Egyptian Environmental Affairs Agency (EEAA)
EPAP II Technical studies Part III - Compliance Action Plan (CAP)
August 2009 Egyptian Pollution Abatement Project (EPAP II)

Compliance Action Plan (to be prepared in Arabic and English)

1. General information about the factory

Factory Name: Industrial Code:				
Address:				
Chairman Name:		Public sector/Priva	ate/	
Contact Person:	Title:			
Phone No:	Fax No:			
No. Of Workers:	No. Of sh	ifts:	Operating Year:	
Period covering the following	ng informa	tion: from //200	to / /200	
Main Products:				
Year established:				
Available licenses:				
Surrounding area:				
- Google map showing factory site and surrounding area				
2. Main production processes				

2.1. Process description

2.2. Process flow diagrams

2.3. Raw materials, Products and Utilities

Raw materials	materials Current Consumption,		umption, t/y
Utilities	Usage	Consumption, m3/y	Source
Water	Domestic		
	Cooling		
	Process		
	Other		
	Туре	Consumption /y	

Fuel	Mazot (fuel oil), t/y Solar (diesel oil),	
	Natural gas, m3/y	
	Source	Consumption
Electricity	National Grid	
	Self generated	
	Products	Actual Average Production, t/y

3. Description of Service Units

Type of service unit	Brief Description
Water treatment	
Steam boilers	
Cooling towers	
Wastewater treatment	

4. Current environmental status

- Plant layout showing emissions and discharge points

4.1 Air emission

Stack emissions for boilers, furnace and electrical generator and other processes -Combustion sources (limits given in table 5 of annex 6) and for non- combustion sources (limits given in table 2 of annex 6)

Parameter	Emission (m³/year)	Concentration (ppm or mg/m³)	Pollution load (tons/year)	Law limit (ppm or mg/m³)
Со				
Co ₂				
No _x				
So ₂				
Excess Air				
Efficiency				
O ₂ %				
Stack				
temperature				

For each table: Type of fuel and Height of stack:

Dust emissions: Point source emissions limits given in Table 1 of the ER

Sauraca		Concentration (ppm or mg/m³)		limits r mg/m³)
Sources	Tsp	PM10	Tsp	PM10

Locati	on	Avera	ge level (db)	Law limi	its (db)
Dust (Tsp, PN	/110) (Ann	ex 8 pre-table	e 1 of ER)		
Locati	on	Concentra	tion (ppm, mg/m³)	Law li	mits
Locati	OH	Tsp	PM10	Tsp	PM10
Gases and va	pors (Tab	ole 1 Annex 8	of ER)		
Locati	on	Pollutant	Concentration (ppm or mg/m³)	Law limits mg/	
4.2 Wests		d of mino)			
	water (end	rgo(m³/voar)	Concentration	Pollution	n Lav

Indicators	*Discharge(m³/year)	Concentration (ppm)	Pollution load (tons/year)	Law limits
pН				
BOD				
COD				
TSS				
Heavy metal				
Others				

4.4 **Hazardous Material**

iii iidaa do do matoria.				
Туре	Quantity (tons/year)	Management		

4.5 **Solid Waste**

7.0 Oona 11	aoto				
Source	Solid classification	*Annual Quantity (ton)	Management		

4.6 Hazardous waste

110 Tidada dada wada												
Source	Hazardous waste classification	*Annual Quantity (ton)	Management									

5. Ex	isting polluti	on Abateme	ent units	
•••••	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	•••••
•••••	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	•••••
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	on-compliand on should present a tables		compliance issues :	as concluded from
Based on these iss caused by Planned a one active WW has I. The follow 1. 2. 3. 4. 5.	Environmental Rest of Sub-Pro	ce issues identified ocation, emissions es. compliance should ed to reach complied to reach complied to addressed and be addressed and be addressed and the edgister	d in section 6 des s in workplace for be explained. Son ance (e.g. in a pa d recycling, then by eccording to need:	ecribe what causes example, can be metimes more than per factory TSS in treatment).
	cts identified in the pub-Project Name	Cost		Duration
1	ub-Froject Name	Cost	Туре	Duration
2				
3				
4				
5				
Please fill project de Sub-Proje	ct Name:		ct with special emp	hasis on the sub-
Sub-Proje Source of				
Fconomic				
	DEHEIRS.			

Environmental Impacts:

10. Environmental management of CAP1- Work team responsible for CAP implementation.

- 2- Distribution of Responsibilities.
- 3- Resources of work team.

11. Action planThe information collected in the previous sections is used to fill the table below for non-compliance issues and related actions

1. Non-compliance issues and related actions

Non Compliance Issues and Actions	Estimated Investment, Thousand LE	Year 1		Year 2		Year 3		Year 4			Year 5			Environmental Outcome	Economic Benefits	
Issue # 1 BOD in the effluent																
Action 1 Installation of Fiber Recovery Unit	200														BOD concentrations reduced from 200 mg/l to 30 mg/l	Recovery of fiber increasing throughput by 5%
Action 2 Expanding Aeration Tank	150														BOD	
Issue # 2 Particulate matter from Stacks																
Installation of Bag Filter																
Investment to be budgeted	350															
Funding to be sought from other sources	200															