



## CONCEPT TO COMMISSIONING

### 1.5 mio tons per annum, Hail Cement Company (HCC), at Hail, Kingdom of Saudi Arabia

Hail Cement Company (HCC), a joint venture of Al-Rajhi Investment Group, Yamama Cement and other prominent investors, is a new entrant in cement industry in Kingdom of Saudi Arabia. Holtec is associated with HCC project from Concept to Commissioning stage.

#### Owner

Hail Cement Company (HCC)



#### Project Consultant

Holtec Consulting Private Limited, India

#### Supply of Main Machinery

Chengdu Design and Research Institute, China with main equipment from European suppliers like Hazemag, Pfiesser, IKN, Ventomatic, Aumund, ABB, Siemens.

#### Scope of Consulting Services

- Basic Engineering, Procurement,
- Review Engineering
- Computer Aided Deposit Evaluation and Quarry Scheduling & Optimization
- Project Implementation and Site Management
- Supervision of Construction, Erection, Trial Runs and Commissioning

#### Special Features

- On-line analyzer on stockpile and RM feed belt for strict quality control
- 6 stage PH/PC with IKN Pendulum cooler
- Fully automatic packing and truck loading
- All equipment with Profi-bus and transmitters
- Stringent pollution control measures comprising Bag House for Kiln/Raw Mill and Cement Mill (< 15 mg/Nm<sup>3</sup>), ESP for Cooler (< 15 mg/Nm<sup>3</sup>) and about 39 Bag Filters in the plant.

- One of the Most modern cement plant in KSA

#### Key Project Data

##### Quantities

Excavation	180,000 m <sup>3</sup>
RCC	150,000 m <sup>3</sup>
Reinforcement Steel	15,000 T
Structural Steel	7,700 T
Power Cables	693 Km
Control Cables	517 Km
Utility Piping	26 Km
Project Drawings	2400 nos.
Suppliers (Turnkey)	01 nos.
Execution Agencies (Turnkey)	01 nos.

##### Main Equipment/Storages

Crusher	1200 tph
Raw Mill	450 tph
Raw Meal Silo	2x 15,000 T
Kiln	5,000 tpd
Clinker Silo	2x50,000 T
Cement Mills	2x150 tph
Cement Silos	4 x 10,000 T
Packing Plant	4x 120 tph
Bulk Loading	4x150 tph

#### Significant Accomplishments

- Plant running at 5500 tpd within 1 month of commissioning
- Specific investment of 121 US \$ /t installed capacity
- Project completed in 27 months
- Specific Power consumption 102 Kwh/t cement
- Specific Heat Consumption 715 Kcal/Kg clinker
- **SATISFIED CUSTOMER**