

Norzagaray cement grinding plant

Republic Cement – The Philippines



FCB Horomill® cement grinding plant has demonstrated high level performances in terms of product quality and electrical consumption

Republic Cement, a CRH-ABOITIZ company (formerly known as Lafarge Republic Inc.), has awarded Fives FCB with a contract for the supply of a new cement grinding plant in Norzagaray, located in Bulacan province, the Philippines.

This plant, basically a repeat order of Teresa Plant also implemented by Fives, operates with the fully automatic, zero-water spray consumption and energy-efficient FCB Horomill® technology that allows for enhancing the plant's production by 850,000 tpy.

Scope of work

- CIF contract for the supply of a complete cement grinding plant including:
 - Complete engineering studies, including civil engineering
 - Supply of FCB and Pillard proprietary equipment
 - Supply and delivery of mechanical and electrical/automation equipment
 - Basic studies for civil engineering and steel structure works
 - Erection, supervision and commissioning



Technical features	
Contract date	February 2014
First cement production	January 2016 (including 7 months contract suspension for LafargeHolcim merger)
Plant inauguration	March 2016
Type of cement	1P (55% clinker, 5% gypsum, 5% limestone, 29% pozzolana, 6% fly ash) at 4600 and 5200 Blaine
Raw material feeding	Clinker through connection to the existing circuit, main additives (pozzolana, limestone, gypsum, fly ash) by truck dump
Mill feed bins	540 t clinker, 530 t limestone, 470 t pozzolana, 150 t gypsum, 200 t fly ash
Cement grinding	106 tph
	<p>FCB Horomill® 3800</p> <p>FCB TSV™ Classifier 4500, associated with FCB Flash dryer and TGT® Filter</p> <p>Pillard HeatGen 4.8 MW diesel oil fired hot gas generator</p> <p>The cement transport system to the existing silos, and packing plant</p> <p>The control and supervision system and the electrical sub-station dedicated to this new grinding plant</p>

108.7
tph | Cement production capacity during industrial tests

4,626
Blaine | Average fineness of the finished product

26.4
kWh/t | Electrical consumption for the whole grinding plant



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