACA Howe International Ltd	Ethiopia	Metallurgical and Testwork Services	Gold
Inspect Gravity Plant to Find Electrical Faults	Yudbo Platinum and Gold Development Private Limited Company (Croesus)	Ethiopia	Site Inspection	Gold
Platinum Plant Performance	Ethiopian Ministry of Mines & Energy	Ethiopia	Engineering - Services	Platinum
Design of Tailings Pipeline	Golder Associates (UK) Ltd	Ethiopia	Engineering - Detailed	
CM Kubi Gold Project	PMI Gold Corporation	Ghana	Engineering - Services	Gold
Kubi Gold Project	PMI Gold Corporation	Ghana	Engineering - Services	Gold
Pre-Feasibility Study	St Jude Resources	Ghana	Pre-Feasibility Study	Gold
Feasibility Study	St Jude Resources	Ghana	Metallurgical and Testwork Services	Gold
Chirano Client Rep	Red Back Mining NL	Ghana	Project Management Services	Gold
Planning and Management for Wassa CIL Project	Golden Star Resources Ltd	Ghana	Project Management Services	Gold
Wassa Heap Leach Gold Project	SRK Consulting (UK)	Ghana	Due Diligence	Gold
EPCM Study at Bolgatanga	Union Mining	Ghana	Engineering Procurement and Construction Management	Gold
Cost Estimate of New Crushing Circuit	Prestea Sankofa Gold Ltd	Ghana	Engineering - Preliminary	Gold
Design of New Gravity Circuit	Prestea Sankofa Gold Ltd	Ghana	Engineering - Detailed	Gold
Technical Assistance on Bole Gold Project	Takoradi Limited	Ghana	Metallurgical and Testwork Services	Gold
Akiatwas Alluvial Gold Mining Project	Euraust Mineral Developments Pty Ltd	Ghana	Study Review	Gold
Provision of Plant Metallurgist/ Manager	Prestea Sankofa Gold Ltd	Ghana	Operation Services	Gold
Engineering for New Gravity and Leach Circuits	Prestea Sankofa Gold Ltd	Ghana	Scoping Study	Gold
Koshea Alluvial Gold Project	Euraust Mineral Developments Pty Ltd	Ghana	Study Review	Gold
Review of Tender Documents for LSTK Gold Mine	Amansie Goldfields Ltd	Ghana	Engineering - Services	Gold
Project Engineering on Site to Assist with Remedial Work	Billiton Bogosu Gold Ltd	Ghana	Engineering - Services	Gold
On Site Civil / Structural Engineering / Drafting Services	Billiton Bogosu Gold Ltd	Ghana	Engineering - Services	Gold

Design of Steel Frame Lifting Crane	Prestea Sankofa Gold Ltd	Ghana	Engineering - Detailed	Gold
Industrial Chemistry Technical Assistance	Billiton Bogosu Gold Ltd	Ghana	Engineering - Services	Gold
Provide Plant Operator for Gold Tailings Retreatment Plant	Prestea Sankofa Gold Ltd	Ghana	Operation Services	Gold
Mechanical Engineering / Contractual Advice	Prestea Sankofa Gold Ltd	Ghana	Engineering - Services	Gold
Mechanical and Electrical Engineering Plant Audit	Prestea Sankofa Gold Ltd	Ghana	Site Inspection	Gold
Project Management for Abosso Goldfields	Ranger Minerals NL	Ghana	Project Management Services	Gold
Technical and Project Management Assistance for Abosso Goldfields Project	Ranger Minerals NL	Ghana	Engineering - Services	Gold
PFS SOW for Abosso Goldfields Project	Ranger Minerals NL	Ghana	Engineering - Services	Gold
Bel Air Bauxite Project	Alufer Mining Limited	Guinea	Client Representative Services	Aluminium
Kouroussa Gold Project	ASVI Technical Services Group Ltd	Guinea	Site Inspection	Gold
Kouroussa and Kiniero Project	Cassidy Gold Corporation	Guinea	Due Diligence	Gold
Batafong Bauxite Project	Atlantic Mining Limited	Guinea	Feasibility Study	Aluminium
Firawa Uranium Deposit	Forte Energy NL	Guinea	Metallurgical and Testwork Services	Uranium
LEFA Project	SMD - Lero (Crew)	Guinea	Engineering - Services	Gold
Service Charge	SMD - Lero (Crew)	Guinea	Engineering - Services	Gold
Provision of Engineering Services in Guinea	Sinclair Knight Merz (SKM)	Guinea	Engineering - Services	Gold
LEFA Structural Audit	SMD - Lero (Crew)	Guinea	Engineering - Services	Gold
LEFA - Engineering Project Services	Crew Development UK Ltd	Guinea	Engineering - Services	Gold
LEFA - On Site Construction Supervision	SMD - Lero (Crew)	Guinea	Construction Management Services	Gold
LEFA Plant Audit	SMD - Lero (Crew)	Guinea	Engineering - Services	Gold
Lero Project	Kenor ASA	Guinea	Construction Management Services	Gold
Lero Project	Kenor ASA	Guinea	Construction Management Services	Gold
West African Phosphate Project	West African Phosphate Limited	Guinea-Bissau	Client Representative Services	Phosphate
West African Phosphate Project	West African Phosphate Limited	Guinea-Bissau	Scoping Study	Phosphate
West African Phosphate Project	West African Phosphate Limited	Guinea-Bissau	Client Representative Services	Phosphate
Farim Phosphate Project EPCM	Plains Creek Mining	Guinea-Bissau	Engineering Procurement and Construction Management	Phosphate
Farim Beneficiation Project	Plains Creek Mining	Guinea-Bissau	Feasibility Study	Phosphate
Farim DOS Project	Plains Creek Mining	Guinea-Bissau	Feasibility Study	Phosphate
Farim Project	GBM London	Guinea-Bissau	Procurement and Contract Services	Phosphate
Farim Phosphate Project	Plains Creek Mining	Guinea-Bissau	Definitive Feasibility Study	Phosphate
BFS Angovia Heap Leach	Cluff Gold Plc	Ivory Coast	Pre-Feasibility Study	Gold
Review of Angovia Heap Leach Gold Mine	Cluff Gold Plc	Ivory Coast	Study Review	Gold
Liberia Western Range Iron Ore Project	Gutteridge Haskins & Davey Limited	Liberia	Feasibility Study	Iron
Kokoya Gold Project	Golder Associates Inc.	Liberia	Due Diligence	Gold
Dugbe F Gold Project	Hummingbird Resources Ltd	Liberia	Scoping Study	Gold
Bagama Gold Project	Landmark	Mali	Desktop Study	Gold
Wassoul'or Project	Golder Associates Ireland Ltd	Mali	Due Diligence	Gold
Tilemsi Phosphate Project	Great Quest Limited	Mali	Preliminary Economic Assessment	Phosphate

Tabakoto Gold Project	Credit Suisse	Mali	Due Diligence	Gold
Tabakoto Client Rep	Nevsun Resources Limited	Mali	Client Representative Services	Gold
Prefeasibility Study for Tabakoto Gold Project	Nevsun Resources Ltd	Mali	Pre-Feasibility Study	Gold
Prefeasibility Study for Upgrade at Kalana Gold Mine	Nelson Gold	Mali	Pre-Feasibility Study	Gold
Plant Inspection for Upgrade at Kalana Gold Mine	Nelson Gold	Mali	Site Inspection	Gold
Tasiast Gold Project	Tasiast Mauritanie Ltd SA	Mauritania	Engineering - Services	Gold
Tasiast Gold Project	Tasiast Mauritanie Ltd SA	Mauritania	Engineering - Services	Gold
Tasiast Gold Project	Tasiast Mauritanie Ltd SA	Mauritania	Site Inspection	Gold
Tasiast Gold Project	Tasiast Mauritanie Ltd SA	Mauritania	Site Inspection	Gold
Tasiast Gold Project	Tasiast Mauritanie Ltd SA	Mauritania	Engineering - Services	Gold
Tasiast Gold Project	Tasiast Mauritanie Ltd SA	Mauritania	Feasibility Study	Gold
Tasiast Gold Project	Kinross Gold Corporation	Mauritania	Engineering - Services	Gold
Tasiast Gold Project	Kinross Gold Corporation	Mauritania	Engineering - Services	Gold
Optimum Mill Capacity Study	Kinross Gold Corporation	Mauritania	Engineering - Services	Gold
Tasiast Gold Project	Tasiast Mauritanie Ltd SA	Mauritania	Engineering - Services	Gold
Tasiast Site Support Project	Tasiast Mauritanie Ltd SA	Mauritania	Engineering - Services	Gold
Tasiast Gold Project	Tasiast Mauritanie Ltd SA	Mauritania	Engineering - Services	Gold
Tasiast Gold Satellite Deposits	Tasiast Mauritanie Ltd SA	Mauritania	Feasibility Study	Gold
Guelb el Aug Iron Ore	Worley Parsons	Mauritania	Engineering - Services	Iron
Due Diligence, Tasiast Gold Project	ACA Howe International Ltd	Mauritania	Due Diligence	Gold
Due Diligence of Iron Ore Mining	CMA Limited	Mauritania	Due Diligence	Iron
Dondo Estate Project	Commonwealth Homes Limited	Mozambique	Engineering - Services	
Dajj Uranium Project	Global Atomic Fuels Corporation	Niger	Engineering - Services	Uranium
Samira Hill Engineer	Semafo / Etruscan / Managem / SML	Niger	Engineering - Services	Gold
Ti-N-Keradet Gold Mine Project.	GeoAfrica Gold Corporation	Niger	Client Representative Services	Gold
Cost Estimate & Techn. Commentary -Tin	Golder Associates Inc.	Rwanda	Metallurgical and Testwork Services	Tin
Technical Appraisal of Existing Gold Process Plant	Axmin Incorporated	Senegal	Due Diligence	Gold
Marampa Phase 1B	CMA Limited	Sierra Leone	Procurement and Contract Services	Iron
Mobimbi – Project Manager of Dredge 2	Sierra Rutile Ltd	Sierra Leone	Project Management Services	
Technical Assistance	SRL Consulting Ireland	Sierra Leone	Engineering - Services	
Sierra Rutile Restart Programme	Sierra Rutile Ltd	Sierra Leone	Client Representative Services	
Glenover Rare Earth Project PEA	Glenover Phosphate (Pty) Ltd	South Africa	Preliminary Economic Assessment	Rare Earths
Desk Study of Assets of Uranium Ore	Wardell Armstrong International	South Africa	Engineering - Services	Uranium
Metallurgist to Nevsun	Nevsun Resources Ltd	South Africa	Metallurgical and Testwork Services	Gold
Bacterial Heap Leach Operation in Eastern Transvaal	Snowden (UK)	South Africa	Desktop Study	
Technical Appraisal of a Bacterial Heap Leach Operation	Snowden (UK)	South Africa	Due Diligence	
Technical Appraisal of Gold Plant Tailings Retreatment	Snowden (UK)	South Africa	Due Diligence	Gold
Technical Appraisal of Existing Copper Ore Treatment Plant	Snowden (UK)	South Africa	Due Diligence	Copper

Engineering for plant to treat old gold tailings deposits	Mineral Processors (T) Ltd	Tanzania	Engineering - Detailed	Gold
Geita Gold Mine Project	Ashanti Goldfields Corporation	Tanzania	Engineering - Services	Gold
Project Management and Engineering Services for 30 MW power station	Talyn International Limited	Tanzania	Engineering - Services	
Asset Valuation of Oil Refinery	Addax International	Tanzania	Valuation	Oil and Gas
Geita Gold Mine Project	Ashanti Goldfields Corporation	Tanzania	Construction Management Services	Gold
Review of Condition / Recosting of GII Project	Addax International	Tanzania	Engineering - Services	Oil and Gas
Audit for Geita Gold Mine Project	Ashanti Goldfields Corporation	Tanzania	Engineering - Services	Gold
Commissioning Assistance for Oil Storage Tanks at Nzega	Addax International	Tanzania	Commissioning Services	Oil and Gas
Due Diligence of Geita Gold Project Feasibility Study	Ashanti Goldfields Corporation	Tanzania	Due Diligence	Gold
Preliminary Engineering for Design of Oil Storage Tanks	Addax International	Tanzania	Engineering - Preliminary	Oil and Gas
EPCM of Oil Storage Tanks at Dar-es Salaam	Addax International	Tanzania	Engineering Procurement and Construction	Oil and Gas
EPCM of Oil Storage Tanks at Isaka	Addax International	Tanzania	Engineering Procurement and Construction	Oil and Gas
EPCM of Oil Storage Tanks at Nzega	Addax International	Tanzania	Engineering Procurement and Construction	Oil and Gas
Planning/Engineering Documents for Oil Storage Tanks	Addax International	Tanzania	Engineering Procurement and Construction	Oil and Gas
Merlani Graphite Plant Refurbishment Project	Phoenix Minerals	Tanzania	Engineering - Services	Graphite
Engineering Assistance for Merelani Graphite Plant Refurbishment Project	Phoenix Minerals	Tanzania	Engineering - Services	Graphite
Mechanical and Electrical Engineering Audits of Merlani Graphite Processing Plant	Graptan Ltd	Tanzania	Site Inspection	Graphite
Nayega Manganese Project	Castlelake	Togo	Study Review	Manganese
Inspection and assessment of existing mineral processing plant	BHM	Uganda	Site Inspection	
Plant, Infrastructure and Facilities Inspection	GPI International SA	Zambia	Site Inspection	
Competent Person's Report for privatisation of ZCCM	MRD Inc	Zambia	Competent Persons Review	
RHA Tungsten Project	Premier African Minerals Limited	Zimbabwe	Commissioning Services	Tungsten



THE AMERICAS



Title	Client Company	Country	Project Type	Resource
Serra Azul Iron Ore Project	Gutteridge Haskins & Davey Limited	Brazil	Project Management Services	Iron
Serra do Navio Manganese Project	Wogen Resources Ltd	Brazil	Due Diligence	Manganese
Araguaia Nickel Laterite Project	Wardell Armstrong International	Brazil	Site Inspection	Nickel
Mill Motor Inspection	Nevsun Resources Ltd	Brazil	Site Inspection	
Update Paruna Cost Estimate	Amazon Resources	Brazil	Cost Estimate	
Due Diligence of Diamond Mine Project	GeoAfrica Gold Corporation	Brazil	Due Diligence	Diamond
Cigar Lake Mine and McClean Lake Mill	Golder Associates (UK) Ltd	Canada	Due Diligence	Uranium
Scozinc Project	Scotian Zinc Mines Limited	Canada	Engineering Procurement and Construction Management	Lead; Zinc
Scozinc Project	Scotian Zinc Mines Limited	Canada	Scoping Study	Lead; Zinc
Scozinc Project	Silver Bridge Capital Partners	Canada	Engineering - Services	Lead; Zinc
Kidd Creek Concentrator Project	General Magnesium Corp	Canada	Engineering - Services	Magnesium; Silica
Kidd Creek Concentrator Project	General Magnesium Corp	Canada	Engineering - Services	Magnesium; Silica
Kidd Creek Metallurgical Site Due Diligence	General Magnesium Corp	Canada	Due Diligence	Nickel; Magnesium
Construction Management	Apollo Gold Corporation	Canada	Construction Management Services	Gold
Scoping Study	Canada Talc Ltd	Canada	Scoping Study	
Black Fox Mill Complex Expansion Project	Apollo Gold Corporation	Canada	Engineering Procurement and Construction Management	Gold
Magn-Asb Quebec, Plant Review & OOM Est.	General Magnesium Corp	Canada	Feasibility Study	Manganese
Expansion Study for Stock Mill	Apollo Gold Corporation	Canada	Engineering - Services	Gold
Nugget Pond Testwork	Crew Gold (Canada) Ltd	Canada	Metallurgical and Testwork Services	Gold
Nugget Pond, Phase 2	Crew Gold (Canada) Ltd	Canada	Engineering - Detailed	Gold
Eng. Support – Nugget Pond, Phase 1	Crew Gold (Canada) Ltd	Canada	Engineering - Services	Gold
Aquarius BFS	St Andrews Goldfields	Canada	Bankable Feasibility Study	Gold
Metallurgist	St Andrews Goldfields	Canada	Metallurgical and Testwork Services	Gold
Hislop Ore Project	St Andrew Goldfields	Canada	Engineering - Services	Gold
Cost Estimate for Peripheral Items	Crew Development UK Ltd	Canada	Cost Estimate	Gold
Metallurgical Assistance	St Andrews Goldfields	Canada	Metallurgical and Testwork Services	Gold
HARE Expansion Project	St Andrews Goldfields	Canada	Engineering - Services	Gold
St. Andrew Compilation Report	St Andrews Goldfields	Canada	Engineering - Services	Gold
Stock Mill Intermediate Expansion	St Andrews Goldfields	Canada	Engineering Procurement and Construction Management	Gold
Stock Mill Intermediate Expansion	St Andrews Goldfields	Canada	Engineering Procurement and Construction Management	Gold
St Andrew Goldfields Ltd Mill EPCM	St Andrews Goldfields	Canada	Engineering Procurement and Construction Management	Gold
Due Diligence for Copper / Zinc Mines	SRK Consulting (UK)	Canada	Metallurgical and Testwork Services	Copper; Gold; Lead; Zinc

Cost Estimate for Plant Upgrade	St Andrews Goldfields	Canada	Engineering Procurement and Construction Management	Gold
Tabaco Copper Project	International PBX Ventures	Chile	Cost Estimate	Copper; Diamond; Molybdenum
Due Dilligence for Golder for Credit Suisse	Golder Associates (UK) Ltd	Colombia	Due Diligence	
Review of Columbia Projects	Hooper Mining	Colombia	Site Inspection	Gold
Gold Process Plant Study	Cambridge Minerals Resources PLC	Colombia	Pre-Feasibility Study	Gold
Castellanos Project	Wardell Armstrong International	Cuba	Bankable Feasibility Study	Lead; Zinc
Condor Gold Project	Ecuador Gold and Copper Corp.	Ecuador	Preliminary Economic Assessment	Copper; Gold
Condor Gold Exploration	Golder Associates (UK) Ltd	Ecuador	Client Representative Services	Copper; Gold; Silver; Zinc
Quartzstone Gold Project	Zubix Investments Ltd	Guyana	Desktop Study	Gold
Technical Appraisal of Gypsum Mine	Lagan Holdings Limited	Jamaica	Due Diligence	Gypsum
Dolores Project	Pan American Silver Corp	Mexico	Preliminary Economic Assessment	Gold; Silver
Dolores Mill Study	Pan American Silver Corp	Mexico	Preliminary Economic Assessment	Gold; Silver
Dolores Resource Testwork Programme	Pan American Silver Corp	Mexico	Metallurgical and Testwork Services	Gold; Silver
Dolores Sulphide Project	Minefinders Corporation Ltd	Mexico	Preliminary Economic Assessment	Gold; Silver
Dolores Sulphide Project	Compañía Minera Dolores	Mexico	Engineering Procurement and Construction Management	Gold; Silver
Venro Iron Ore Projects	IMC Group Consulting Ltd	Mexico	Due Diligence	Iron
La Camera Gold Process Plant	La Camera Mining	Mexico	Engineering - Services	Gold
Cerro St. Pedro	Bolivar Gold Corporation	Mexico	Metallurgical and Testwork Services	Gold; Silver
Corani Project	Sedgman Chile SpA	Peru	Engineering - Services	Zinc; Silver; Lead
Macusani Yellowcake Project	Plateau Uranium Inc.	Peru	Preliminary Economic Assessment	Uranium
Macusani Yellowcake Project	Macusani Yellowcake Inc	Peru	Preliminary Economic Assessment	Uranium
Macusani Yellowcake Project	Macusani Yellowcake Inc	Peru	Preliminary Economic Assessment	Uranium
Macusani Yellowcake Project	Macusani Yellowcake Inc	Peru	Metallurgical and Testwork Services	Uranium
Macusani Yellowcake Project	Macusani Yellowcake Inc	Peru	Preliminary Economic Assessment	Uranium
Macusani Yellowcake Uranium	Macusani Yellowcake Inc	Peru	Pre-Feasibility Study	Uranium
Macusani Yellowcake Uranium	Macusani Yellowcake Inc	Peru	Scoping Study	Uranium
Uranium Yellowcake Desktop Study	Macusani Yellowcake Inc	Peru	Desktop Study	Uranium
Metallurgical Testwork	Monterrico Metals PLC	Peru	Metallurgical and Testwork Services	Copper
Bovill Kaolin Project	I-Minerals Inc.	United States of America	Engineering - Services	Kaolin; Potassium Feldspar; Quartz
Bovill Kaolin Project	I-Minerals Inc.	United States of America	Feasibility Study	Kaolin; Potassium Feldspar; Quartz
Shafter Silver Mine	Aurcana Corporation	United States of America	Engineering - Services	Silver
Sherritts Coal Mine	Nage Resources	United States of America	Site Inspection	Coal
Construction Supervisor	St Andrews Goldfields	United States of America	Construction Management Services	Gold
EPCM of Nixon Fork, Gold Project	St Andrews Goldfields	United States of America	Project Management Services	Gold
Metallurgy Inspection	PMI Gold Corporation	United States of America	Metallurgical and Testwork Services	Gold
Choco Plant Expansion	Bolivar Gold Corp.	Venezuela	Scoping Study	Gold
Commissioning, Gold Project	Bolivar Gold Corp.	Venezuela	Engineering - Services	Gold

ASIA AND AUSTRALASIA



Title	Client Company	Country	Project Type	Resource
Pilgangoora Lithium Project	Castlelake	Australia	Due Diligence	Lithium
Kanmantoo Copper Project	Golder Associates (UK) Ltd	Australia	Engineering - Services	Copper
Mt. Bundy Study Update Gold	Valere Mining Ltd	Australia	Bankable Feasibility Study	Gold
Mt Bundy Feasibility Study	Valencia Ventures Inc.	Australia	Project Management Services	Gold
Scoping Study	SRK Consultants (China)	China	Scoping Study	Gold
Metallurgy Review & Basic Eng. Review	Leyshon Resources	China	Engineering - Services	
Review Testwork Progress	CRU Strategies	China	Metallurgical and Testwork Services	
DD 43-101 on China Gold Project	CIC Mining Resources Ltd	China	Site Inspection	Gold
Tao Jin Project, Heap Leach	CIC Mining Resources Ltd	China	Engineering Procurement and Construction Management	Gold
Construction Management	Ningxia Pacific Mining Company Ltd (Jinshan)	China	Construction Management Services	Gold
Monitoring Testwork	Central China Goldfields plc	China	Metallurgical and Testwork Services	
Tanjiansham Project	QDML	China	Project Management Services	Gold
TANJIANSHAN Project	Afcan Mining Corporation	China	Study Review	Gold
Block 8 Exploration Projects - Pahang State	ACA Howe International Ltd	Malaysia	Competent Persons Review	Gold
Review of Mongolian Gold Plant	SRK	Mongolia	Operation Services	Gold
Review of Project – Site Inspection	Khan Resources	Mongolia	Site Inspection	
Technical Appraisal of existing Copper Mine	Kaiser Engineers	Mongolia	Due Diligence	Copper
Detailed Engineering of Masara	Crew Gold (Phil.) Inc.	Philippines	Engineering - Detailed	Gold
EPCM on Masara 750 ktpa Plant	Crew Development UK Ltd	Philippines	Engineering Procurement and Construction Management	Gold
Assist on 500 tpd Plant	Crew Development UK Ltd	Philippines	Engineering - Services	Gold
Teresa Gold Mine Project	Crew Development UK Ltd	Philippines	Project Management Services	Gold
Technical Assistance, Lithium Brines	Evolution Securities (EVOSEC)	Tibet	Engineering - Services	Lithium
Review Flowsheet and Comment	Olympus Pacific Minerals	Vietnam	Study Review	



GBM Limited

Head Office:

Regal House
70 London Road
Twickenham
Middlesex, TW1 3QS
England

Tel: +44 20 8607 9666
Fax: +44 20 8607 9777
Web: www.gbmmec.com
Email: michael.short@gbmmec.com
info@gbmmec.com

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