



## 2x3.3 mio tpa Capacity Expansion by Saudi Cement Company at Hofuf, Kingdom of Saudi Arabia

Saudi Cement Company (SCC) is located in Eastern province of Saudi Arabia, about 120 km from Damam. SCC is the largest producer of cement in Saudi Arabia. SCC started operation in 1961. Since then, SCC has executed 6 Expansions/upgradations of its facilities.

During 5<sup>th</sup> & 6<sup>th</sup> expansion, SCC has installed 2x10,000 tpd clinkerization unit and 3 x 280tph cement grinding capacity. Commercial production from these two new production lines commenced in January 2009. Holtec was involved as Owner's Engineer for this Project.

### Owner

Saudi Cement Company, Kingdom of Saudi Arabia



### Project (5<sup>th</sup> & 6<sup>th</sup> Expansion)- Owner's Engineer

Holtec Consulting Private Limited, India

### Supply of Main Machinery

Sinoma-China with equipment from German Suppliers like ThyssenKrupp, Loesche, IKN, KHD Humboldt and Haver & Boecker.

### Scope of Consulting Services

- Options Evaluation for Expansion of Capacity
- Techno Economic Feasibility Report.
- Review of Design & Engineering.
- Project Coordination.
- Project planning and control for all project work.
- Site Supervision of Construction, Erection and Commissioning.

### Special Features

- 2 x 2200tph limestone crushers.
- 11km long conveyors, of 2200tph capacity.

- 6 Stage PH/PC with IKN pendulum Cooler.
- One of the largest VRM (LM56.4-450tph) of its time for raw grinding.
- From 22 m to 159 m level, pre-heater tower in steel construction.
- Robotic lab.

### Key Project Data

Quantities	
Excavation	435,000 m <sup>3</sup>
RCC	273,000 m <sup>3</sup>
Reinforcement Steel	25,500 t
Steel Fabrication	50,000 t
Total Equipment Erection	45,000 t
Total cable length	2,600 km.
Refractory	13,000 t
Insulation	74,000 m <sup>2</sup>

### Main Equipment/Storages

Crusher	2 x 2200 tph
LS Storage	2 x 75000 t
Clay Storage	45000 t
Raw Mill	4 x 450 tph
Raw Meal Silo	2 x 40,000 t
Kiln	2 x10,000 tpd
Clinker Silo	2 x75,000 t
Cement Mills (RP+Ball mill)	3 x 280 tph
Cement Silos	6 x 20,000 T
Packing Plant	4 x 120 tph with auto truck loaders

### Significant Achievements

- Plant was ordered on Sinoma (initially for 1 line and subsequently the second line was ordered after about a year), China on turn-key basis, and the total project was completed in 30/36 months (5<sup>th</sup> & 6<sup>th</sup> Expansion) from date of order.