

PEC Consulting

Consultants for the Cement Industry



Supply of Raw Materials for Cement Production

PEC Consulting is uniquely qualified to provide

COMPREHENSIVE CONSULTING SERVICES ON RAW MATERIALS FOR THE CEMENT INDUSTRY

In addition to exploration and geology, mining and mine planning, we use our vast knowledge of the process for cement manufacturing to develop the pre-blending strategy that enhances raw material resources to maximize reserves and lower costs.

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OUR CONSULTING SERVICES COVER:

- Exploration, sampling and testing
- Geological mapping
- Mine layouts & planning
- Raw mix design
- Implementation plan



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- Geology is a natural occurrence that must be assessed. Mining and Raw Mix Design can be adapted to suit the product mix and maximize the utilization of the geological reserves.
- Limestone deposits should be planned for a minimum of 30 years. Choosing “sweet spots” in the short term will deprive the plant of required quality limestone in later years.
- PEC Consulting can prepare a RAW MATERIALS UTILIZATION PACKAGE with a long-term plan for “averaging” the quality over a long period; increasing the life of the limestone deposit – the largest asset of a cement plant.

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EXPLORATION & GEOLOGY

If required we design an exploration program to assess the mining reserve quantity, quality and mineability, develop and oversee the drilling campaign and sampling program.

The Scope may include:

- Identification of mineral resource
- Exploration program design and management
- Sampling protocols
- Analytical data analysis
- Geological mapping and modeling
- Resource and reserve assessment
- Geological mapping quality gradations
- Guidelines for hydrogeological studies (if required)



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MINE PLANNING

Our mining engineering staff has many years of hands-on operational experience in surface and underground mining. We provide mine modeling support to many customers in cement, lime, coal and industrial minerals.

Our mine planning services include:

- Conceptual, pre-feasibility and feasibility studies
- Surface, underground or transition from surface to underground planning
- Mine development schedules
- Selection of mining equipment
- Capex estimates
- Operating cost estimates
- Transportation and logistics assessment



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RAW MIX DESIGN AND BLENDING STRATEGY

Our expertise with the preparation of the raw mix guarantees a high-quality product; the overall strategy increases the life of the limestone deposit.

- Evaluation of limestone chemistry
- Identification of additive raw materials
- Evaluation of overburden as an additive
- Preparation of optimum raw mix for quality and economics
- Average the quality across the deposits to extend the mine life
- Provide inputs to the mine plan to extend mine life
- Define the pre-blending strategy



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IMPLEMENTATION

We will work closely with our customer to develop an implementation program of the mining and blending plans and provide training and follow-up audits if required.



PEC
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Our website

www.peccg.com

**is a great source of additional
information.**

Thank you!