

Tula complete cement plant

Lafarge – Mexico



Production of the first clinker within 24 months

To increase its market share in Mexico, Lafarge Group has entrusted Fives FCB with the turnkey supply and installation of a complete greenfield cement plant with a clinker production capacity of 1,500 tpd, in Tula, Mexico.

The construction and commissioning of this plant have been a real success in terms of efficiency, safety and industrial performance. It was delivered four months ahead of schedule.

Scope of work

- Full turnkey (EPC) contract for the supply of the complete production line including:
 - Complete mechanical and electrical/automation equipment
 - Steel structures
 - Detailed studies for civil engineering and steel structure works
 - Erection, supervision and commissioning



Technical features		
Contract date		January 2004
Equipment start up	Raw grinding plant	December 2005
	Cement grinding plant	January 2006
Plant capacity		1,500 tpd
Fuel		Petcoke or coal
Raw material preparation		Longitudinal preblending – 2 x 5,240 t
Raw meal grinding		105 tph vertical roller mill
Blending silo		2,000 t
Burning line	1,500 tpd	5-stage FCB Preheater with low pressure drop cyclones 3 piers FCB rotary Kiln – Ø 4.4 m x L 66 m Clinker cooler
Coal grinding		Ball mill – Ø 2.6 m x L 7.25 m – 4,100 kW
Clinker storage silo		30,000 t
Cement grinding	85 tph	FCB B-mill – Ø 4.2 m x L 12.25 m – 3,100 kW FCB TSV™ Classifier 3200 HF
Packing and dispatch		2 x 2,400 bags/h 1 bulk loading system 1 palletizing system



AN EXEMPLARY SUCCESS

4 months ahead | Delivery of the plant vs contract schedule

According to data supplied by the Lafarge group, the number of industrial accidents was 11 times lower than the Mexican national average in the construction sector.

The Tula plant has received the “Grand Safety Prize” from Instituto Mexicano del Seguro Social to reward these results.