

**E2RC**

معهد التبين للدراسات المعدنية

مركز بحوث الطاقة والبيئة

ISO 9001-2008

*Environmental Measurements  
Report for*

*Aqua Misr Company*

*December, 2012*

## *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 form the bag filter of Cement Mills No.9 A at *Tourah Cement Company*, TIMS team work had conducted these measurement in December, 2012.

### ⇒ *Measurements*

⇒ The following parameters were measured From stacks of Cement Mills

1. Concentration of dust emissions from stacks .
2. Concentration of combustion gases (Temp. O<sub>2</sub>) from stacks.

### ⇒ *The Use Equipment*

1. **Exhaust stacks emissions**

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

*Bakr*



**Table (1)**  
**Exhaust Stack Emission**

Company Name : Tourah Cement Company  
Measurements date : 20/ 12 /2012  
Site Name : Stack of Cement Mill No. (9 A)

<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	89	---
Barometer P	mbar	1009	---
Static Pressure	mmH <sub>2</sub> O	-11	---
Dynamic P. (Avg.)	mmH <sub>2</sub> O	13	---
Velocity	m/s	19.5	---
H <sub>2</sub> O	%	0.3	---
O <sub>2</sub>	%	19.9	---
Stack Flow Rate	m <sup>3</sup> /h	52416	---
Dust concentration	mg/m <sup>3</sup>	4.6	50

*Baker*

