

Umm Bab Line no.4

QNCC – Qatar



5,000 tpd capacity

Renewing its confidence in Fives capabilities to deliver performance in time, Qatar National Cement Company has awarded Fives FCB with a turnkey contract for the supply of its new production line at the Umm Bab cement plant, in Qatar.

This contract was the third one obtained from QNCC for the Umm Bab cement plant.

Scope of work

- Full turnkey (EPC) contract for the supply of the complete production line including:
 - Implementation of the complete new line
 - Supply of Fives proprietary equipment



Technical features		
Contract date		November 2006
Scheduling	Cement grinding plant No.4	Provisional acceptance certificate: April 2008 (17 months)
	Cement grinding plant No.5	Provisional acceptance certificate: June 2008 (19 months)
	Clinker production	April 2009 (29 months)
Plant capacity		5,000 tpd
Fuel		Natural gas
Raw material preparation		900 tph compound crusher for limestone or clay/shale mix Longitudinal preblending storage: Gamma Ray analyser 2 x 30,000t – limestone reclaimer: 400 tph 2 x 10,000t – clay/shale reclaimer: 150 tph
Raw meal grinding		2 x 220 tph FCB B-mills – Ø 4.6 m x L 11.25 m – 3,200 kW 2 FCB TSV™ Classifiers 5000 BF Pillard HeatGen (Hot gas generator system)
Blending silo		15,000 t
Burning line		5-stage single string FCB Preheater / Downcomer water spray FCB Zero-NOx Preca – Ø 5.2 m 3 piers FCB rotary Kiln – Ø 4.8 m x L 76 m Clinker grate cooler – Active area: 120 m ² By-pass system, 25% designed by Fives Electrostatic precipitators Pillard RotaFlam® burner Pillard HeatGen (Hot gas generator system)
Clinker storage silo		40,000 t
Cement grinding	2 x 115 tph OPC cement 3200 Blaine	2x115tph FCB B-mills – Ø 4.6 m x L 13 m – 4,200 kW 2 FCB TSV™ Classifiers 4000 HF
Cement storage silos		2 x 15,000 t
Packing and dispatch		3 bulk loaders 200tph each 2 rotary packers with automatic bag applicator: 2,200 bags/each 3 automatic truck loaders

The Umm Bab line No.4 contract followed those obtained in 1995 for the 2,000 tpd line No.2, and in 2004 for the 4,000 tpd line No.3.

These three lines supplied by Fives enable the Umm Bab plant to produce up to 15,000 tpd of cement, i.e. 5 million tpy, and make it one of the largest and most modern cement plants in the Gulf region.

