

Tabbin Institute for Metallurgical Studies

Energy and Environment Research Center

ISO 9001 -2008

E2RC

Report on
Exhaust Stack Emissions Measurement from
Suez Cement Company
Aqua Misr Company

May, 2015

Team Work

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Introduction

According to the contract between *Aqua Misr Co. and Energy and Environment Research Center / Tabbin Institute for Metallurgical Studies (TIMS)* to execute Exhaust Stack emissions Measurement from the bag filter of Cement Mill No.(1) at *Suez Cement Company*, TIMS team work had conducted these measurement in May, 2015.

⇒ *Measurements*

⇒ The following parameters were measured from stacks of bag filter of Cement Mill No.(1)

1. Concentration of dust emissions form stacks .
2. Concentration of combustion gases (Temp. O₂) from stacks.

⇒ *The Use Equipment*

1. Exhaust stacks emission from bag filter of Cement Mill No.(1)
Universal Stack sampler. USA

Sampling method : Isokinetic measurement

EPA method No. 1,2 velocity & flow rate

EPA method No. 5 dust emission

- 2 .Combustion gas analyzer Lancôm- III U.S.A

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Table (1)
Exhaust Stack Emission

Company Name : Suez Cement Company
Measurements date : 28/5/2015
Site Name : Stack of Bag Filter Cement Mill No.(1)

<i>Parameter</i>	<i>Unit</i>	<i>Out let</i>	Maximum permissible limits according to law 4/1994 for Environment protection and its amendments by law No.9/2009 and its executive regulation issued in 1995 and its amendments issued no. 1095/ 2011 & 710/2012
Stack Temperature	°C	76	---
Barometer P	mbar	1009	---
Static Pressure	mmH ₂ O	-22	---
Dynamic P. (Avg.)	mmH ₂ O	9.1	---
Velocity	m/s	12.91	---
H ₂ O	%	1.2	---
O ₂	%	19.8	---
Stack Flow Rate	m ³ /h	16321	---
Dust concentration	mg/m ³	4.2	50

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