

Egyptian Environmental Affairs Agency (EEAA)

Compliance Action Plan (CAP)

Report Template

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/Private/	
Contact Person:	Title:		
Phone No:	Fax No:		
No. Of Workers:	No. Of shifts:	Operating Year:	
Period covering the following information: 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

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2.2. Process flow diagrams

2.3. Raw materials, Products and Utilities

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

Fuel	Mazot (fuel oil), t/y	
	Solar (diesel oil), t/y	
	Natural gas, m ³ /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 (m ³ /year)	Concentration (ppm or mg/m ³)	Pollution load (tons/year)	Law limit (ppm or mg/m ³)
Co				
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

Sources	Concentration (ppm or mg/m ³)		Law limits (ppm or mg/m ³)	
	Tsp	PM10	Tsp	PM10

4.2 Work environmental emissions

Noise (Annex 7 of ER)				
Location	Average level (db)		Law limits (db)	
Dust (Tsp, PM10) (Annex 8 pre-table 1 of ER)				
Location	Concentration (ppm, mg/m ³)		Law limits	
	Tsp	PM10	Tsp	PM10
Gases and vapors (Table 1 Annex 8 of ER)				
Location	Pollutant	Concentration (ppm or mg/m ³)	Law limits (ppm or mg/m ³)	

4.3 Wastewater (end-of-pipe)

Indicators	*Discharge(m ³ /year)	Concentration (ppm)	Pollution load (tons/year)	Law limits
pH				
BOD				
COD				
TSS				
Heavy metal				
Others				

4.4 Hazardous Material

Type	Quantity (tons/year)	Management

4.5 Solid Waste

Source	Solid classification	*Annual Quantity (ton)	Management

4.6 Hazardous waste

Source	Hazardous waste classification	*Annual Quantity (ton)	Management

5. Existing pollution Abatement units

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6. Non-compliance issues

This section should present a summary of non-compliance issues as concluded from previous tables

7. Causes for non-compliance and planned solutions

Based on the non-compliance issues identified in section 6 describe what causes these issues. In a certain location, emissions in workplace for example, can be caused by a number of sources.

Planned activities to reach compliance should be explained. Sometimes more than one activity can be performed to reach compliance (e.g. in a paper factory TSS in WW has been reduced first by fiber removal and recycling, then by treatment).

The following categories should be addressed according to need:

1. Air emissions.
2. Wastewater.
3. Work Environment.
4. Hazardous materials & hazardous wastes.
5. Environmental Register

8. List of Sub-Projects

The projects identified in the previous section should be listed in the following table:

	Sub-Project Name	Cost	Type	Duration
1				
2				
3				
4				
5				

9. Sub-Project Requirements

Please fill the following table for each sub-project with special emphasis on the sub-project description

Sub-Project Name:	
Sub-Project Description:	
Sub-Project Cost:	
Source of finance:	
Economic Benefits:	
Environmental Impacts:	

10. Action plan

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

11. Environmental management of CAP

- 1- Work team responsible for CAP implementation.
- 2- Distribution of Responsibilities.
- 3- Resources of work team.

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							