

Field of activity Mining and bulk materials handling

## Project **Crushing, screening and storage facility of phosphate, Khouribga (Morocco)**

Year 2011

Location Khouribga, Morocco

Client **L'OFFICE CHERIFIEN DES PHOSPHATES (OCP)**

### Scope/description:

The project involves the installation of a crushing and screening facility of phosphate. The product under the facility is a sedimentary phosphate with 20% of sterile consisting of limestone and flint blocks from 90 to 1500mm. These sterile are eliminated in the crushing and screening operations. The facility consists of two identical lines that can work independently.

The facility consists of a crushing building, screening building, phosphate storage park and sterile storage park.

#### **Crushing building**

Made of reinforced concrete and steel structure.

Main features:

- 2 hoppers of 300 m<sup>3</sup> each to collect the crude phosphate from quarry by trucks up 200T.
- 2 feeders to transport crude phosphate from the hopper to the crusher feeder.
- 2 vibrating feeders of 2000T/h each
- 2 crushers 1000 T/h, grain size to the input 90-1300mm, grain output to 0-250mm
- 2 vibrating extractors under crusher 1000 T/h each
- Crane of 36T

#### **Screening building**

Made of metal structure.

Main features:

- 6 extractors for feeding screens of 700T/h each
- 6 vibrating screens of 700 T/h each, upper mesh size 30x50mm, lower mesh 15x30mm
- Crane of 6T

#### **Phosphates storage park.**

- 2 Phosphate's stackers of 2000 T/h each. Stacking length 680m and, stacking height 15m

#### **Sterile storage park**

- 2 sterile stackers of 2100 T/h, translation by hydraulic cylinders for advancing mechanism with orientation mechanism arrow 180°

#### **Main conveyors features:**

- 2 conveyors over mobile cart (2x14m) 2000t/h
- 2 shuttle conveyor (2x175m) 2000t/h
- 2 shuttle conveyor (2x95m) 2000 t/h
- 2 conveyors (2x700m)



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