05/2013/Tech

Meintenance

## **UPGRADE OF CEMENT GRINDING LINE**

As a result of structural problems in the mill inlet (feeding screw), during 2012 the maintenance team of Sharrcem had to deal with numerous of stoppages of the Cement Mill Nr. 2.

For that reason the management decided to order new equipment for this part of the mill (which will be arrived at our plant by the middle of the year) in order to ensure the maximum availability of the mill.



Sharrcem

Facts

## INSTALATION OF 3<sup>RD</sup> GENERATION OF SEPARATOR

Aiming to upgrade of cement grinding, Sharrcem decided to invest on the new Separator between Cement Mill No.1 and No2 at the cost of € Mil. 1,8, therefore achieving:

- Better cement quality
- Reduction of the cement temperature
- Possibility of mechanical adjustments
- Possibility of very large flow rates
- Flexibility to produce products of different qualities
- Increase of the grinding capacity

## **REHABILITATION OF CEMENT MILL NR.1**

Cement mill 1 and 2 are "Twins". They were both manufactured in 1979 with the exact same capacity of 150 ton in OPC 42.5. After a 23 years of operation the management of that time decided to stop mill no. 1 and keep in operation only mill no 2. In the same time several of the spare parts required for mill no 2 were being dismounted from mill no 1.

For this reason the rehabilitation of mill no 1 had to embrace series of actions that started in the last Quarter of 2012 and will be completed by May 2013.



## The main actions in the rehabilitation

- Reconstructing the entering nozzle of the Clinker
- Installing new Weight feeder and transporter to the throat of the Cement Mill
- Inspecting of the Feeding screw, Pivot Shaft, CM shell.
- Installing the Main Motor of Gearbox
- Inspecting if needed fixing and replacing the damaged bearings on the main Gearbox
- Water Installation (including all the water pumps and pipes at CM1)
- Installation of high and low oil pressure pumps all around the CM1 line
- PLC programming
- Connecting the De-dusting Pipes form outside of CM1 to the Bag Filter of CM2
- Re constructing the Bucket elevator and connecting that with the Bucket elevator of CM2 through Air slide
- Installing new Air Slide from Separator to the throat of the Cement Mill
- Demolishing and removing completely the old Separator









KNOW-HOW

DELIVERING RESULTS

CORPORATE SOCIAL RESPONSIBILITY