

WWW.SAXUM.US



A Lycopodium Business



MINING QUALIFICATIONS
PROJECTS & EXPERIENCE

MISSION & VISION

SAXUM is a multi-disciplinary engineering and project management services enterprise specializing in the mineral processing, oil and gas, and infrastructure industries. It includes 4 (four) companies in the USA, Brazil, Australia and Argentina, and 6 (six) offices, in Tucuman and Buenos Aires, Argentina; Irving, TX, USA; Belo Horizonte, MG, Brazil; and Perth, WA, Australia.

MISSION

To provide high-quality engineering and project/construction management services to the industry. We timely meet the demanding technical needs of our customers with accuracy, quality and cost effective solutions during all stages of their projects, from Pre-Feasibility to construction/erection. We promote training and continuous improvement of our professionals to achieve excellence in engineering and procedures.

VISION

To enhance our clients' bottom-line results through efficient engineered solutions and management, and accurate cost estimates and planning for their industrial projects, everytime, everywhere.

Providing multidisciplinary technical assistance with excellence since 1996



OFFICES

ENGINEERING AND EPCM CAPABILITIES ALL AROUND THE WORLD



ARGENTINA
TUCUMAN
BUENOS AIRES

BRAZIL
BELO HORIZONTE

UNITED STATES
DALLAS, TX

AUSTRALIA
PERTH



SAXUM in its continuous improvement process has adapted all the procedures to the highest international requirements with the ISO 9001:2015 quality certification.

ABOUT US

IN ENGINEERING, WE OFFER KEY DISCIPLINES FOR PLANT DESIGN

PROCESS ENGINEERING FOR THE MINERAL PROCESSING INDUSTRIES

MECHANICAL ENGINEERING (PLANT DESIGN, PIPING, PROCESS GAS HANDLING, ENVIRONMENTAL CONTROLS, NUISANCE DUST COLLECTION AND MATERIALS HANDLING, CRUSHING AND GRINDING SYSTEMS)

CIVIL AND STRUCTURAL ENGINEERING (EARTH WORKS AND SLOPES, PONDS, TAILING DAM STABILITY, DRAINAGE, ROADS, FOUNDATIONS, STRUCTURES, CONNECTIONS DETAILING, SEISMIC ANALYSIS, ETC.)

ELECTRICAL, INSTRUMENTATION AND CONTROL ENGINEERING



SERVICES

We differentiate ourselves from other engineering companies by offering strong expertise and knowledge in Engineering, Procurement, and Construction Management (EPCM) services for mineral processing industries (cement, lime, mining), as well as the Oil & Gas and infrastructure industries.

Our services are characterized by high level project management and engineering teams which allow our clients to rely on our way to execute their projects with a focus on delivering either refurbished or new facilities within realistic schedules and budgets as well as optimal technical solutions.

AUDITING

CONSULTING SERVICES

FEASIBILITY STUDIES

EPCM SERVICES

PLANNING AND PROJECT CONTROL

PROCUREMENT

LOGISTIC & EXPEDITING

COMMISSIONING

SITE SUPERVISION

MULTIDISCIPLINARY ENGINEERING

CAPEX/OPEX EVALUATIONS

CONCEPTUAL, BASIC & DETAILED DESIGNS

TRADE OFF STUDIES



CLIENTS

NO RTH AMERICA

VCNA Charlevoix	Martin Marietta
St Marys Cemen t Inc	FLSmidth
Cemento s Fortaleza	BUZZI UNICEM
CEMEX	GCC
Drake Cemen t	Votorantim Metals NA Inc.
Nelson Brothers	TKS Gr oup
LAFARG E - HOL CI M	HEIDELBERG CEMENT
Lattimore Materials Co rp.	G IANT CEMENT
Panamerican Silver	RECON
Fortuna Silver Mines Ltd.	Intrepid Mines Ltd.
Lattimore Materials	Elementia S.A.B. de C.V.
Barrick Gold Corp	Titan Cement
FMC Corp	Orvana Minerals Corp.
Beumer	Cruz Azul
SINTEK	

EUROPE

LAFARG E - HOL CI M	CEMEX
Italcementi	Thyssenkrupp AG
CIMPO R	FL Smidth
Cemento s Molins	Bilfinger
Fives FC B	Cemento s Portland Valde rribas
Hochtief AG	Calucem
Siemens AG	

ASIA

LAFARG E-HOL CI M
Inter cement
SINOMA
Taiwan HS Rail Corp.
Bilfinger

MIDDLE EAST & AFRICA

Bilfinger & Berger
Q N Cemen t Compan y
Inter cement
VOTO RAN TIM
Sotacib, Grupo Molins
Kuwait Cement Co.

DOM INICAN REPUBLIC

Gr u po Estrella

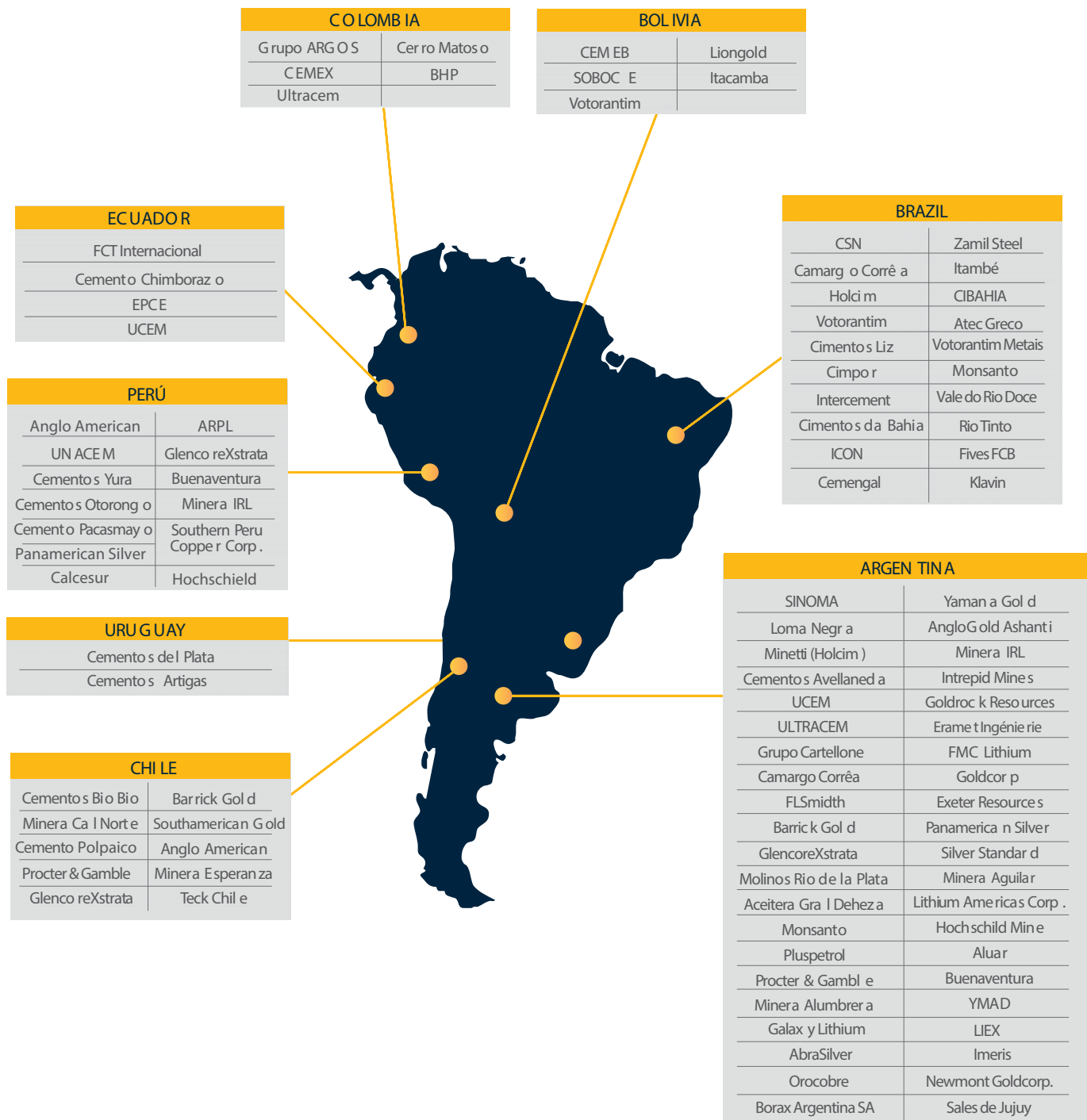
SOUTH AMERICA

► See next page

AUSTRALIA

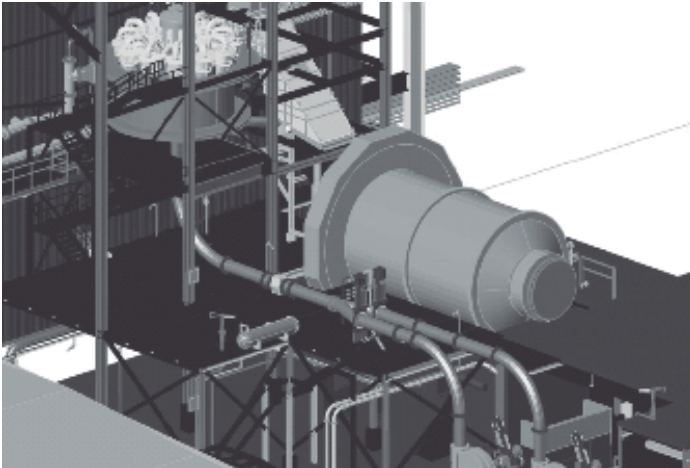
Ernest Henry Mining (GlencoreXstrata)
Adbri Cement
Cockburn Cement Ltd
BGC Cement
Vinidex

CLIENTS



ENGINEERING

WE PROVIDE ENGINEERING SERVICES FROM CONCEPT TO REALITY



SCOPING STUDIES AND TRADE OFF ANALYSIS

CAPEX AND OPEX STUDIES

PREFEASIBILITY AND FEASIBILITY STUDIES BASED ON NI43-101 STANDARDS

COMPLETE ENGINEERING: CONCEPTUAL, BASIC AND DETAILED

PROCESS, MECHANICAL/PIPING/DUCT, CIVIL/STRUCTURAL, ELECTRICAL, I&C ENGINEERING

SCHEDULE DEVELOPMENT

MAIN PROCESS EQUIPMENT BID DOCUMENT PREPARATION

AUXILIARY EQUIPMENT SELECTION ASSISTANCE

CONSTRUCTION BID DOCUMENT PREPARATION

PROCUREMENT

CONSTRUCTION MANAGEMENT

SITE SUPERVISION

ENGINEERING

PROCESS ENGINEERING & PLANT OPTIMIZATION



PROCESS AUDITING, CAPACITY UPGRADES

TROUBLESHOOTING

OPERATIONS ANALYSIS

MASS AND ENERGY BALANCES

PROCESS CALCULATIONS AND FLOW DIAGRAMS

ANALYSIS OF OPTIMUM MATERIAL STORAGE REQUIREMENTS

DEVELOPMENT OF COST-EFFECTIVE ENGINEERING SOLUTIONS

COMMISSIONING

ENGINEERING

MECHANICAL ENGINEERING & PLANT DESIGN



SYSTEMS INTEGRATION WITH MULTIPLE VENDORS

PLANT LAYOUTS

GENERAL ARRANGEMENTS

FULL 3D MODELLING

EQUIPMENT TECHNICAL EVALUATIONS

EQUIPMENT SIZING AND CAPACITY DETERMINATION

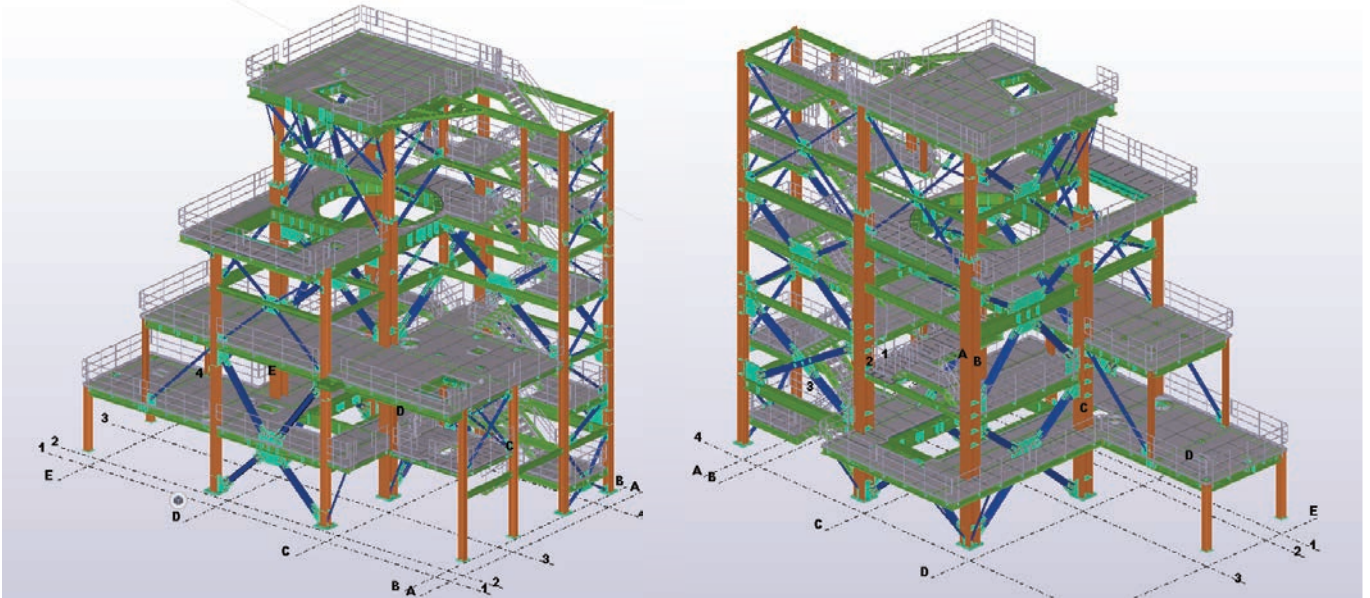
EQUIPMENT AND INSTALLATION SPECIFICATIONS

DUCTWORKS

ENGINEERING DESIGN: PIPING SYSTEMS - MATERIAL HANDLING SYSTEMS
PROCESS EQUIPMENT LAYOUTS

ENGINEERING

CIVIL & STRUCTURAL ENGINEERING



STRUCTURAL ANALYSIS & DESIGNS (INCLUDING HIGH SEISMIC & HURRICANE ZONES) FOR INDUSTRIAL PLANTS

EVALUATION AND IMPLEMENTATION OF GEOTECHNICAL REPORTS

STRUCTURAL DESIGN BASED ON VIBRATION MITIGATION

DYNAMIC FOUNDATION ANALYSIS

DESIGN OF REINFORCED CONCRETE AND STEEL STRUCTURES

CONCRETE SILOS AND BUNKERS

STEEL BINS AND HOPPERS

TUNNELS AND UNDERGROUND STRUCTURES

DESIGN OF ROADS, EARTHWORKS, AND SLOPES.

DESIGN OF PONDS AND TAILING DAMS.

STABILITY ASSESSMENT OF SOIL/ROCK SLOPES.

ENGINEERING

ELECTRICAL ENGINEERING



POWER DISTRIBUTION SYSTEMS

INSTRUMENTATION AND CONTROLS

HMI INTERFACE COORDINATION

PLC PROGRAMMING

MOTORS (MEDIUM VOLTAGE AND LOW VOLTAGE)

MEDIUM VOLTAGE STARTERS AND BREAKERS

TRANSFORMERS

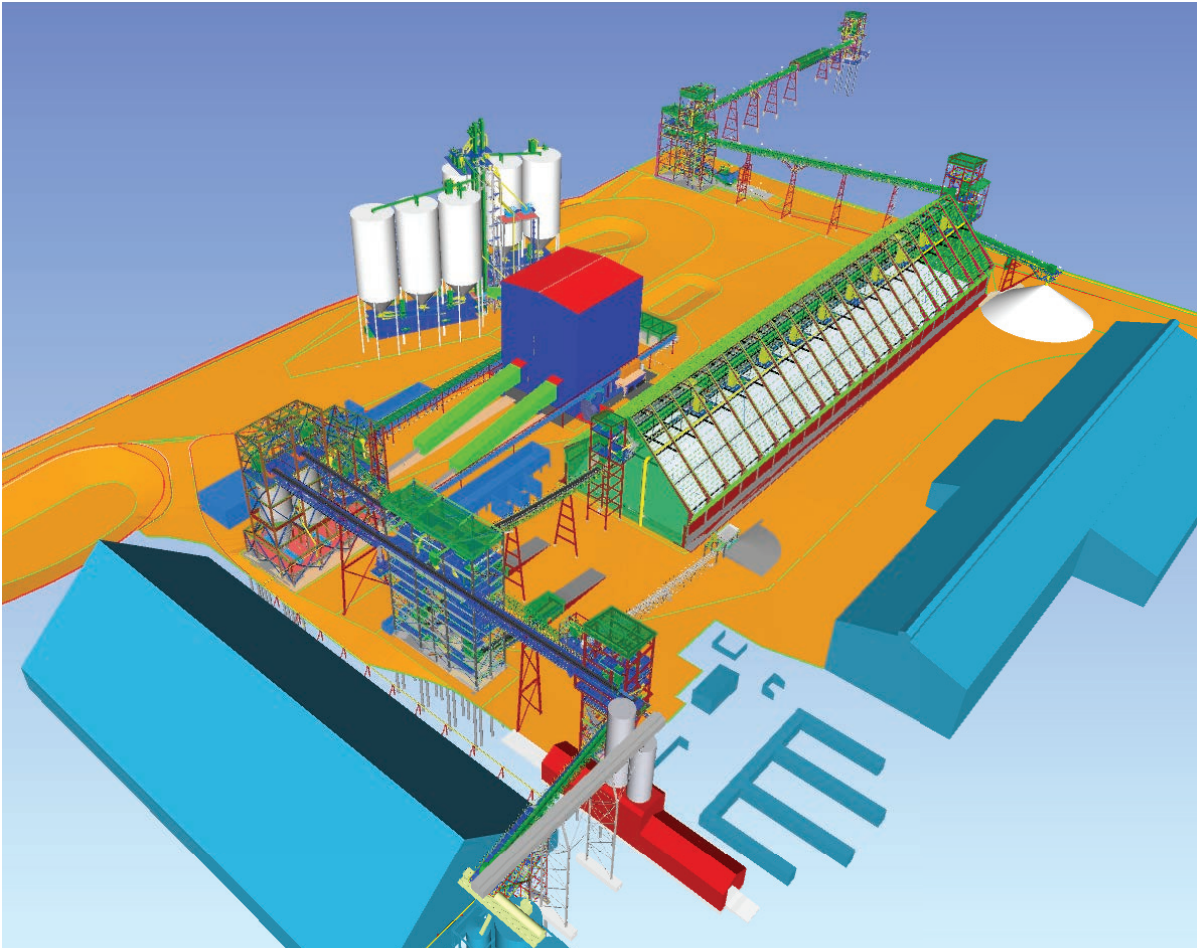
MOTOR CONTROL CENTERS

SHORT CIRCUIT ANALYSIS

POWER STUDIES

ENGINEERING

3D MODELLING FOR FULL PROJECT INTEGRATION



INTEGRATION OF EQUIPMENT ENGINEERING WITH THE CIVIL, MECHANICAL FABRICATION AND ELECTRICAL ENGINEERING

SHOP DRAWING REVIEWS

FABRICATION SHOP INSPECTIONS

COORDINATION OF MATERIALS FABRICATION FOR CONSTRUCTION AND DELIVERIES TO THE JOB SITES

ADVANTAGES OF WORKING WITH US

TOTAL RESOURCES IN HOUSE

KNOW-HOW AND EXPERIENCE IN MINING SOLUTIONS

LEADERSHIP IN DETAILED ENGINEERING SOLUTIONS

DEEP KNOWLEDGE OF STANDARDS AND CONSTRUCTIVE PROCEDURES

ENGINEERING MANAGEMENT ORIENTED TO SATISFY CLIENT TECHNICAL NEEDS

EXTENSIVE EXPERIENCE IN VALUE ENGINEERING FOR INDUSTRIAL PROJECTS

ACCURATE BUDGETS, SCHEDULES AND COST CONTROL

PROVEN PROCEDURES FOR PROCUREMENT, CONSTRUCTION
MANAGEMENT & PROJECT CONTROL.



PROJECT MANAGEMENT

SAXUM provides Professional Project Management services to our clients, based on PMI best practices and clear procedures, highly experienced personnel, and clear understanding of our clients needs and expectations. Our Project Managers act as the primary contact, as well as the overall responsible for coordination of all project activities, both in office and in the field.

SAXUM's Project Management processes have been designed and improved through the years, and based on lessons learned on previous projects to ensure successful implementation and execution of the contracted scope of work.

SAXUM manages projects focused on meeting the client's goals for Cost, Schedule, Quality and Safety. Conscious of risks and showing the ability to respond to client needs with efficient solutions. Client's needs set the Vision that will be the basis for SAXUM's Project Managers to coordinate and lead all parties involved in the projects, to follow the Project Execution Plan through Project Initiation, Planning, Execution, Monitoring and Closure.

SAXUM SUCCESSFUL PROJECT MANAGEMENT IS BASED ON

PRECISE PROJECT UNDERSTANDING AND SCOPE INFORMATION

TRACKING PERFORMANCE AND TAKING NECESSARY ACTIONS

COMPLETE, TIMELY AND ACCURATE INFORMATION

CLEAR AND OPEN COMMUNICATION

TEAM COMMITTED TO THE PROJECT AND CLIENT OBJECTIVES



CONSTRUCTION MANAGEMENT

SAXUM's Construction Management is the core of the company's services. It involves the direction, regulation and supervision of a project from early development to its completion and is responsible for planning work schedules, coordinating the most efficient method and construction strategies and budgeting.

The team is composed of multidisciplinary professionals that allow us to administer the different disciplines, such as: Civil/Structural, Mechanical, Electrical and Instrumentation, Safety, Contracts, Administration, Commissioning, etc.

Our experience, strong focus to project objectives, and the mutually reinforcing joint-work between our professionals of all different departments, allows us to be the tailor-made solution for our customers' EPCM projects.

PROJECT SUCCESS

SAXUM's Construction Management team knows that Project Success is all about organization, planning and follow-up work to achieve the results that comply with client requirements and design criterias. These are all challenging tasks, particularly in the mining industry at high altitudes, where we find sensitive environments that include special local communities and cultures, harsh weather, and strong technical and logistics difficulties.

RESOURCES

To achieve a succesful project under these tough conditions, SAXUM has all the necessary resources to be strongly focused in safety and environmental control, strong planning in advance (FEL – PDRI), excellent Project Control, field supervision and administration management. The key word for SAXUM, as EPCM and project integrator, is Team Work, that include all project's stakeholders: client, EPCM, contractors,



PROJECT CONTROL

SAXUM manages all aspects of the construction process, from the initial design phase to the end. Throughout, we maintain constant communication between all parties, while satisfying the interests and needs of the owner. SAXUM's Project Control Teams offer their clients a wide range of project management services. The services are adapted to each project to meet the needs and wishes of the owner. The following list represents a general description of our project management services:

PROGRAMMING

Project Control has extensive experience in selecting and directing programming consultants. This experience in working with programmers will insure that the owner's facility needs are clearly determined and defined.

SCHEDULING

Our experience in managing the entire process, not just any segment, allows us to prepare reliable project schedules for both the design and construction phases early in the project development stage.

CONSULTANT SELECTION

Project Control assists the owner in selecting the most qualified consultants for various projects by preparing requests for proposals, evaluating the proposals and making recommendations to the owner.

MONITORING

To finish a project on time, within budget and with the desired quality, professional monitoring on a daily basis is necessary.

EARNED VALUE

SAXUM works constantly with the owner and design team during the completion of documents to review savings opportunities while the project design is being developed. SAXUM uses the Earned Value Management System Technique.

REPORTING

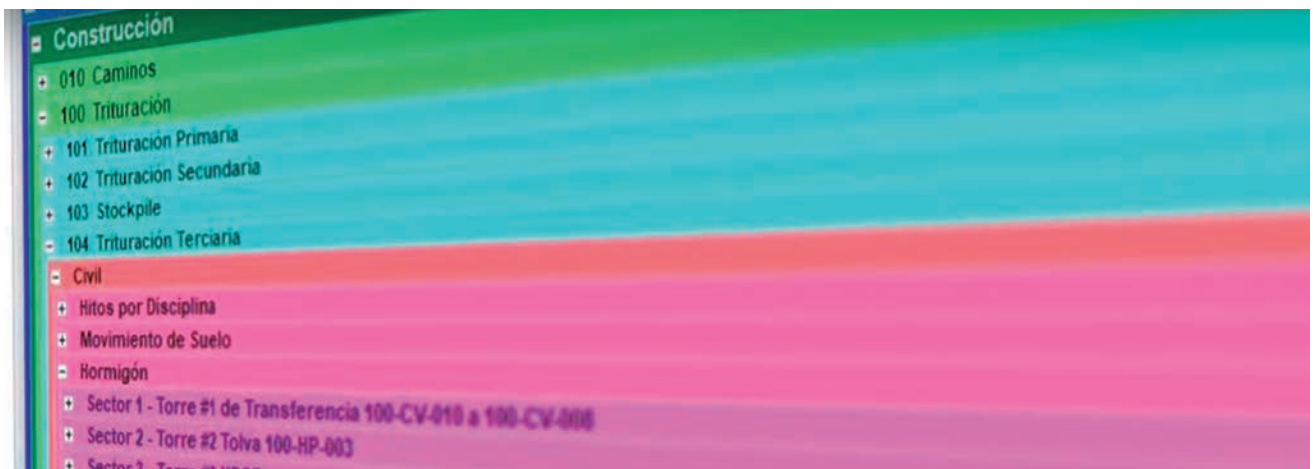
SAXUM prepares written monthly status reports for distribution to the appropriate parties. The reports address the current status of each individual project.

CONTRACTING

Project Control has prepared and negotiated hundreds of contracts for owners on over 100 projects with an aggregate value of over millions dollars. Our contracts have been developed from the owner's perspective for the benefit of the project.

CLOSE OUT

During the final stages of project completion, Project Control closely monitors the activities of the contractor to make certain that punch list items are promptly completed.



PROCUREMENT & LOGISTICS

SAXUM's team of multidisciplinary professionals has extensive experience in procurement services supported by our first class engineering team which covers all technical disciplines. Our procurement services are based on proven procedures and cover a wide range of activities, from the preparation of bidder lists and contractual terms, to expediting, logistics and QA/QC.

SAXUM's procurement team provides our client an integral and detailed service to assure the fulfilment of projects objectives regarding quality, cost and schedule. Our team has proven ability to complete the acquisition of all items and close all contracts of highly complex industrial projects within short time-frames, and in the framework of project budget and quality.

SUPPLY CHAIN ACTIVITIES

- HIGHLY EXPERIENCED PROFESSIONALS
- PURCHASING & ACQUISITIONS
- VENDOR DEVELOPMENT & AUDITS
- CONSULTING SERVICES
- PROCESSES AND PROCEDURES
- INTERNATIONAL IMPORTS & EXPORTS
- CUSTOMS CLEARANCE CONSULTING SERVICES
- LOGISTICS - DOMESTIC & INTERNATIONAL
- CONTRACTING & OUTSOURCING
- CONTRACT MANAGEMENT & ADMINISTRATION
- COSTS AND BUDGETING PROJECTS
- MATERIALS MANAGEMENT
- KPI'S



OUR CLIENTS



شركة قطر الوطنية لصناعة الأسمنت



OUR CLIENTS





A Lycopodium Business

CONTACT US

United States

Dallas, Texas

Office: +1 972 859-0013

Mob: +1 484 515 2840

jared.weston@saxum.us

Australia

Perth, WA

Office: +61 047 444 0235

Mob: +61 474 440 235

melanie.etse@saxum.us

Mob: +61 402 014 016

david.magee@saxum.us

Argentina

Buenos Aires & Tucumán

Offices: +54 11 5128 4800

Mob: +54 911 58831583

constanza.unzaga@saxum.us

Mob: +54 9 381 5860957

facundo.zavaleta@saxum.us

Brazil

Belo Horizonte

Office: +55 11 963114943

Mob: +55 11 963114943

barbara.schilman@saxum.us

