Ministry of Trade & Industry
Tabbin Institute for
Metallurgical Studies
(TIMS)

Servironment Research Center

E2RC

Environmental Report

for Aqua Misr Co.

At Helwan Cement Company

October, 2012

Introduction

According to the contract between Aqua Misr Co. and Energy & Environmental Research Center (E2RC) / Tabbin Institute for Metallurgical studies (TIMS) to execute Exhaust Stack emissions Measurement form the bag filter of Cement Mills at Helwan Cement Company, TIMS team work had conducted these measurement in October, 2012.

- Measurements
- The following parameters were measured form stacks of Cement Mills
 - 1. Concentration of Dust emissions form Stacks.
 - Concentration of Combustion Gases (Temp, O2) from stacks.
- > The Used Equipment
 - Exhaust stacks emissions form stack of Cement Mill No. (7).
 Universal Stack sampler. USA

Sampling Method : Isokinetic measurement

EPA method No. 1,2 velocity & flow rate

EPA method No. 5 dust emission

2 .Combustion air analyzer Lancôm III U.S.A



Table (1) Exhaust Stack Emission

Company Name

: Helwan Cement Company

Measurements date

: 08 / 10/2012

Site Name

:Stack of Cement Mill No (7)

Parametee	Unit	Outles	Maximum permissible timit law 4/1994 for Exclorantent pointection and its amendmeter by law No.9/2009 and its executive regulation issued in 2011& 710/2002
Stack Temperature	°C	56	
Barometer P.	mbar	1009	
Static Pressure	mmH ₂ O	-5	
Dynamic P. (Avg.)	mmH ₂ O	10	
Stack Diameter	cm	90	
Velocity	m/S	15.56	
H ₂ O	%	3.0	
O ₂	%	20.2	10ina
Stack Flow Rate	m ³ /h	35634	
Dust concentration	mg/m³	6.5	50