# **Cabinet of Ministers**

Egyptian Environmental Affairs Agency Egyptian Pollution Abatement Project (EPAP II) رئاسة مجلس الوزراء جهاز شئون البيئة مشروع التحكم في التلوث الصناعي-المرحلة الثانية

# **Case Summary**

# Tora Cement Company "Replacement of Electrostatic Precipitators for Kiln no. 8, By-pass and Gravel Bed Filters"

# **Company Information**:

Contact Person: Mr. Amr Yehia El Ghoneimy

Position: Country Investment & Maintenance Manager

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Sector: Private

Project Title: "Replacement of Electrostatic Precipitators for Kiln no.8, By-pass

Gravel Bed Filters"

Type of Project: Air pollution control

#### 1. Basic Information:

#### 1.1 **Main Products:**

Cement	2609832 t/y
Clinker (intermediate)	2604326 t/y

#### 1.2 Raw Materials:

T .	2 (2000 )		
Limestone	3620994		
Clay	847518		
Pyrite	32951		
Slag	5867		
Gypsum	205152		
Utilities	Ton/year		
Water			
Domestic	155000		
Process	1147000		
Other	248000		
Fuel			
Natural gas fuel Nm3/year	33443000		
Heavy fuel ( Mazot )	249671		
Electricity:			
National grid	349541570 kw/y		
Self generated	-		

# 1.3 **Project Location**:

Tourah plant (I) is located near Helwan in Tourah Nile Cornish road, and the project will be implemented in Torah Plant (II) (Line 8) located at the autostrad road.

# 1.4 **Project Objectives:**

• The following table shows the expected dust load reduction:

Parameter (TSP)	Before the project (tons/year)	After the project (tons/year)	Percent Reduction expected
Raw Mills	737.28	184.3	75 %
By Pass Filter	333.5	74.112	78 %
Gravel Bed	884.7	267.5	70 %
Filters			

# .5 **Project Description:**

- Replacement of electrostatic precipitator of two mills (1 & 2) stacks with two more Efficient Bag house filters of suitable size (line 8).
- Replacement of electrostatic precipitator of bypass stack with more efficient Bag house filter of suitable size (line 8)
- Control the kiln seal to prevent false air from interfering with proper operation of the filter
- Replacement of the two gravel bed filters A & B with higher technological equipment (line 8)

# .5 **Project Components:**

# 4 Fabric Bag filters and auxiliary equipment

#### 1. Equipment designed, supplied, shipped, erected and commissioned:

- 1. Raw Mill A Bag Filter
- 2. Raw Mill A Bag Filter Exhaust Fan including drive
- 3. Raw Mill B Bag Filter
- 4. Raw Mill B Bag Filter Exhaust Fan including drive
- 5. Clinker Cooler Bag Filter
- 6. Clinker Cooler Bag Filter Exhaust Fan including drive
- 7. Tube Bench type Heat Exchanger for Clinker Cooler Gases including fans and drives
- 8. Alkali By-Pass Bag Filter
- 9. Alkali By-Pass Bag Filter Exhaust Fan including drive
- 10. Alkali By-Pass Quenching Fan including drive
- 11. Compressed air station.

#### 2. Bulk materials:

Includes mechanical, civil and electrical works

# 1.7 Estimated Project Cost:

Actual cost is US \$ 24 Million which is US \$ 15 Million will finance from EPAP II

# 1.8 **EPAP II Technical Support:**

EPAP II TA assists the company updating:

- Environmental audit.
- Compliance Action Plan

EPAP II PMU assisted the company in preparing:

- Tender document according to WB standard bidding document (ICB Single Stage Bidding)
- Self monitoring plan.
- Bid evaluation report and procurement procedures
- Technical agreement
- Awarding & Contract

# 2. Eligibility Criteria

# 2.1 Environmental:

• The project will allow the company to comply with environmental law limits regarding dust emissions. Reduction in load will reach 78% and the concentration of exhaust gases will decrease to 50 mg/m<sup>3</sup>

#### 2.2 Financial:

- The project costs more than US\$ 8 million
- The payback period of the project is 4 years
- Sub loan agreement has been signed on October 2009

# 3 <u>Current status of project procedures</u>

3.1 Steering committee approval: Approved

3.2 Co-financers approval: (No-Objection)

#### 3.3 Technical Procedures:

Technical Document	submitted	Approved	Date
Environmental	Y	Y	April 2007
Assessment			
Compliance Action	Y		Draft Dec 2007
Plan (CAP)			Revised Mar 2010
Environmental Impact	Y	Y	May 2009
Assessment (EIA)			
Technical Agreement	Y	Y	10-5-2010

# 3.4 Implementation Procedures:

# 3.4.1 Procurement Procedures:

The company follows World Bank (WB) procurement procedures (ICB) according to EPAP II conditions and procedures (ICB International Competitive Bid) (Single Stage Bidding) for Supplying and Installation of Replacement of Electrostatic Precipitators for Kiln no.8, Bypass and Gravel Bed Filters

# 3.4.2 Status of Implementation:

Technical Document	submitted	Date	
		Achieved	Planned
Credit worthiness	Y	Aug 2006	
certificate			
Sub-loan Agreement	Y	29-12-2009	Oct 2009 drafted
Bidding document	Y	April 2008	
Technical and	Y	April 2009	
financial Evaluation		_	
Contract Signed	Y	16-12-2009	Nov 2009
Installation and	N	Dec 2011	Jun 2011
Commissioning			
Monitoring:	N		San 2011
Q1:			Sep 2011
Q2:	N		
Q3:	N		
Q4:	N		