

Umm Bab Line No.3 QNCC – Qatar



Qatar National Cement Company awarded Fives FCB with a second contract for the turnkey supply of its new production line at the Umm Bab cement plant, in Qatar.

This project followed the successful commissioning of Umm Bab line No.2 (2,000 tpd capacity) in 1997.

→ 4,000 tpd capacity



Fives FCB precalciner

Contract date		July 2004
Scheduling	Cement grinding plant No.1	First cement in December 2005
	Cement grinding plant No.2	First cement in May 2006
		First clinker in December 2006
Provisional acceptance		April 2007
Plant capacity		4,000 tpd
Fuel		Natural gas
Raw materials		Limestone, shale and clay
Raw materials preparation		Impact raw materials crusher 900 tph for limestone and shale Longitudinal preblending storage: 2 x 30,000 t (limestone) 2 x 10,000 t (clay)
Raw meal grinding		Fives FCB 340 tph ball mill – Ø 5.2 m x L 18.65 m - 5,200 kW Fives FCB TSV™ classifier 6500 BF type
Burning line	4,000 tpd	Fives FCB 5-stage Single string preheater with low pressure drop cyclones Fives FCB Zero-NOx precalciner – Ø 5 m By-Pass system, 25% designed by Fives FCB 3 piers Fives FCB rotary kiln – Ø 4.5 m x L 70 m Clinker cooler
Clinker storage silo		40,000 t
Cement grinding	2 x 115 tph	2 Fives FCB ball mills – Ø 4.6 m x L 13 m - 4,200 kW 2 Fives FCB TSV™ classifiers 4000 HF type
Packing and dispatch		Spouts bulk dispatch - 3 x 170/200 tph

SCOPE OF WORK:

Full turnkey contract for the supply of the complete production line including:

- Mechanical equipment: 12,800 t
- Electrical/automation equipment: 1,200 t
- Steel structures: 6,900 t
- Concrete structures: 52,000 m³

