

CIMENTEC Ltd

Consulting Engineers

Cement Process Technologies

We offer a complete range of application solutions to the cement and associated industries world wide.

Included are feasibility studies, process consulting, detail design (civil, mechanical and electrical), project and site management assistance.

Our beginnings are rooted deeply into the cement manufacturing process, from plant operations through plant design. We have proven ability to pursue and to offer new ideas and concepts which we develop into cost effective and environmentally sound solutions to enable our clients to prosper in competitive global markets.

Our engineers and designers have contributed to all of the Projects illustrated in this pamphlet.

Our Mission

To be known as leading providers of specialized solutions for the cement industry.



Recent 6000 TPD plant

Pre- Investment studies

From the simple equipment upgrade for optimizing an existing process to the construction of a new green field plant, the financial success of the project is undoubtedly dependent on a feasibility study, which addresses the technical and financial merits of the project and identifies its potential risks.

At the beginning of most projects we sit down with our clients and together establish a plan of action, which addresses the present and future needs of the plant.

We may spend additional time at the plant assessing the process, material flow and physical conditions at site and gaining better understanding of the future development potential.

These feasibility studies are essential for securing investment capital and bringing equity partners into the project.

Financial institutions and venture capital qualify these feasibility studies as integral part of the business plan.

The total cost of ownership plays a very important role in the final selection process for the plant and process equipment.



Facility planning

Process Technology

The result of the feasibility study establishes future direction of the project and benchmarks its financial commitments. Additionally local market conditions, the quality and consistency of the product and operating cost determine to the largest extent the profitability of the operation.

The available raw materials, the hardness of the rock and the variability of the material mix are evaluated in detail at the onset and presented to the client together with possible solutions for rock extraction, transportation and grinding circuit.

The PYRO process is typically selected to utilize conventional hydrocarbon fuels as well as "waste fuels" to the largest possible extent.

Worn out tires, saw dust, solvents, plastics and others are also being utilized in optimized proportions to ensure complete combustion cycles with low emissions.

Materials such as granulated blast furnace slag, fly ash, pozzolan, etc. are utilized to the largest extent possible to lower the clinker factor and to satisfy market requirements.

Finish grinding and blending solutions for equipment depend on the type and range of finished products required in the local market.

Environmental awareness, low NOx and plume emissions, due diligence in design, selecting a technically sound process and budget oriented cost effective equipment are essential in our approach to ensure the economic viability of the operation and to protect the environment.



Bucket Excavator

Engineering Solutions

We take a flexible approach in offering engineering solutions to our clients. We custom tailor our services in a fashion which most benefit client's needs; either as single source responsibility or as partners with the client's team.

We could act in a consultant role for the sole benefit of the client or we could provide a full range of detailed design and project management solutions as an integral part of the client's project team.

Our engineers and designers have many years of hands on design and operating experience in many countries in North and South America. Over the years they have developed the knowledge to provide plant layout solutions which optimize material flow and keep in step with environmental restrictions imposed by local regulations.

We have the ability to specify and apply the latest equipment technologies in a sufficiently expedient fashion to satisfy the most stringent schedule requirements.

We offer preparation of feasibility studies and cost estimation for CAPEX together with specifications for procuring main and auxiliary equipment.



2200 TPD steel preheater tower



120 TPH Ball mill

These specifications ensure that each potential OEM supplier is clear on the requirements, scope of the supply and the information that must be provided in their equipment proposals.

We follow up with detailed evaluations of supplier's equipment and processes, which further aid the client in selecting the most cost effective solution.

Our civil engineers understand the design complexities of the pre-heater tower, silos, slip-form, steel structures and foundation requirements for the heavy machinery, as well as other design challenges required by occurring natural phenomena such as earthquakes and hurricanes.

Our mechanical engineers and designers have worked with most OEMs in previous projects and have become familiar with many of their equipment features. We use this knowledge to the greatest advantage to optimize the layout of the plant. Our electrical engineers and designers have developed the expertise for applying well proven concepts for designing power distribution, applying drive technologies and smart automation without limitations for achieving the most energy efficient and operator friendly plant operation.

Another service we provide to our clients is performance evaluation of the supplier equipment. This establishes a bench mark against supplier's performance guaranty.



2200 TPD Short Kiln



6000 TPD Preheater concrete tower



Cement storage dome

We extend our services to site supervision and training programs. Included are supervision, planning, scheduling of activities for commissioning and start up of equipment. We tailor our training programs for the specific needs of the client.

Our company carries up to date professional and general liability insurance as well as supplemental coverage as required by law.

We are committed to pursue and to offer new ideas from the best known practices from the industry guaranteed to improve performance and reliability of the plant equipment.

We will deliver cost effective environmentally sound solutions together with quality design services on time and budget.



5000 hp preheater ID fan-synch motor with fluid clutch

15% speed control

For further information please visit our Website or contact us at:

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Ontario**

ASME, IEEE, CSA, Bill 124
OSHA and MSHA

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