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Minutes of Meeting
Between
The Egyptian Mid-Term Evaluation Team
And
The Japanese Mid-Term Evaluation Team
On
The Regional Environmental Management Improvement Project
In
The Arab Republic of Egypt

The Japanese Mid-Term Evaluation Team (hereinafter referred to as 'the Japanese Team'), organized by Japan International Cooperation Agency (hereinafter referred to as 'JICA') and headed by Mr. Kiyoshi Masumoto, visited the Arab Republic of Egypt (hereinafter referred to as 'Egypt') from June 11 to July 4, for the purpose of conducting the joint mid-term evaluation on the Regional Environmental Management Improvement Project (hereinafter referred to as 'the Project') on the basis of the Record of Discussions signed on October 31, 2005.

During its stay in Egypt, the Japanese Team had a series of discussions and exchanged views with the Egyptian Mid-Term Evaluation Team (hereinafter referred to as 'the Egyptian Team') headed by Eng. Ahmad Abou Elseoud.

As a result of discussions, the Egyptian Team and the Japanese Team mutually agreed upon the Mid-Term Evaluation Report and Revised PDM / PO attached as annexes.

Cairo, 4 July, 2007

Mr. Kiyoshi Masumoto

Leader

Japanese Mid-Term Evaluation Team
Japan International Cooperation Agency
(JICA)

Ahmed A. Elseond

Mr. Ahmed Abou El Seoud Ahmed Project Director Under secretary of Central Department of Air Quality and Noise The Egyptian Environmental Affairs Agency (EEAA)

Appendix I The Mid-Term Evaluation Report

# THE MID-TERM EVALUATION REPORT ON REGIONAL ENVIRONMENT MANAGEMENT IMPROVEMENT PROJECT IN THE ARAB REPUBLIC OF EGYPT

Cairo, July 4, 2007

**Mid-Term Evaluation Team** 

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# Abbreviations and Acronyms

Α	AlexRBO	Alexandria Regional Branch Office
	AQD	Air Quality Department
	AQM	Air Quality Monitoring
	AQI	Air Quality Index
В	BAU	Business as usual
	BD	Basic Design
	BTEX	Benzene, Toluene, Ethylene, and Xylene
С	CA	Chief Advisor
C	CAIP	Cairo Air Improvement Project
	CC	Coordination Committee
	CCC	Cairo Central Center, EQS
	CDBA	Central Department of Branch Affairs, EEAA
	CDCEA	Central Department for Communication and Environmental Awareness,
		EEAA
	CIDA	Canadian International Development Agency
	CMB	Chemical Mass Balance (Method)
	C/P	Counterpart Personnel
D	DANIDA	Danish International Development Assistance
E	EEAA	Egyptian Environmental Affairs Agency
	EIA	Environmental Impact Assessment
	EMD	Environmental Management Department, RBO
	EMG	Environmental Management in the Governorates
	EMS	Environmental Management Sector, EEAA
	EMTP	Environmental Monitoring Training Center Project
	EMTP-FU	Environmental Monitoring Training Center Project (Follow-up)
	EMU	Environmental Management Unit, Governorates
	EPAP	Egyptian Pollution Abatement Project
	EPRI	Egyptian Petroleum Research Institute
	EQD	Environmental Quality Department, RBO
	EQS	Environmental Quality Sector, EEAA
	ESP	Environmental Sector Programme
	E/N	Exchange of Notes
F	FGM	Flue Gas Measurement
	FT-IR	Fourier Transform Infrared Spectrophotometer
	FY	Fiscal Year
G	GC	Gas Chromatograph
	GC-MS	Gas Chromatograph-Mass Spectrometer
	GC-FID	Gas Chromatograph-Flame Ionization Detector
	GCRBO	Greater Cairo RBO
	GDP	Gross Domestic Product
	GDT	General Department for Training (in CDCEA)
	GDME&E	General Directorate of Media and Environmental Education
	GEAP	Governorate Environmental Action Plan
	GIS	Geographical Information System
	GNP	Gross National Product
	GOE	Government of the Arab Republic of Egypt
I	ISOS	Identification System of Spilled Oil Sources
J	JBIC	Japan Bank for International Cooperation
	JCC	Joint Coordinating Committee
	ЛСА	Japan International Cooperation Agency
	JIS	Japanese Industrial Standards
L	LE	Egyptian Pound
M	M/M	Minutes of Meeting

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	MNR	Mansura
N	NEAP	National Environmental Action Plan
	NGOs	Nongovernmental Organizations
	NOx	Nitrogen Oxides
	NRC	National Research Center
O	ODA	Official Development Assistance
	OJT	On the Job Training
	O/M	Operation and Maintenance
P	PAHs	Poly-cyclic Aromatic Hydrocarbons
	PCB	Polychlorinated Biphenyl
	PCM	Project Cycle Management
	PDM	Project Design Matrix
	PM	Particle Matter
	PO	Plan of Operation
	POPs	Persistent Organic Pollutants
	PVC	Polyvinyl Chloride
R	RBOs	Regional Branch Offices
	R/D	Record of Discussions
S	SOx	Sulfur Oxides
	SPM	Suspended Particle Matter
	SRBA	Sector for Regional Branches Affairs (in EEAA)
T	TA	Technical Assistance
	TNA	Training Needs Analysis
	TNT	Tanta
	TOR	Terms of Reference
	TOT	Training of Trainers
	TSP	Total Suspended Particles
U	UF	Fluorescence Spectroscopy
	UNEP	United Nations Environment Programme
	USAID	The United States Agency for International Development
	UV-VIS	Ultraviolet-Visible Spectrophotometer
V	VIS	Vehicle Inventory Survey
	VOCs	Volatile Organic Compound
W	WB	World Bank
	WG	Working Group

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#### 1. INTRODUCTION

#### 1-1 Objectives of the Evaluation

The evaluation activities were performed with the following objectives:

- (1) To exchange opinions with counterparts in order to assess the present situations, including achievements, according to the project plan
- (2) To evaluate based on the Five Evaluation Criteria (Relevance, Effectiveness, Efficiency, Impact and Sustainability)
- (3) To discuss together with Egyptian counterparts based on the evaluation and make necessary decisions, including revision of PDM for the remaining period of the project
- (4) To sign on Minutes of Meeting attached with the Evaluation Report

#### 1-2 Method of the Evaluation

The Evaluation Team (hereinafter referred to as "the Team") conducted surveys by questionnaires and interviewed the counterpart personnel (herein after referred to as "C/Ps"), and the Japanese experts as well as those officials concerned with the Project. The Team also made the field visit to the RBOs and other project sites. The Team analyzed and evaluated the Project from the viewpoints of evaluation criteria according to the method of Project Cycle Management (PCM).

The Evaluation Team reviewed all activities and achievement, and evaluated the Project based on the following five criteria:

#### (1) Relevance:

The extent to which the Project Purpose and Overall Goal are consistent with the government development policy of Egypt as well as the development assistant policy of Japan, and needs of beneficiaries.

# (2) Effectiveness:

The extent to which the Project has achieved its purpose, clarifying the relationship between the Project Purpose and Outputs.

#### (3) Efficiency:

The extent to how economically resources/inputs (funds, expertise, time, etc.) are converted to results/output with particular focus on the relationship between inputs and outputs in terms of timing, quantity and quality.

#### (4) Impact:

Project effect on the surrounding environment in terms of technical, socio-economic, cultural, institutional and environmental factors. Project impacts are cross-tallied according to positive or negative effects.

#### (5) Sustainability

Sustainability of the Project is assessed from the standpoint of organizational, financial and technical aspects, by examining the extent to what the achievements of the Project will be sustained or expanded after the assistance is completed.

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# 1-3 Members of the Evaluation Team

<Egyptian side>

- 1267	ptian side				
1	Eng. Ahmed Abou El	Project Director	Undersecretary, Air and Noise Pollution		
	Soeud	WG6 Leader	Department, EEAA		
2	Ms. Kawser Hefny	WG1 Leader	Deputy Manager, Air Quality Dept., and Chief of CCC, EQS		
3	Ms. Laila El Khouli	WG2 Leader	General Director, Suez RBO		
4	Dr. Hoda Elshayeb	WG3 Leader	General Director, GDT		
5	Mr. Hussein Emam	WG3 Sub-Leader	GDT		
6	Ms. Eng. Hoda Mostafa	WG4 Leader	Director of the Lab. Alex RBO		
7	Ms. Elham Rafaat	CC1 Leader	Director, Hazardous Substance Dept. EMS		
8	Mr. Fouad Megahed	WG5 Leader	General Director, Public Awareness Dept., CDCEA		
9	Eng. Sayed Mostafa	CC2	SRBA		
10	Ms. Heba M. Hasaanein	Assistant Project Director	International Relation Department, EEAA		

<Japanese side>

anese side/		
Mr. Kiyoshi Masumoto	Leader	Director, Group II,
		Global Environment Dept.
		ЛСА
Mr. Hiromi Chihara	Environmental	Senior Advisor,
	Management	Institute for International Cooperation, JICA
Ms. Eriko Tamura	Cooperation	Environmental Management Team II
i	Planning	Group II, Global Environment Dept.
	-	JICA
		JICA
Ms. Shinobu Mamiya	Evaluation Analysis	Consultant, Global Link Management
Mr. Alaa El-din Hassan	Evaluation Analysis	Evaluation Advisor
Moussa		JICA Egypt Office
	Mr. Hiromi Chihara Ms. Eriko Tamura Ms. Shinobu Mamiya Mr. Alaa El-din Hassan	Mr. Hiromi Chihara Environmental Management  Ms. Eriko Tamura Cooperation Planning  Ms. Shinobu Mamiya Evaluation Analysis  Mr. Alaa El-din Hassan Evaluation Analysis

# 1-4 Schedule of the Evaluation

Dat	e		Schedule	
10/Jun.	Sun		(Ms.Mamiya) Departure from Japan	
11/Jun.	Mon		(Ms.Mamiya) Arrival at Egypt	
12/Jun.	Tue		Meeting with JICA Egypt, Expert Team.	
		12:00	Courtesy call and Orientation Meeting w/ key C/Ps of EEAA(Eng.	
			Ahmed, Ms. Heba, Ms Kawser, representative of SRBA, Dr. Hoda (or	
			Ms. Laila), Mr. Fouad, and Ms. Elham)	
			Collection of data/ information from Expert	
13/Jun.	Wed		Interview Meeting with Suez RBO	
14/Jun.	Thu		Interview and Meeting with GC RBO	
15/Jun.	Fri		Interpretation of data and information/Data Analysis	

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16/Jun.	Sat	T	Interpretation of data and information/Data Analysis	
17/Jun.	Sun	10:00	Meeting with WG1	
		12:00	Meeting with WG6	
18/Jun.	Mon	10:00	Interview with Donors (DANIDA)	
10.11.	112011	12:00	Meeting with CC1 -> Move to Alexandria	
	Tue		Meeting with Alex RBO -> Move to Cairo	
20/Jun.	Wed	11:00	Meeting with WG3	
20/0411	,,,,,,,	13:00	Meeting with CC2	
21/Jun.	Thu	10:00	Meeting with WG5	
21/3011	/ 110	10.00	Preparation for Workshop	
22/Jun.	Fri	1	Interpretation of data and information/Data analysis	
22/34111.	1	İ	(Mr. Masumoto) Departure from Japan	
23/Jun.	Sat		(Mr. Masumoto) Arrival at Egypt	
25/3 till.	Oili		(Ms. Tamura) Departure from Israel, Arrival at Egypt	
			Interpretation of data and information/Data analysis	
,		1	Preparation of Workshop	
24/Jun.	Sun	9:30	Meeting with JICA Egypt	
27/Juii.	) Suii	11:00	Courtesy call to EOJ	
		14:00	Meeting with Project Director and Assistant Project Director	
		15:00	Meeting w/ Expert Team	
25/Jun.	Mon	13.00	Evaluation Workshop with key C/Ps of EEAA/ RBOs	
25/5 till.	WIOII	į	Presentation on REMIP activities by key C/Ps of EEAA/ RBOs	
			Review of the Achievement of activities by WG/CC	
26/Jun.	Tue		Evaluation Workshop with key C/Ps of EEAA/ RBOs	
20/0411.	Tuc		Problem Identification	
			Problem Identification     Discussion for countermeasures	
27/Jun.	Wed	12:30	Inspection/ fact-finding visit to GC RBO	
28/Jun	Thu	10:00	Discussion/ Evaluation on achievements of CC1	
20/Juli	1114	12:00	Discussion/ Evaluation on achievements of CC1  Discussion/ Evaluation on achievements of CC2, WG2	
	ļ	12.00	(Mr. Chihara) Departure from Japan	
29/Jun.	Pri	ļ	(Mr. Chihara) Arrival at Egypt	
27/aun.	' ' '		Preparation of the draft of the Evaluation Report	
30/Jun.	Saf	<del> </del>	Preparation of the draft of the Evaluation Report	
1/Jul.	Sun	9:30	Discussion/ Evaluation on achievements of WG6	
17041.	Juli	11:00	Discussion/ Evaluation on achievements of WG3	
		12:00	Discussion/ Evaluation on achievements of WG5	
		13:00	Discussion/ Evaluation on achievements of WG1	
2/Jul.	Mon	10:00	Discussion/ Evaluation on achievements of WG4	
	1,1011	11:00	Joint Preparation of Evaluation Report	
3/Jul.	Tue	† <del></del>	Preparation of Evaluation Report	
4/Jul.	Wed	<del> </del>	Signing on Minutes of Meeting and Evaluation Report	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Reporting to JICA Egypt and EOJ	
			Departure from Egypt	
5/Jul.	Thu		Arrival at Japan	
S/Jul.	ınu		Arrivai at Japan	

# 2. OUTLINES OF THE PROJECT

#### 2-1 Background of the Project

The executive statutes (promulgation in 1995) based on the Environment Law No.4 /1994 have been enforced completely in 1998. The Egyptian Environmental Affairs Agency (EEAA) has set up Cairo Central Center (CCC) at central level and eight (8) Regional Branch Offices (RBOs) as the agency branch local offices, which act roles of monitoring environmental affairs and sources of pollutants in order to strengthen the enforcement of the Environment Law. The Government of Japan (GOJ) through Japan International Cooperation Agency (JICA) provided the technical support in the form of technical

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cooperation projects, i.e. the Environmental Monitoring Training Center Project (EMTP) and its follow-up project (EMTP-FU), from August 1997 to October 2004 to develop the capacities of EEAA staff in environmental analytical and monitoring fields. Besides, the GOJ provided the fundamental and also advanced analytical laboratory equipment to CCC and RBOs on the grant basis.

While EEAA presently has possessed the basic environmental analytical and monitoring technologies through the previous cooperation projects, EEAA has not yet completely acquired the sufficient level of technologies for proposing countermeasures against the existing regional environmental issues. Under these circumstances, the Government of Egypt (GOE) requested the new project for the purpose of the capacity development in environmental management based on the technical achievements obtained through EMTP and EMTP-FU.

According to the request above, the JICA dispatched the 1<sup>st</sup> and the 2<sup>nd</sup> Preliminary Study Mission to Egypt in December 2004 and March 2005 respectively. Based on the result of the preliminary studies, the both sides agreed on the contents of the Regional Environmental Management Improvement Project (REMIP) and signed on the Record of Discussions (R/D) on October 31, 2005, which stipulated the framework of the project. The project was started from November 2005.

## 2-2 Objective of the Project

The expected Overall Goal, Project Purpose and Outputs written in the original PDM for REMIP are as follows:

# Overall Goal:

Egyptian Environmental Affairs Agency (EEAA) and its Regional Branch Offices (RBOs) together with other competent stakeholders become capable of evaluating environmental situations, identifying the problems, defining the causes of such problems, acknowledging possible solutions, and implementing countermeasures through raising the environmental awareness of EMUs, enterprises, NGOs, and citizens.

# **Project Purpose:**

EEAA and its RBOs are enhanced on the capability of managing environmental data and information, suggesting countermeasures through On-the-Job Training.

#### Outputs:

- Staff of EQS and EQD of RBOs becomes capable of proposing countermeasures against environmental
  pollutions (site-evaluation, technical and administrative measures) based on the data and information
  collected and interpreted.
- 2. Staff of EQS and EMS of EEAA, and EQDs and EMDs of RBOs becomes capable of designing and identifying hazardous substances, compiling the data and information, and assessing their risks.
- 3. Staff of CDCEA becomes capable of planning, designing, and implementing trainings within EEAA based on the information provided by all other relevant departments/organizations.
- EEAA and its RBOs become capable of raising public awareness to EMUs, enterprises, NGOs, and citizens.

Through the discussion on the Evaluation Workshop held on 25<sup>th</sup> and 26<sup>th</sup> June 2007, the C/Ps and the Evaluation Team found that the modification of Outputs in PDM, based on the work plans utilized in REMIP would be necessary for the smooth monitoring of the project activities and agreed to use the modified Outputs shown below for monitoring after this Mid-Term Evaluation Study.

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#### **Modified Outputs:**

- EQS of EEAA and EQDs of RBOs become capable of proposing countermeasures against air pollutions (site-evaluation, technical and administrative measures) based on the data and information collected and interpreted. (WG1)
- Suez RBO becomes capable of proposing countermeasures against oil pollutions (site-evaluation, technical and administrative measures) based on the data and information collected and interpreted.(WG2)
- 3. EQS and EMS of EEAA, and EQDs and EMDs of RBOs become capable of identifying hazardous substances, compiling the data and information, and identifying their risks.(CC1)
- 4. CDCEA( GDT) of EEAA becomes capable of planning, designing, and implementing trainings within EEAA based on the information provided by all other relevant departments/organizations.(WG3)
- EQD and EMD of Alex RBO become capable of proposing Production Process Improvement as well as the Pollution Abatement for industries/factories based on the data and information collected and interpreted.(WG4)
- 6. EEAA and concerned RBOs become capable of raising public awareness to EMUs, enterprises, NGOs, and citizens.(WG5)
- 7. AQD and GDME&E of EEAA become capable of disseminating the environmental information to the public by effectively utilizing the Real-Time Air Monitoring Station with Display. (WG6)
- 8. SRBA of EEAA and concerned RBOs become capable of enhancing their capacities by mutual interaction through CC2 mechanism.(CC2)

#### 2-3 Project Framework

See ANNEX 8 (Conceptual Diagram of REMIP/JICA).

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# 3. PROGRESS OF THE PROJECT

The Team reviewed the progress of the Project in accordance with the modified PDM. (PDM1)

# 3-1 Progress of Activities

Overall, some delays in progress of activities have been observed. The different interpretation of project concepts and procedures by both Egyptian and Japanese sides caused the delays in project implementation in the first year. Some planned activities needed to be rescheduled and work plan of each working group /coordination committee (WG/CC) required modification. However, after the consensus was made in each WG/CC, the progress of activities has been accelerated and steady progress has now been observed.

Progress of activities has been examined at the Evaluation Workshop by those representing each WG/CC according to their work plans. Activities carried out up to the Mid-Term Evaluation are summarized as follows:

	Activities	Current Progress
	1: EQS of EEAA and EQDs of RBOs become capable of proposing	
	e-evaluation, technical and administrative measures) based on the rpreted.(WG1)	e data and information collected and
1-1	To enhance the capability of making emission inventories	According to the self-evaluation at
	and analyzing emission loads at the selected areas.	Evaluation Workshop, activities have been
1-1-1	Conduct Stationary Inventory Survey and database	progressed as planned in general except
1-1-2	Conduct Vehicle Inventory Survey	(1-1-1) in which some constraints were
1-1-3	Conduct Survey of Present Rice Straw Burning Pattern	raised. Activities (1-1-4) and (1-1-7) will be
1-1-4	Conduct Survey on Other Surface Emission Inventory	carried out in the latter half of project period.
1-1-5	Conduct Flue Gas Measurements	
1-1-6	Conduct Rice Straw Burning Experiment	
1-1-7	Investigate Emission Factors	
1-2	To enhance the capability of collecting data related to	The data collection has been progressed as
	ambient air quality at sites.	planned.
1-2-1	Collect Past Monitor Record (Two years)	
1-2-2	Collect Past Measurements on Lead, EPAP programme	
1-3	To monitor air quality of regional hot spots with passive	Integrated Passive Sample Measurements
	samplers in Nile delta area and the Greater Cairo.	were conducted by three RBOs. Tanta and
1-3-1	Conduct Four Season's Integrated Passive Sampling	Mansura RBOs have achieved a great deal.
	Measurements and one extra during the black smoke period	It is expected to improve the achievement of
	in GCRBO, TNT and MNR.	GC RBO.
1-4	To enhance the capability of interpreting and appreciate	Activities are slightly delayed. Many
	overall ambient air quality at sites.	discussion were conducted to clarify the
1-4-1	To analyze the data of all pollutants on SOx NOx, TSP	contents of activities.
	measured in the activities 1-2-1, 1-2-2 and 1-3-1 as OJT.	
1-5	To develop the tool of preparing the countermeasures	Activities have not yet started. They are
	against air pollutions.	scheduled to start from the early July, 2007.
1-5-1	Conduct Overall Load Analysis	
1-5-2	Conduct Simulation Model Development	·
1-6	To implement On-the-Job Training for proposing	Activities are scheduled at the end of the
	countermeasure plan against air pollution	project period when the countermeasures are
1-6-1	Conduct OJT Training on Methodology for Countermeasure	to be prepared and examined. The final
	Preparation	outcome will be shared at the workshop.
1-6-2	Conduct OJT Training and workshop on Analysis of Survey	
	Results	

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	<ol><li>Suez RBO becomes capable of proposing countermeasures ag mical and administrative measures) based on the data and inform</li></ol>	
2-1	To implement On-the-Job Training for proposing countermeasure plan for reducing oil pollution risk in Suez region.	Equipment was received at April 2006 and activities were progressed steadily. Baseline survey has been progressed as planned.
2-1-1	<setup and="" group="" initiation="" of="" the="" working=""> Organize WG2 for oil pollution program. Discuss the basic policy and strategy of the WG2's activities.</setup>	Three workshops for inventory survey capacity building for EMD taskforces were
2-1-2	<baseline data="" survey=""> Collect data/information on the current situation of oil</baseline>	done.
	pollution issues in Suez Region and share them among group members.	Crude oil & derivatives inventory survey database are being built.
2-1-3	<problem identification="" issues="" oil="" on="" pollution="" present=""> Identify problems in present management systems of oil pollution.</problem>	Inventory survey by Suez RBO has almost been finalized.
2-1-4	<inventory of="" oil="" pollution="" sources="" survey=""> Make the inventory and clarify possible oil pollution sources.</inventory>	As for the activity (2-1-3) and (2-1-4), some
2-1-5	<examination and="" countermeasures="" effect="" evaluation="" of="" the="" their=""> Formulate the countermeasures against oil pollution issues. Evaluate the countermeasures against oil pollution issues.</examination>	delays have been observed.  Activities from (2-1-5) through (2-1-8) are
2-1-6	Preparation of recommendation report> Recommend integrated countermeasures against oil pollution issues in the Suez Region.	scheduled to start at the end of June, 2007.
2-1-7	<seminar of="" ojt="" presentation="" results="" the=""> Share the results of OJTs on the countermeasure formulation and the fingerprint analysis technology in the seminar.</seminar>	
2-1-8	<pre></pre>	
2-2	To implement On-the-Job training dealing with oil fingerprint analysis.	Several technical trainings were conducted, and their evaluation and skill needs
2-2-1	<training analysis="" and="" fingerprint="" for="" identification<br="" oil="" program="">system of oil pollution sources (ISOS)&gt; Prepare the training program for fingerprint analysis. Discuss basic scheme and methodology for identifying oil pollution sources (ISOS).</training>	assessment were done.  Preparation for countermeasure plan for Northern Suez Gulf Region is in progress.
2-2-2	<discussion collection="" data="" fingerprint="" of=""> Discuss and make the plan for collection concerning fingerprint data of oils.</discussion>	
2-2-3	<technical analysis="" fingerprint="" of="" training=""> Hold the 1st technical training of fingerprint analysis and data evaluation to carry out the identification of oil pollution sources. Hold the 2nd technical training to supplement the 1st technical training.</technical>	Activities (2-2-3) and (2-2-4) will be started after July, 2007.
2-2-4	<ul> <li>Measuring and compiling of oil fingerprint data&gt;</li> <li>Collect crude oils to be analyzed.</li> <li>Conduct fingerprint analysis of crude oils and furnish the database of fingerprint data.</li> </ul>	
sub	3: EQS and EMS of EEAA, and EQDs and EMDs of RBOs become stances, compiling the data and information, and identifying their	r risks (CC1)
3-1	To establish committees among hazardous substances department and stakeholders	CC1 started the activities dealing with PCBs for the first stage. PAHs and heavy metals

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3-2	To collect information to identify hazardous chemical	(Cd, Cr) will be focused on the second stage
	substances in order to implement surveys for preparation of	which will start from Sept. 2007 Baseline
	inventory, monitoring and treatment	survey on PCBs has been carried out as
3-2-1	To collect existing research and monitoring data on PCBs	planned.
3-2-2	To collect existing research and monitoring data on PAHs	
3-2-3	To collect existing research and monitoring data on heavy	
	metals (Cd, Cr)	
3-3	To implement surveys for preparation of inventories and to	Inventory survey was conducted to identify
	identify potential contaminated sites	potential contaminated sites for PCBs.
3-3-1	To implement surveys on PCBs	
3-3-2	To implement surveys on PAHs	
3-3-3	To implement surveys on heavy metals (Cd, Cr)	
3-4	To implement On-the-Job Training for sampling and	Training was conducted for sampling and
1	analyzing hazardous chemical substances, monitoring and	analyzing PCBs.
	interpreting of monitoring data, and proposing counter	
	measures	
3-4-1	To implement On-the-Job Training on PCBs	
3-4-2	To implement On-the-Job Training on PAHs	
3-5	To share information through coordination committee with	With the collaboration of other stakeholders,
	other ministries, institutions, universities, etc. related to	monitoring and analysis on polluted sites
	hazardous chemical substance management	were done for PCBs.
3-5-1	To prepare a report and to share information on PCBs	
3-5-2	To prepare a report and to share information on PAHs	
3-5-3	To prepare a report and to share information on heavy	
l	metals (Cd, Cr)	
3-6	To hold seminar(s) on monitoring of hazardous chemical	A seminar was done to monitor the PCBs
Ì	substances and countermeasures such as best available	and reports were prepared.
	technologies of handling hazardous chemical substances	
3-6-1	To hold a seminar for discussion about existing condition of	
j	PCBs pollution, possible pollution sources and	
	countermeasures on the problem with relevant stakeholders	
3-6-2	To hold a seminar for discussion about existing condition of	
	PAHs pollution, possible pollution sources and	
	countermeasures on the problem with relevant stakeholders	
3-6-3	To hold a seminar for discussion about existing condition of	
} }	heavy metals (Cd,Cr) pollution, possible pollution sources	
•	and countermeasures on the problem with relevant	
	stakeholders	Auticity (2.7) will be asserted and for the
3-7	To hold a seminar (Environmental Monitoring of hazardous	Activity (3-7) will be carried out for the second stage. It is scheduled in February or
1	chemical substances in Arab Countries) hosted by Egypt	March, 2008.
	(EEAA)	
3-8	To establish a database to be used for PCBs /PAHs/heavy	Database formulation using the existing
<b></b>	metals (Cd, Cr)	database will be included as REMIP
3-8-1	To make a data entry of D.B of PCBs	activities.
3-8-2		
3-8-3	To make a data entry of D.B for PAHs	
000	To make a data entry of D.B. for heavy metals (Cd, Cr)	
3-9	To make a data entry of D.B. for heavy metals (Cd, Cr)  To prepare guidelines for hazardous substances	Report preparation with management
	To make a data entry of D.B. for heavy metals (Cd, Cr)  To prepare guidelines for hazardous substances management including recommendation to strengthen the	Report preparation with management recommendations will be made at the end.
	To make a data entry of D.B. for heavy metals (Cd, Cr)  To prepare guidelines for hazardous substances	
3-9	To make a data entry of D.B. for heavy metals (Cd, Cr)  To prepare guidelines for hazardous substances management including recommendation to strengthen the institutional system and to identify the risks.	recommendations will be made at the end.
3-9 Output	To make a data entry of D.B. for heavy metals (Cd, Cr)  To prepare guidelines for hazardous substances management including recommendation to strengthen the institutional system and to identify the risks.  4: CDCEA(GDT) of EEAA becomes capable of planning, designing	recommendations will be made at the end.  g, and implementing trainings within EEAA
3-9 Output bas	To make a data entry of D.B. for heavy metals (Cd, Cr)  To prepare guidelines for hazardous substances management including recommendation to strengthen the institutional system and to identify the risks.  4: CDCEA(GDT) of EEAA becomes capable of planning, designing on the information provided by all other relevant departments	recommendations will be made at the end. g, and implementing trainings within EEAA (organizations (WG3)
3-9 Output	To make a data entry of D.B. for heavy metals (Cd, Cr)  To prepare guidelines for hazardous substances management including recommendation to strengthen the institutional system and to identify the risks.  4: CDCEA( GDT) of EEAA becomes capable of planning, designing on the information provided by all other relevant departments.  To register all courses of staff trainings of departments within	g, and implementing trainings within EEAA lorganizations.(WG3)  Current training courses in EEAA/RBOs
3-9 Output bas	To make a data entry of D.B. for heavy metals (Cd, Cr)  To prepare guidelines for hazardous substances management including recommendation to strengthen the institutional system and to identify the risks.  4: CDCEA(GDT) of EEAA becomes capable of planning, designing on the information provided by all other relevant departments	recommendations will be made at the end. g, and implementing trainings within EEAA (organizations.(WG3)

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4-2	To discuss and summarize needs of training with RBOs and	In the process of conducting the Training
	departments of EEAA	Needs Analysis, the format and the scope
4-2-1	Review mandates and required skills	of analysis were revised.
4-2-2	Conduct Training Needs Analysis (TNA)	Questionnaires for Training Needs Analysis
		(TNA) were completed and the analysis and
		data input are in progress.
4-3	To advise specific courses to be participated in by RBOs and	Preliminary planning of training courses will
	EEAA staff	be conducted shortly.
4- <del>4</del>	To administer and implement training courses, in	Implementation of training courses based on
	correspondence with other project activities. To prepare and compile materials for training courses	the plan will be started on November, 2007.
4-4-1	Practice trainings under REMIP	Upgrading of database was discussed.
	<del> </del>	It was found that the existing database was
4-4-2	Plan the preliminary training courses  Discuss on the database for training	not efficient through the discussion.
4-4-3		not discount through the discussion.
4-4-4	Implement the training course based on the plan	Activities and on (4.5) will be a side of the
4-5	To make feedback system of final evaluation of training	Activities under (4-5) will be carried out as
4 5 4	participants to be reflected on the course program	planned.
4-5-1	Revise the training plan	
4-5-2	Continue the training	-
4-5-3	Finalize the procedure of management of training courses 5: EQD and EMD of Alex RBO become capable of proposing Proc	luction Process Improvement so well as the
	lution Abatement for industries/factories based on the data and in	
5-1	To collect information on industrial pollution abatement	
	technologies including process improvements for compiling	
	as knowledge basis at selected industrial area(s) to use for	
	making factory inspection manuals/ guidelines for inspectors	
	of RBOs and EEAA, and for holding seminar(s) to introduce	
	and disseminate some successful cases of introductions of	Collection of information on overview of
	pollution abatement technologies for factories.	industrial sector in the Alexandria area,
5-1-1	To set up Working Group 4 (WG4) for Production Process	inventory of petroleum-related and
	Improvement Guidance	petrochemical in Alexandria were
5-1-2	To collect baseline information of industrial sector of	completed.
	Alexandria, carry out inventory for petroleum-related,	
	petrochemical and cement industry, and to compile the	Final report for baseline survey was
	information into a report.	completed.
5-1-3	To implement training and instruction of for pollution	
	abatement and process improvement for petroleum-related,	Ten companies were selected for the
	petrochemical and cement industry.	interviews. Survey checklist designed by
5-1-4	To implement factory interview surveys for collecting	WG4 was used for the interviews.
	information of planned project to adopt pollution abatement	Interviews for selected companies were
	technologies by factories themselves and proposing possible	completed.
E 1 E	new measures for pollution abatement on factories  To prepare a report of best practices and recommendations	•
5-1-5	for the industries.	
5-1-6	To hold a seminar to exchange information of pollution	Seminar is to be held in Jan. 2008 to
-0	abatement technologies among relevant stakeholders to	disseminate successful cases of pollution
	adopt pollution abatement technologies	abatement technology for petroleum -related
	adopt ponduoti dodtomont toomiologico	industry.
5-2	To implement OJT dealing with the factory inspections of	On the Job Training was conducted in the
[	RBOs staffs for reflecting those experiences to prepare a	form of lecture and sampling of BTEX and
L	new inspection manual.	solvent extraction for the 1st phase. 2nd Phase
5-2-1	To assist inspectors and other related staff of Alex RBO for	training included the analysis by GC-FID,
	inspection.	quality assurance /quality control, data
5-2-2	To prepare an inspection manual for petroleum-related and	interpretation and evaluation.
}	petrochemical industry	
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	Output 6: GDME&E of EEAA and concerned RBOs become capable of raising public awareness to EMUs, enterprises, NGOs, and citizens. (WG5)				
6-1	To implement prototype surveys of public awareness of potential target groups at selected site(s).	The first environmental awareness survey was implemented in five governorates			
6-1-1	Preparation of Work Plan for WG5	targeting for youth, women and farmers.			
	-Setting up WG5	The final report was completed by local			
	-Preparation of draft Work Plan and finalization	consultant. Four (4) members of WG5 were			
6-1-2	Implementation of the 1st public awareness survey	trained through the process of conducting			
1	-Selection of target areas and groups	survey.			
}	-TOR for the Survey				
	-Implementation of the Survey				
6-2	To analyze needs of awareness raising activities in	Activities under (6-2) have been rescheduled			
L	consultation with REMIP components and RBOs.	based on the discussion at the Consultation			
6-2-1	To specify outcomes, timing and target group for public	Mission.			
	awareness activities				
6-2-2	Review of the current public awareness activities				
6-2-3	Identify suitable public awareness activities				
6-3	To design awareness raising activities by using REMIP	Activities under (6-3) have been rescheduled			
}	outcomes in coordination with RBOs, other stakeholders	based on the discussion at the Consultation			
<u> </u>	such as media and NGOs.	Mission.			
6-3-1	To determine a message to each target group				
6-3-2	To select means (media and communication network) for				
<del></del>	dissemination of environmental information				
6-4	To administer and implement awareness raising activities for	Activities under (6-4) are to be started from			
}	industries, NGOs, farmers, citizens on the selected topics as	Sep. 2007.			
	indicated in the design sheets. To prepare and compile materials and to distribute to RBOs.				
641	Prepare necessary materials for public awareness activities				
6-4-1	Implementation of public awareness activities by using				
0-4-2	REMIP outcomes in coordination with RBOS.	1			
6-5	To implement the second survey for examining impact of 6-4	Activities under (6-5) will be carried out in			
	activities in RBOs.	2008.			
6-5-1	Prepare the TOR for the survey				
6-5-2	Implementation of the survey				
6-6	To share information through working group with other	Activity (6-7) is to be carried out at the end			
	ministries, institutions, universities, etc. related to public	of the project period.			
	awareness raising.				
6-7	To improve the existing awareness plan based on lessons	Activity (6-6) will be carried out in 2008.			
	learned up to activities 6-5				
	7: AQD and GDME&E of EEAA become capable of disseminating effectively utilizing the Real-Time Air Monitoring Station with Disp				
7-1	To install and operate the Real-Time Air Monitoring Station at	Executive work was done to establish the			
	Tahrir Square.	station approvals at Tahrir Square.			
		The installation of the station equipment and			
		test operation are in progress.			
1		Training on operation and maintenance of			
		the station equipment will be conducted.			
		(end of June 2007)			
-		The station will be linked to the National Air			
		Quality Monitoring Network in the middle			
<del></del>	The state of the s	of July, 2007.			
7-2	To Install the Display as a system to monitor the air pollution	The specification, tender for purchase will			
	in Cairo city.	be prepared and installation will be carried			
7.2	To manage the monitored data to ensure its relevance in	out.  Mechanism for the display operation			
7-3	To manage the monitored data to ensure its relevance in collaboration with AQD.	Mechanism for the display operation procedure will be developed. After training			
L	CONQUOTABLET MILITAGE.	procedure with be developed. After daining			

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		on its operation and maintenance, the dissemination of data will be started with the collaboration of AQD.
7-4	To implement awareness raising activities by utilizing a Real- Time Air Quality Monitoring Station with Display in collaboration with GDME&E.	All activities under (7-4) will be carried out in close collaboration with GDME&E.
7-4-1	To review the air monitoring data	
7-4-2	To design the contents to be displayed including AQI and environmental messages	
7-4-3	To conduct the experimental dissemination of AQI and environmental messages on the display	
7-4-4	To implement the campaign for explaining the air quality parameters	
7-4-5	To review the design of the contents based on the findings of experimental dissemination of information	
7-4-6	To enter into the daily operation of display	
7-4-7	To conduct the survey to measure the level of recognition by the pubic of Cairo	
7-5	To implement the OJT and other training through all the activities of 7-1 ~ 7-4.	
	<ul> <li>8: SRBA of EEAA and concerned RBOs become capable of enhar ough CC2 mechanism.(CC2)</li> </ul>	ncing their capacities by mutual interaction
8-1	To hold coordination committees among RBOs	Establishment of CC2 was done as planned.
8-1-1	Setting of Coordination Committee 2 for information sharing>	Key department members and CC2
	-Selecting group members	organization structure were finalized.
	-Holding kick-off meeting	
	-Discussion of basic approach to develop the CC2 mechanism	
8-1-2	<ul> <li>Understanding needs for information sharing&gt;</li> <li>Understanding of basic RBOs' capability related to technical</li> </ul>	
	topics under REMIP -Confirmation of the basic CC2 mechanism	
8-2	To implement seminars to share experiences of the OJT	
	activities at RBOs with other RBOs and departments.	
8-2-1	<pre></pre>	A kick-off seminar was held in Jan. 2007 to
	and knowledge obtained through REMIP activities/ OJT among RBOs>	share the concept of CC2 mechanism.
	-Determination of information and topics to be presented in	·
	sharing seminar	
	-Selecting of presenter from leading RBOs	:
	-Holding of sharing seminar	
8-3	To implement follow-up activities for the seminars of activity	Action plan of CC2 was developed and was
	8-2 at each RBOs.	submitted to all WGs/CCs and the JICA
8-3-1	< Preparation of the information sharing mechanism among RBOs>	experts for review.
	To develop the mechanism to share information under	
	REMIP	After the approvals of WGs/CCs, the request
8-3-1-1	To develop the action plan of CC2	will be made to WG3 to obtain the funds for
8-3-1-2	To request all WGs/CCs and the JICA experts to review the action plan.	training.
8-3-1-3	To obtain the approval from WGs/CCs.	
8-3-1-4	To obtain the funds from WG3 for one year training.	
8-3-2	<pre><implementation (advices="" from="" information="" leading="" of="" other="" rbos="" rbos)="" sharing="" the="" to=""></implementation></pre>	Sharing activities and training will be conducted among RBOs.
	To implement training by leading RBOs to the other RBOs under CC2 and WG3 initiatives	

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8-3-2-1	Materials, textbooks used through OJT by each WG/CC are collected by CC2.
8-3-2-2	To send these materials and textbooks to all other RBOs.
8-3-2-3	To conduct training according to the action plan for specific
•	RBOs.

#### 3-2 Inputs

Inputs to the Project during the past one and a half (1.5) years since its inception in November 20 2005 are as follows: Inputs were generally appropriate in terms of quantity and quality, however, timing of inputs, especially for some equipment provision have not served well to facilitate the implementation.

#### 3-2-1 Japanese Side

Most of the inputs from the Japanese side, such as dispatch of experts, training of C/Ps and local cost support, are executed as planned. Some delays have been observed for equipment provision.

#### (1) Dispatch of Japanese experts

Fifteen (15) experts in the thirteen (13) fields were dispatched. Details are given in the ANNEX 1.

# (2) Counterpart Training in Japan

Total of eight (8) counterparts participated in the counterpart trainings in Japan from January to February, 2007. Details are given in the ANNEX 2.

#### (3) Provision of Equipment

Equipment used for the technical transfer was provided from Japan. Details are given in the ANNEX 3 and ANNEX 4.

# 3-2-2 Egyptian Side

The Egyptian side nominated six (6) administrative management counterparts and sixty-six (66) technical counterparts for conducting project activities in the R/D. Some of them have left due to various reasons, and some has been newly appointed. Currently, six (6) administrative management counterparts and ninety-eight (98) technical counterpart in EEAA/RBOs have been carrying out the project activities in eight (8) WGs/CCs. The list of counterparts is shown in ANNEX 5. In addition, the Egyptian side has allocated the office space with utilities and some furniture for the Project.

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#### 4. RESULTS OF EVALUATION

# 4-1 Achievement of the Outputs and Project Purpose

The Team evaluated the achievements of Outputs and Project Purpose according to the indicators on PDM1 and summarized as follows:

#### 4-1-1 Achievements of the Outputs

# Output 1:

"EQS of EEAA and EQDs of RBOs become capable of proposing countermeasures against air pollutions (site-evaluation, technical and administrative measures) based on the data and information collected and interpreted."

Output 1 is the expected goal for WG1 on Regional Air Pollution Control Management System.

#### Indicators:

- 1-1 60% of energy consumption for 9 related target governorates are directly captured.
- 1-2 Emission Inventory Reports are prepared at selected sites.
- 1-3 Internal reports are issued based on the analysis of collected data.
- 1-4 EMA/EEAA MM5/CAMAX model are to be validated and executed in five scenarios (Present, 2012, 2017 in BAU and two scenarios in different social and economic development rates for Sox, Nox and TSP) with the reasonable level of accuracy.
- 1-5 Four activities required for countermeasure preparation are mastered by at least 10 staff representing EEAA, GCRBO, Tanta RBO and Mansura RBO.
- 1-6 Integrated workshop with at least 60 participants is to be conducted before the end of August 2008 in order to share countermeasure proposals for air quality.

According to the self-evaluation by the WG1 at the Evaluation Workshop, currently 20% of the energy consumption (mainly for power plant and cement sectors) has been captured. (Indicator of 1-1) The emission inventory reports have been in the process of preparation on rice straw burning test, vehicles and passive sampling. (1-2) And 80 % of data necessary for report preparation were collected and compiled. (1-3) Technical trainings on flue gas measurement, passive sampling, dispersion modeling, etc were conducted.

Although they have suffered the delay in the implementation for the first year, efforts by members have made it possible to keep them on the track. It is likely that Output 1 will be achieved by the end of the project period.

# Output 2:

"Suez RBO becomes capable of proposing countermeasures against oil pollutions (site-evaluation, technical and administrative measures) based on the data and information collected and interpreted."

Output 2 is the expected goal for WG2 on Oil Pollution Program.

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#### Indicators:

- 2-1 Integrated countermeasure plan that is effective for reducing oil pollution risk in Northern Gulf Region and viable for Suez RBO is prepared and approved by EEAA.
- 2-2 Database for fingerprint data on crude oil and derivatives is furnished.

In spite of the delay of equipment provision, most of activities have been implemented as planned. Suez RBO has now taken the strong initiative in expanding technical capacity in terms of reduction of oil polluted risk as well as working to establish the better collaboration with local government, such as EMUs. Considering the remarkable progress made up to now, it is very likely that Output 2 will be achieved by the end of the project period.

# Output 3:

"EQS and EMS of EEAA, and EQDs and EMDs of RBOs become capable of identifying hazardous substances, compiling the data and information, and identifying their risks."

Output 3 is the expected goal for CC1 on Sound Management on Hazardous Chemical Substances.

#### **Indicators:**

- 3-1 Monitoring report(s) are annually issued on hazardous chemical substances and information reported is shared and discussed with relevant stakeholders.
- 3-2 Reports of Egyptian situation of hazardous chemical substances are issued.
- 3-3 Number of staff acquires knowledge and skills to manage the process from identifying possible pollution sources by sampling and analysis of hazardous chemical substances, evaluation of analyzed data, identification of hazardous chemical substances risks, and proposing countermeasures.
- 3-4 Data of pollutants is compiled as database, and shared the database with EEAA and RBOs.
- 3-5 Guidelines for hazardous substances management are prepared.

CC1 started the activities dealing with PCBs for the first stage. PAHs and heavy metals (Cd, Cr) will be focused on the second stage which will start from Aug. or Sep.2007. Baseline survey on PCBs has been carried out as planned. Other planned activities have been steadily in progress. CC1 has successfully taken the initiative to conduct the activity for hazardous chemical substances management involving the external stakeholders, such as EMUs and universities. It is very likely that Output 3 will be achieved by the end of the project period.

## Output 4:

"CDCEA (GDT) of EEAA becomes capable of planning, designing, and implementing trainings within EEAA based on the information provided by all other relevant departments/organizations."

Output 4 is the expected goal for WG3 on Training Capability Enhancement Program.

#### Indicators:

- 4-1 All training courses held by EEAA are registered at GDT.
- 4-2 Training courses are implemented.
- 4-3 Evaluation by participants of training courses is utilized for improving new courses.
- 4-4 Materials for training are compiled in GDT.
- 4-5 At least 6 staff under GDT becomes capable of managing the procedures of training activities. (to conduct/analyze TNA, plan, implement and evaluate the training course)

Current training courses in EEAA/RBOs were reviewed as planned. The indicator (4-1), therefore, was

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achieved. Preliminary training courses will be started from July 2007, it is expected that members of WG3 can acquire the knowledge and skills to manage the courses in the process of implementing the trainings on-the-job basis. With the strong leaderships and initiatives of members of WG3, the Output 4 is expected to be achieved by the end of the project period.

#### Output 5:

"EQD and EMD of Alex RBO become capable of Production Process Improvement as well as the Pollution Abatement for industries/factories based on the data and information collected and interpreted."

Output 5 is the expected goal for WG 4 on Improvement Guidance of Production Process.

#### Indicators:

- 5-1 Manuals/quidelines for inspectors are prepared and published.
- 5-2 Seminars are held for industries to introduce successful introduction of cleaner production process including any good practices and of other organization(s).
- 5-3 Number of countermeasure proposals prepared by RBOs is increased in the target industries.
- 5-4 Assessed inspection reports for the selected industries show significant improvement in quality.
- 5-5 A report of best practices and recommendations for the selected industries is prepared and distributed.

Although they have encountered some difficulties such as cancellation of the sub-contract work and change of the key department in the implementation process for the first year, members have made a great effort to resolve issues in collaboration with JICA experts. Final report for baseline survey on overview of industrial sector in the Alexandria was completed and inventory of Petroleum-related and Petrochemical in Alexandria has been finished. It is very likely that Output 5 will be achieved by the end of the project period.

### Output 6:

"GDME&E of EEAA and concerned RBOs become capable of raising public awareness to EMUs, enterprises, NGOs, and citizens."

Output 6 is the expected goal for WG5 on Promotion of Public Awareness Raising Activities.

# Indicators:

- 6-1 Reports of baseline surveys of public awareness are issued.
- 6-2 The number and details of awareness raising activities conducted in REMIP are registered in CDCEA.
- 6-3 The report of second survey is issued.
- 6-4 Evaluation by participants of awareness raising activities is utilized for designing new activities.

The first environmental awareness survey was implemented in five governorates targeting for youth, women and farmers. The final report was prepared by the local consultant. Therefore, the indicator (6-1) has already been achieved. In this process, four (4) members of WG5 were trained in conducting survey.

On the other hand, the work plan of WG5 was revised at the Evaluation Workshop to clarify the roadmap to achieve the output. Therefore, it is suggested for WG5 to take necessary actions, such as assignment of the staff in charge for implementing the designed activities. If such actions are taken, it is likely that

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Output 6 will be achieved by the end of the project period.

#### Output 7:

"AQD and GDME&E of EEAA become capable of disseminating the environmental information to the public by effectively utilizing the Real-Time Air Monitoring Station with Display."

Output 7 is the expected goal for WG6 on Public Awareness Raising Activities Using Air Monitoring Station w/Display.

#### Indicators:

- 7-1 Real-time Air Monitoring Station with Display is operated and properly maintained.
- 7-2 Management plan of contents of the display is prepared.
- 7-3 Real-time Air Monitoring Station with Display is well-recognized by the people in Cairo city serving as "a symbol of environmental watchdog."

As for the indicator (7-1), the executive work was done to install the station at Tahrir Square and test operations are in progress. However, the progress of the activities has been delayed mainly due to the late preparation of the display specification before reaching to the consensus on the type of the display. Considering the time necessary for finalizing the procurement, it is likely that the Output 7 may not be completed within the project period. Therefore, it is expected that Output 7 will not be fully achieved by the end of the project period.

#### Output 8:

"SRBA of EEAA and concerned RBOs become capable of enhancing their capacities by mutual interaction through CC2 mechanism."

Output 8 is the expected goal for CC 2 on Sharing Information on REMIP among RBOs.

#### Indicators:

- 8-1 Seminar(s) for sharing the experiences and information obtained through REMIP activities are held among
- 8-2 To ensure that the mechanism for sharing the experiences and information among RBOs are developed, monthly reports from all RBOs include CC2 activities.

A kick off seminar of CC2 was done in Jan. 2007. And the framework of CC2 including the organizational structure was prepared. The Action Plan of CC2 was developed. Once the approval is obtained from all WGs/CCs, the CC2 will proceed the process to obtain the budget for training in consultation with WG3. As CC2 mechanism has been well-recognized among project members, it is expected that the communication and information sharing will be further enhanced among concerned RBOs. Therefore, it is likely that Output 8 will be achieved by the end of the project period.

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#### 4-1-2 Achievement of the Project Purpose

#### **Project Purpose:**

FEEAA and its RBOs are enhanced on the capability of managing environmental data and information, suggesting countermeasures through On-the-Job Training.

#### **Indicators:**

- PP1 Effective countermeasures for environmental pollution, hazardous substances are prepared.
- PP2 More concrete data, information and achievements obtained from RBO activities (including proposal of decrees) are published. (as a part of State of Environment (SOE) if SOE is published.)
- PP3 EEAA/RBOs start their new activities after sharing information and implementation of trainings.

In the field of air pollution, oil pollution and hazardous substances, relevant WGs/CC have now been carrying out their activities. Through these processes of activities, the capability to develop and to propose countermeasures are to be enhanced. Considering the current progress of those WGs/CC, it is likely that the effective countermeasure proposals are to be produced by the end of the project. (PP1)

Through the project activities, the relevant environmental data and information have been collected and analyzed by EEAA/ RBOs. These data and information has already been utilized in several reports. Therefore, it is very likely that they will regularly be used for the publication, such as the State of Environment. (PP2)

The information sharing activity initiated by CC2 has been well recognized among other WGs/CC as the promising mechanism to facilitate the collaboration among RBOs. Many of those interviewed during the evaluation study mentioned that there are great needs for EEAA/RBOs to expand its capacity by exchanging their knowledge and skills among themselves through such practices as trainings. And the CC2 will serve as the self-dependent mechanism for capacity development in EEAA/RBOs. On the other hand, as the activities using the Real-Time Air Monitoring Station with Display may not take place as planned considering the time necessary for finalizing the procurement, the capacity development of managing the environmental information will not be completed within the project period. For this reason, the indicator of PP3 will not be completely attained by the end of the project period. (PP3)

Although the capacity of staff of EEAA/RBOs has been steadily improved, it is difficult to conclude that the intended Project Purpose will fully be achieved within the project period.

#### 4-2 Project Implementation Process

The different interpretation of project concepts and procedures by both Egyptian and Japanese sides and the unclear administrative procedures in EEAA caused the delays in project implementation in the first year. However, after the consensus was made in each WG/CC, activities have been progressed as planned for the most of WGs/CCs in the second year. Most of C/Ps are actively participating in the project activities. Japanese experts and Egyptian C/Ps have been closely working together at EEAA headquarter as well as in leading RBOs such as Alexandria and Suez RBOs. Activities under Output 4, 6 and 7 have shown some delays. In order to speed up the implementation of activities, strong commitment is required.

It appears that the progress of project activities has been monitored according to the work plan that was

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supplimentarily prepared for the original PDM/PO. The communication among the project members has been very well. More efforts will be made to establish the collaboration and better communication with external stakeholders.

# 4-3 Evaluation under Five Criteria

#### 4-3-1 Relevance

The National Environmental Action Plan 2002-2017 (NEAP) which represents Egypt's agenda for environmental actions, includes three (3) major components that are the mandates of EEAA, such as the information and monitoring; preventive and corrective measures: and supportive measures. The five-year action plan of Environment (2002-2007) has fourteen (14) action programmes including "Capacity Development of EEAA and RBOs." In this aspect, the project's overall goal and project purpose have been consistent with the policy of the GOE and its needs of the target people.

The project has also relevant with the policy of Japanese Development Assistance. Japanese ODA policy puts high priority on environmental protection among three pillars in the sustainable development toward the assistance for Egypt. According to the JICA's Country-Specific-Assistance Program for Egypt, as of July 2006, it is stated that there is a great need to enhance the capability of EEAA so that it can cope with the emerging environmental issues as a key environmental organization. Furthermore, the Japanese assistance has its comparative advantages in transferring her environmental technologies to combat the environmental pollutions, as well as in sharing her experiences in public awareness raising and the environmental education.

#### 4-3-2 Effectiveness

# 1) Project Purpose

In the field of air pollution, oil pollution and hazardous substances, relevant WGs/CC have now been carrying out their activities. Through these processes of activities, the capability to developing and proposing countermeasures are to be enhanced. Considering the current progress of those WG/CCs, it is likely that the effective countermeasure proposals are to be produced by the end of the project.

Through the project activities, the relevant environmental data and information have been collected and analyzed by each RBO in collaboration with EEAA/RBOs. These information and data has already been utilized in several publications. Therefore, it is very likely that they will regularly be used for the publication, such as the State of Environment.

The information sharing activity initiated by CC2 has well recognized among other WG/CC as the possible effective mechanism to facilitate the collaboration among RBOs. Many of those interviewed during the evaluation study mentioned that there is a great needs for EEAA/RBOs to expand its capacity by exchanging their knowledge and skills among themselves in the form of trainings. And the CC2 mechanism should make this happen in the economical and effective way. As a result, it is very likely that the EEAA/RBOs will eventually generate and start their new activities.

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#### 2) Contribution of each output

Eight (8) outputs have been directly contributing to the Project Purpose and the Project is heading for the right direction. Combined efforts of Egyptian and Japanese sides have contributed to strengthening the capacity of EEAA/RBOs.

As shown in the attached diagram, each output is closely related each other. (See ANNEX 8 Conceptual Diagram of REMIP/JICA). Each output has been contributing to the achievement of the Project Purpose in the following manner. Output1 (conducted by WG1), Output 2(WG2) and Output 3 (CC1) have been carrying out activities to develop the effective countermeasures for air pollution, oil pollution and chemical hazardous substances respectively. Their activities are mainly focused on the data collection and analysis and its application to the countermeasure for specific environmental issues by strengthening the technical capacities. Output 5 (WG4) also carries out similar types of activities, but rather focused on the data collection through surveys in the production process improvement and pollution abatement.

Output 4 (WG3) would serve to further upgrade the technical capacity internally in collaboration with CC2, while Output 6 (WG5) will act together with external bodies, such as national and local authorities (EMUs), NGOs, private sectors and citizens, to mobilize them through awareness raising activities. Activities carried out by Output 7 (WG6) are expected to boost the project outcome with the presence of symbolic Real-Time Air Quality Monitoring with Display to the public of Cairo city. Achievements of most of these outputs are expected to be sustained through the information sharing mechanism of Output 8 (CC2) that will be built in EEAA/RBOs. In summary, most of all these Outputs are contributing to improve the individual capacity as well as the organizational capacity of EEAA/RBOs in the relevant fields.

# 3) Inhibiting factors to achieve the Project Purpose

The delay in awareness raising activity using the Real-time Air Monitoring Station with Display is likely to negatively affect the full achievement of Project Purpose within the project period. This implies that it might need more time to achieve the intended Project Purpose.

# 4-3-3 Efficiency

As previously explained, the Project suffered some delays of activities for the first year. Activities themselves were actually started from several months to one year later than its onset. However, combined efforts by both Egyptian and Japanese have greatly contributed to overcome such obstacles, and most of WGs/CCs have now been on right track for achieving their individual targets.

#### 1) Japanese Side

Most of the inputs from Japanese side, such as dispatch of experts, training of counterparts in Japan and local cost support, are executed as planned. Some delays in procurement process negatively affected the progress of project implementation. As for the counterpart trainings in Japan, it greatly served to improve and inspire the Egyptian counterparts; however, some consideration should be given to programming of specific technical aspects that will meet the needs of the Egyptian counterparts.

# 2) Egyptian Side

Egyptian side nominated six (6) counterparts for project administration and management and sixty-six

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(66) technical counterparts at the onset of the project. In the process of project implementation, the number of counterparts has been changed to six (6) for project administration and management and ninety-eight (98) as technical counterparts. In some WGs/CCs, some counterparts have moved out due to the organizational transfer or personnel matters. Insufficiency was pointed out by both sides regarding the logistic inputs such as transportation, accommodation and per diems which affected the smooth implementation of the project.

# 3) Management of the Project

Different interpretation of the project concept and procedures have resulted in the delay of progress of project activities, however, it has also resulted in building the strong rapport among the project members through discussions and obtaining the mutual understanding at the end. According to the questionnaire surveys and interviews during the study, key counterparts have multiple responsibilities, thus it takes some time in decision-making process. In spite of this, the excellent navigation of Project Director and Assistant Project Director has greatly contributed to accelerating the project progress.

## 4-3-4 Impact

The impact of the Project to the Overall Goal cannot be judged at the middle point of the project period. However, following positive impacts by the Project have been observed.

According to the questionnaires and interviews conducted during the evaluation study, it is revealed that some activities to improve environment at the community level have already been started in collaboration with EMUs in the targeted governorates. It also revealed one episode that the project's intention has been well-accepted by the industries in the process of survey for Production Process Improvement. One of targeted factories has been considering the environmental aspects in selection criteria of its equipment and facilities. Technical tools that are indispensable for environmental management, such as emission inventory and passive sampling introduced by the Project are considered to be effective to monitor and analyze the environmental issues.

Up to now, the impact of the project on its policies and regulations has not been observed yet. However, if concerned authorities have accepted countermeasures developed by EEAA/RBOs, it is very likely that the project will have significant impact on policies and institutions of environmental sector of Egypt.

No negative impact has been observed.

#### 4-3-5 Sustainability

## 1) Organizational aspects

The GOE has put high priority on the environmental issues by practicing the environmental law of No. 4 and National Environmental Action Plan (2002-2017), and the framework of environmental institutions has been established. Therefore, the GOE is expected to continue to support the environmental improvement. The GOE has placed the EEAA/RBOs to play a major role in the environmental sector. To retain the organizational sustainability, it is recommended that the EEAA should make continuous effort to upgrade its technical as well as organizational capacities.

#### 2) Financial aspects

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It is difficult to judge the financial sustainability at the middle of the project period. Considering that major donors may fade out gradually to provide the financial support to EEAA, the EEAA should make more effort to strengthen the budgetary sufficiency to sustain the impact of the Project. In this context, such efforts by Suez RBO to secure the sustainable laboratory management can be considered as a good practice to be expanded to other RBOs.

# 3) Technical aspects

Most of the counterparts have actively been participating in the project activities to improve their technical capabilities. A system of maintaining the technical capability obtained through the Project should be developed in EEAA/RBOs. Appropriate maintenance of equipment including the budgetary allocation is also necessary to secure the technical sustainability.

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# 5. MODIFICATION OF THE PDM

Based on the discussions among the Team and the concerned Egyptian authorities, it was agreed that the revised PDM (PDM1) will be used to monitor the project activities for the remaining period of the Project. Details of modification of the PDM are listed below:

**Details of Modification of PDM** 

Items	Modifications	Reasons
Outputs we	re rephrased in order to make it more specific for each WG/	cc.
Output 1	Output 1: EQS of EEAA and EQDs of RBOs become capable of proposing countermeasures against air pollutions (site-evaluation, technical and administrative measures) based on the data and information collected and interpreted. (WG1)  Output 2: Suez RBO becomes capable of proposing countermeasures against oil pollutions (site-evaluation,	Through the discussion on the Evaluation Workshop held on 25th and 26th June 2007, the C/Ps and the Evaluation Team found that the modification of Outputs in PDM, based on the work plans utilized in REMIP would be necessary for the
	technical and administrative measures) based on the data and information collected and interpreted. (WG2)  Output 7: AQD and GDME&E of EEAA become capable of disseminating the user-friendly environmental	smooth monitoring of the project activities.  Therefore, each output was rephrased to make it more specific to
	information by effectively utilizing the Real-Time Air Monitoring Station with Display. (WG6)	each WG/CC, and key departments that are in charge are specified.
Output 2	Output 3: EQS and EMS of EEAA, and EQDs and EMDs of RBOs become capable of designing and identifying hazardous substances, compiling the data and information, and identifying their risks. (CC1)	It was agreed that the modified Outputs should be used after the Mid-Term Evaluation Study.
Output 3	Output 4: CDCEA (GDT) of EEAA becomes capable of planning, designing, and implementing trainings within EEAA based on the information provided by all other relevant departments/organizations. (WG3)	
	Output 5: EQD and EQM of Alex RBO become capable of Production Process Improvement as well as the Pollution Abatement for industries/factories based on the data and information collected and interpreted. (WG4)	
	Output 8: SRBA of EEAA and concerned RBOs become capable of enhancing their capacities by mutual interaction through CC2 mechanism. (CC2)	
Output 4	Output 6: GDME&E of EEAA and concerned RBOs become capable of raising public awareness to EMUs, enterprises, NGOs, and citizens. (WG5)	

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Following indicators were added and rephrased to reflect the proper state of achievement level.		
Overall	Indicators for Overall Goal	
Goal	OG2 Regulations/decrees which enhance the	OG2, OG3 and OG5
	implementation of countermeasures proposed by the	, , , , , , , , , , , , , , , , , , , ,
	project are stipulated.	In order to properly express the
	OG3 The regulations and guidelines, etc. to support the	state of achievement, indicators of
	implementation of countermeasures suggested by the	OG2, OG3 and OG5 were rephrased.
ļ	project are promulgated and executed by sector ministries concerned.	
	OG5 New activities to improve environment at the	
	community level are started with combined efforts among	
	EEAA/RBOs together with other competent stakeholders.	
Project	Indicators for Project Purpose	PP1 This indicator was added to
Purpose	PP1 Effective countermeasures for environmental	replace the previous indicator which
	pollution, hazardous substances are prepared.	does not appropriately serve to
	DD2 FD4 4 /DD0 - start their new articities often showing	examine the state of achievement.
	PP3 EEAA/RBOs start their new activities after sharing information and implementation of trainings.	PP3 This indicator was rephrased,
	mornation and implementation of trainings.	so that the state of achievement is
		properly expressed.
Outputs	Indicators for Output 1	
	1-1 60% of energy consumption for 9 related target	1-1 ~ 1-6
	governorates are directly captured.	In order to add technical aspects to
	1-2 Emission Inventory Report are prepared at selected	the state of achievement, these six
	cites.	indicators were rephrased and
	1-3 Internal reports are issued based on the analysis of	quantitative targets were added to
	collected data.  1-4 EMA/EEAA MM5/CAMAX model are to be	make it more specific.
	validated and executed in five scenarios (Present,	
	2012, 2017 in BAU and two scenarios in different	
	social and economic development rates for Sox, Nox,	
	and TSP) with the reasonable level of accuracy.	
	1-5 Four activities required for countermeasure	
	preparation are mastered by at least 10 staff representing EEAA, GCRBO, Tanta RBO and	
	Mansura RBO.	
	1-6 Integrated workshop with at least 60 participants is to	
	be conducted before the end of August 2008 in order	
	to share countermeasure proposals for air quality.	
	Indicators for Output 2	
	2-1 Integrated countermeasure plan that is effective for	2-1 and 2-2
	reducing oil pollution risk in Northern Gulf Region and	In order to add technical aspects to the state of achievement, these
	viable for Suez RBO is prepared and approved by EEAA.	indicators were rephrased
	2-2 Database for fingerprint data on crude oil and	-
	derivatives is furnished.	

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Indicators for Output 3	
3-3 Number of staff acquires knowledge and skills to manage the process from identifying possible pollution sources by sampling and analysis of hazardous chemical substances, evaluation of analyzed data, identification of hazardous chemical substances risks, and proposing countermeasures.  3-4 Data of pollutants is compiled as database, and shared the database with EEAA and RBOs.  3-5 Guidelines for hazardous substances management are	3-3, 3-5  These two indicators were added to examine the state of achievement more specifically.  3-4  This indicator was rephrased to examine the state of achievement more specifically.
prepared.	
4-5 At least 6 staff under GDT become capable of managing the procedures of training activities. (to conduct/analyze TNA, plan, implement and evaluate the training course)	4-5 This indicator was added to examine the achievement level of individual capacity.
Indicators for Output 5	
5-1 Manuals/guidelines for inspectors are prepared and published. 5-2 Seminars are held for industries to introduce successful introduction of cleaner production process including any good practices and of other organization(s). 5-3 Number of countermeasure proposals prepared by RBOs is increased. 5-4 Assessed inspection reports for the selected industries show significant improvement in quality. 5-5 A report of good practices and recommendations for the selected industries is prepared and distributed.	5-1 ~ 5-4  The original two indicators included two aspects of achievement, therefore, they were divided.  5-5  This indicator was added to examine the state of achievement more specifically.
	6-2
<ul><li>6-2 The number and details of awareness activities conducted in REMIP are registered in CDCEA.</li><li>6-3 The report of second survey is issued.</li></ul>	This indicator was rephrased to make it more specific. 6-3 This indicator was added to examine the result produced by the newly added activities.
Indicators for Output 7	
7-2 Management plan of contents of display is prepared. 7-3 Real-Time Air Monitoring Station with Display is well-recognized by people in Cairo city serving as "a symbol of environmental watch dog".	7-2 and 7-3  These indicators were added to examine the aspect of achievement produced by awareness raising activities by utilized the Real-Time Air Monitoring Station with Display.
	3-3 Number of staff acquires knowledge and skills to manage the process from identifying possible pollution sources by sampling and analysis of hazardous chemical substances, evaluation of analyzed data, identification of hazardous chemical substances risks, and proposing countermeasures.  3-4 Data of pollutants is compiled as database, and shared the database with EEAA and RBOs.  3-5 Guidelines for hazardous substances management are prepared.  Indicators for Output 4  4-5 At least 6 staff under GDT become capable of managing the procedures of training activities. (to conduct/analyze TNA, plan, implement and evaluate the training course)  Indicators for Output 5  5-1 Manuals/guidelines for inspectors are prepared and published.  5-2 Seminars are held for industries to introduce successful introduction of cleaner production process including any good practices and of other organization(s).  5-3 Number of countermeasure proposals prepared by RBOs is increased.  5-4 Assessed inspection reports for the selected industries show significant improvement in quality.  5-5 A report of good practices and recommendations for the selected industries is prepared and distributed.  Indicators for Output 6  6-2 The number and details of awareness activities conducted in REMIP are registered in CDCEA.  6-3 The report of second survey is issued.  Indicators for Output 7  7-2 Management plan of contents of display is prepared.  7-3 Real-Time Air Monitoring Station with Display is well-recognized by people in Cairo city serving as "a

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	Indicators for Output 8  8-1 Seminar(s) for sharing the experiences and information obtained through REMIP activities are held among RBOs.	8-1 The indicator was rephrased, so that the state of achievement is properly expressed.
	8-2 To ensure that the mechanism for sharing the experiences and information among RBOs are developed, monthly report from all RBOs in includes CC2 activities.	8-2 This indicator was added to ensure the state of achievement.
Important A	ssumptions: Following important assumptions were added	
	From Activities to Outputs  Counterparts remain assigned to carry out the activity	In order to secure the sustainability of technical capacity to achieve the Outputs, C/Ps of the Project should remain in the organization. Therefore, this factor needs to be monitored.
	Appropriate budget (including cost for equipment maintenance) is continuously allocated.	Budget allocation for equipment maintenance is essential by the Egyptian side to achieve the Outputs. Therefore, this factor needs to be monitored.
	From Outputs to Project Purpose  [Progress of other projects assisted by other donor agencies does not negatively affect the project activities]	Other external donors' assistance to EEAA will have potential influence to achieve the project purpose. Therefore this factor needs to be monitored.
	Other depts. of EEAA/RBOs are cooperative to the Project	Other depts. of EEAA/RBOs that are not involved in the project may have potential influence to achieve the project purpose.
	From Project Purpose to Overall Goal  Governorates, local public organizations, enterprises and beneficiaries are cooperative to implement the environmental awareness activities.	In order for EEAA to implement awareness raising activities, it is necessary to secure the cooperation from external stakeholders. Therefore, it is stated as the important assumption to monitor the progress of this factor.
	「Egyptian Policy for environmental sector will not drastically change.」  「Other external organizations and industries do not take negative reaction against implementing countermeasures by EEAA」	In order for EEAA to implement countermeasures, it is necessary to secure the cooperation from other related ministries as well as the support of governmental policy Therefore, it is stated as the important assumption to monitor the progress of these factors.
TELL MEET		Land to the state of the state
Important A	From Project Purpose to Overall Goal  [EEAA continues further application of the technologies transferred through the Project after the project completion.]	This factor is very likely to be materialized. Therefore, it is not necessary to monitor.

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Activities a	are being carried out based on the Work plan. Following	activities were modified to reflect the
Output 1 (WG1)	1-5 To develop the tool of preparing the countermeasures against air pollutions	This activity was restated to reflect the current situation.
	1-6 To implement On-the-Job Training for proposing countermeasure plan against air pollution	This activity was restated to reflect the current situation.
	1-8 To implement On-the-Job Training dealing with fingerprint for pollutants of black smoke.	This activity was deleted because the project did not take the CMB approach.
Output 3 (CC1)	3-8 To establish a database to be used for PCBs/PAHs/heavy metals (Cd, Cr) 3-8-1 To make a data entry for database of PCBs 3-8-2 To make a data entry for database of PAHs 3-8-3 To make a data entry for database of heavy metals(Cd, Cr)	These activities were added to reflect the current situation.
	3-9 To prepare guidelines for hazardous substances management including recommendation to strengthen the institutional system and to identify the risks.	This activity was added to reflect the current situation.
Output 5 (WG4)	5-1 To collect information on industrial pollution abatement technologies including process improvements for compiling as knowledge basis at selected industrial area(s) to use for making factory inspection manuals /guidelines for inspector of RBOs and EEAA, and for holding seminar(s) to introduce and disseminate some successful cases of introductions of pollution abatement technologies for factories. 5-1-2 To collect baseline information of industrial sector of Alexandria, carry out inventory petroleum-related, petrochemical and cement industry and to compile the information into a report. 5-2 To implement OJT dealing with the factory inspections of RBO staffs for reflecting those experiences to prepare a new inspection manual.	These activities were rephrased to reflect the current situation.
Output 6 (WG5)	6-2 To analyze needs of awareness raising activities in consultation with REMIP components and RBOs.  6-3 To design awareness raising activities by using REMIP outcomes in coordination with RBOs, other stakeholders such as media and NGOs.  6-4 To administer and implement awareness raising activities for industries, NGOs, farmers, citizens on the selected topics as indicated in the design sheets. To prepare and compile materials and to distribute to RBOs.  6-5 To implement the second survey for examining impact of 6-4 activities in RBOs.  6-6 To share information through working group with other ministries, institutions, universities, etc. related to public awareness raising.  6-7 To improve the existing awareness plan based on lessons learned up to activities 6-5	These activities were rephrased to reflect the current situation.

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Output 7		
Output 7 (WG6)	7-4 To implement awareness raising activities by utilizing a Real-Time Air Quality Monitoring Station with Display in collaboration with GDME&E. 7-4-1 To review air monitoring data 7-4-2 To design the contents to be displayed including AQI and environmental messages 7-4-3 To conduct the experimental dissemination of AQI and environmental message on the display 7-4-4 To implement the campaign for explaining the air quality parameters 7-4-5 To review the design of the contents based on the findings of experimental dissemination of information 7-4-6 T enter into the daily operation of display 7-4-7 To conduct the survey to measure the level of recognition by the public of Cairo 7-5 To implement the OJT and other trainings through all the activities of 7-1 ~ 7-4.	These activities were added to Output 7 to reflect the current situation of the Output. WG6 is going to manage the awareness raising activities by utilizing a Real-Time Air Quality Monitoring Station with Display.
Output 8 (CC2)	8-3-1-1 To develop the Action Plan 8-3-1-2 To request all WGs/CCs and JICA expert to review the Action Plan 8-3-1-3 To obtain the approval from WGs/CCs. 8-3-1-4 To obtain the funds from WG3 for one year training 8-3-2-1 Materials, textbooks used through OJT by each WG/CC are collected by CC2 8-3-2-2 To send these materials and textbooks to all other RBOs 8-3-2-3 To conduct training according to the plan of specific RBOs.	Two activities were broken down to reflect the current situation of the Output.

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#### 6. CONCLUSION

Despite the delay of the progress of the project activities, most WGs/CCs has been trying to recover these delays and successfully producing outputs. However, the delay in awareness raising activity using the Real-time Air Monitoring Station with Display is likely to negatively affect the full achievement of Project Purpose within the project period. This implies that it might need more time to achieve the intended Project Purpose. The measures to cope with this difficulty including the extension of the project period may be considered.

Regarding the capacity development in three levels (individual/organizational/institutional& social levels), capacity development in the individual level and organizational levels is steadily progressed, thanks to the efforts of concerned WGs/CCs. However, capacity development in institutional and social levels needs to be more enhanced by strengthening the communication with various stakeholders. In order to achieve this, effective utilization of the Real-time Air Monitoring Station with Display is important.

#### 7. RECOMMENDATIONS

<Recommendations for the Project as a whole>

- 1. Securing Running Expenses for the Project
- (1) As shown in the ANNEX9, EEAA has prepared some part of the necessary budget for the implementation of the Project. Despite of the effort of EEAA, not all the budget has been secured yet. Insufficiency of expense for transportation and travel allowances for the seminars/workshops are still big concern and the further effort to secure the budget is required.
- (2) The continuous monitoring for budget allocation using "Demarcation of Items to be Inputted for REMIP Operation from April 2007 to March 2008" is very important for the sustainability of the Project. The update information would be confirmed at the Steering Committees.
- (3) Since the preparatory work for the budget plan for the next Egyptian Fiscal Year will be started very soon, the C/Ps are recommended to prepare the budget plans necessary for project implementation based on the detail activity schedules in consultation with the JICA expert team, in order to maximize the benefits from the Project.
- 2. Monitoring of the project activities
- (1) Since some of project activities have been behind the planned schedule, the acceleration of implementation of project activities is necessary. The PDM and PO were modified according to the actual situation of the Project and working plans used in the Project. C/Ps and the JICA expert team are required to monitor the progress of activities using the modified PDM and PO, including indicators to measure the achievement. The progress would be reported and shared at the Steering Committees.
- (2) EEAA has recognized the importance of initiating some countermeasures by using knowledge and experiences of the Project and already produced some positive impacts on the improvement of environment. Therefore such information should be reported to the Steering Committees and widely disseminated to the public through reports such as "State of Environment" and the display to be installed in

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Tahrir Square as one of the effective PR of the Project.

# 3. Office Space for the JICA Expert Team

Although EEAA provides the office for the JICA Expert Team as undertaking stipulated in the R/D, the office space is observed to be insufficient. It can be said that the office for the JICA Expert Team is not only for the experts' duties but also for the daily meetings/ communication with and instruction to the C/Ps as well as for keeping the Project records and technical materials. Therefore, the more office space is recommended to be allocated in EEAA headquarters for the JICA Expert Team.

#### 4. Appointment of Acting Leader when necessary

Some of key C/Ps of WGs/ CCs are holding two or more posts and/ or leading post(s) concurrently important for navigating the WG/CC activities. In order to accelerate the facilitation of daily activities and decision making related to the WG/CC activities, an Acting Leader is recommended to be assigned when necessary.

5. Capacity Development in three different levels: (1) Individual level, (2) Organizational level, (3) Institutional & Social level

To sustain the outcomes of the Project, capacity development of three different levels is important. The following issues will be considered in the latter period of the Project.

#### (1) Individual level

To monitor the progress of capacity development for all C/Ps involved in the Project is important, so that the leader of each WG/CC and concerned JICA Experts are required to grasp the technical capacity of each C/P in order to follow up the effects of capacity development. The clarification of job description would be considered by EEAA for the establishment of better human resource development plans in future.

# 2) Organization level

Some departments and RBOs have already acquired the advanced technologies. In order to enhance organizational capacity of EEAA as a whole, information exchange among departments and RBOs should be enhanced. For this purpose, the following measures and allocation of the necessary budget by EEAA would be considered.

- Systematic information exchange plan (i.e. utilization of monthly reports submitted to SRBA, and development of an annual plan for information sharing)
- Utilization of ex-participants of the trainings in Japan
   Ex-participants of the trainings in Japan are important resources for the development of EEAA. Their knowledge and experience should be diffused to all EEAA. The report meetings by ex-participants with participation of CDCEA, the report of action plans developed in Japan at the Steering Committees, distribution of the texts and materials would be encouraged.

# 3) Institutional/Social levels

EEAA has an important mission to tackle the environmental problems through cooperation with stakeholders such as EMUs, enterprises, NGOs and citizens.

In this regard, it is recommended to promote involvement of the various stakeholders into the course of the project activities which leads to the capacity development in institutional and social levels in the environmental management sector.

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- <Recommendations for each WG/CC>
- (1) Repair of the tank at the laboratory of GC RBO (WG1, CC1)

Some activities planned to be conducted at the laboratory of GC RBO have been suspended due to the malfunction of the tank. Immediate repair of the tank is requested.

(2) Repair or Replacement of the existing flameless AAS (CC1)

To conduct heavy metal monitoring activities, the existing flameless AAS in CCC should be fixed.

- (3) Auto thermal dissolver (ATD) for Air Auto Sampler (WG4)
- JICA will consider the procurement of the ATD for Air Auto Sampler under the condition that EEAA will identify the necessary items to be prepared for operating the ATD and will take an action to fulfill the items such as consumables, chemicals, and spare parts. The commitment will be informed by the letter to JICA.
- (4) Necessity of the organizational arrangement for public awareness raising activities (WG5 and WG6)
- 1) It took a long time for discussion of work plan of WG5 in the beginning of the project. Thus, some activities have not been implemented as scheduled. Based on this fact, the PO for WG5 was revised based on the discussion with the Project Consultation Mission Team in April 2007 and at the Evaluation Workshop in June 2007. Therefore, WG5 is recommended to put best efforts to implement the revised activities in collaboration with the JICA experts team for realizing the capacity development of WG5 members.
- 2) The EEAA Team put much effort to facilitate the installation of the Air Monitoring Station at the Tahrir Square. Afterward, the full utilization of the display to be attached to the station will be vital for the enhancement of communication with public, and thus the EEAA Team in particular in awareness raising activity is required to be further strengthened.
- (5) Launching the smooth operation of the Real-time Air Monitoring Station with Display and modification of the activity schedule (WG6)

Due to various reasons such as the time consumed for building consensus for specifying the type of the display, the procurement process has so far delayed. Consequently, the schedule of the Project specific to this particular portion may be discussed for extension.

WG6 consists of AQD and Public Awareness Department as shown in ANNEX 5. Due to some engineering complexity in the system configuration, the AQD should bear the overall responsible for the operation and maintenance (O&M) of the station and display as a whole, And the Public Awareness Department will be responsible for the contents managing of environmental messages on the display open to the public.

WG6 are requested to prepare the standard operational procedure and budgetary plan of the station and display as a total system, by considering each mandate of the relevant departments of WG6 for the post Project.

During the Project period, the AQD will play a leading role for initializing the operation of the station and display by more attaching importance on the engineering aspects of the system, followed by the progressive development of environmental messages to be delivered by the Public Awareness Department.

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### 8. LESSONS LEARNED

### (1) Effectiveness to show the good practices by the leading branches

Some RBOs such as Suez RBO and Alexandria RBO have leading roles in dealing with spilled oil issues and improvement of the production process issues and have been working very actively. The challenges of these leading RBOs are recognized as visible good examples from other RBOs. Tanta RBO also shows the remarkable achievement especially in the WG1 activity.

The mechanism to nominate leading branches as pilot organizations works effectively to show the good practices and contributes to the capacity development of the C/P organization as a whole.

### (2) Effectiveness to assign a capable coordinator for the Project

Assistant Project Director of the REMIP has been working for the Project since the formulation stage of the Project and coordinating lots of C/Ps efficiently and effectively. Assistant Project Director has been functioning to facilitate and monitor the project activity with the Project Director.

The support, coordination, and monitoring by the capable coordinator who knows the history and background of projects from the beginning is essential to the success of projects, especially with large number of C/Ps and with frequent changes of key persons and concerned personnel.

### (3) Utilization of the knowledge acquired in the trainings in Japan

As observed in CC1 for example, some C/Ps joined in the trainings in Japan fully utilizes the acquired knowledge to the daily work and development of ideas for future actions. These C/Ps are expected to be a pioneer to lead new perspectives and challenges towards the upper goal.

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Name	Field	Period of Dispatch	(day)	Organization/Company Name
Northiko INOUE	Chief Advisor	25 Nov. 2005 - 09 Mar. 2006	105	Nippon Koei Co. LTD
		13 May, 2006 - 09 Oct. 2006	150	
	-	14 Nov. 2006 - 26 Feb. 2007	105	
		25 May, 2007 - present		
Yoichi IWAI	Training Advisor	25 Nov. 2005 - 09 Dec. 2005	15	Nippon Koei Co. LTD
		28 May. 2006 - 11 Jul. 2006	45	:
		16 Sep. 2006 - 06 Oct. 2006	21	
		14 Nov. 2006 - 04 Dec. 2006		
		01 Jun. 2007 - 30 Jun. 2007	30%	
Akira YIIK AWA	Local Environmental Management (Air Ouality)	15 Jan. 2006 - 28 Feb. 2006	45	Nippon Koei Co. LTD
		22 May, 2006 - 20 Jul. 2006	9	(Coonerating Staff)
		01 Sep 2006 - 09 Oct 2006	90	(
		30 Jan 2007 - 06 Mar 2007	35	
		18 May 2007 - present	? '	
Tadashi SHOII	Local Environmental Management (Water Ouality)	25 Nov. 2005 - 07 Feb. 2006	7.5	Nippon Koei Co. LTD
		13 May, 2006 - 02 Jul. 2006	51	(Cooperating Staff)
		11 Dec. 2006 - 26 Feb. 2007	78	
		11 May, 2007 - present	1	
Voliahi TAVADASHI	Sugreended Particle Matters and Countermeasures	16 Jul 2006 - 01 Aug 2006	1.7	Ninnon Koei Co. J.TD
TRECTIONAL HORSE	company to the contract of the	1 07 Avg 2006 - 09 Oct 2006	- 64	
		14 Nov 2006 - 28 Dec 2006	45	
		16 Mar. 2007 - 30 Mar. 2007	2 2	
		11 May 2007 - present		
Molecus BIVITATIO	Analysis of Spilled Oil and Counternessures	24 Jun. 2006 - 14 Jul. 2006	21	Nippon Koei Co. LTD
		25 Aug. 2006 - 14 Sep. 2006	21	(Cooperating Staff)
Venno NAGANIMA	Hazardous Substance Analysis and Management	23 Dec. 2005 - 21 Jan. 2006	30	Nippon Roei Co. LTD
WIND HADDING OFFICE		03 hm 2006 - 05 Ang 2006	- 64	
		16 Dec. 2006 - 29 Jan. 2007	45	
		25 May 2007 - 14 Jun 2007	21.	
Tooking V ANEVO		03 Jun. 2006 - 02 Jul. 2006	30	Nippon Koei Co. LTD
Kengo NAGANI MA	Production Process Improvement (Industrial Pollution Abatement)	05 Feb. 2007 - 06 Mar. 2007	30	
Toyosalos KATO	Bourpment Management/ Equipment Procurement	02 Jan. 2006 - 31 Jan. 2006	30	Nippon Koei Co. LTD
		22 May, 2006 - 20 Jun. 2006	30	(Cooperating Staff)
		28 Nov. 2006 - 27 Dec. 2006	30	
		19 May. 2007 - 17 Jun. 2007	30	
Kaznyuki SATO	Public Awareness Raising and Public Relations	22 Jul. 2006 - 03 Aug. 2006	13	Nippon Koei Co. LTD
Tomos AOKI		15 Dec. 2006 - 29 Dec. 2006	15	
DANCE COLLOS		07 Feb. 2007 - 26 Feb. 2007	20	
Nappi NAKAGAWA	Analysis of Smoke Pollution Source	01 Dec. 2006 - 15 Dec. 2006	15	Nippon Koei Co. LTD
Tages 141 test for 1111				(Cooperating Staff)
Hiroshi YOSHIKADO	Dispersion Model Approach	25 May. 2007 - 08 Jun. 2007	1.5	Nippon Koei Co. LTD
				(Cooperating Staff)
Tomoko OTA	Public Awareness Raising and Public Relations (2)/ Administrative Sharing	25 Nov. 2005 - 09 Mar. 2006	105	Nippon Koei Co. LTD
	Mechanism Development Coordinator	22 May, 2006 - 09 Oct. 2006	141	(Cooperating Start)
		17 Mars 2005 At 1822 AVID	- 1.5	

Dispatch records of Project Consultation Mission (as of the End of June, 2007)

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ANNEX 1	(day) Organization/Company Name	21 JICA	21 JICA	8 JICA
	Period of Dispatch	29 Mar. 2006 - 18 Apr. 2006	09 Mar. 2007 - 29 Mar. 2007	20 Apr. 2076 - 27 Apr. 2007
	Field	Equipment Procurement and Inspection	Equipment Procurement and Inspection	Leader Environmental Policy Air Quality Management Cooperation Planning REMIP Chief Advisor
	Name	Toyosaku KATO	Toyosaku KATO	Kiyoshi MASUMOTO Rentaro INOUE Hiromi CHIHARA Eriko TAMURA Norihiko INOUE

Records of Home Assignment of Japanese Experts in Japan (as of the End of June, 2007)

Name	Field	Period of Dispatch	(day)	Organization/Company Name
Norihiko INOUE	Chief Advisor	15 Nov. 2005 - 24 Nov. 2005	10	Nippon Kaei Co. LTD
		10 Mar. 2006 - 12 Mar. 2006	m 	
		01 May. 2006 - 10 May. 2006	10	
		07 May. 2007 - 10 May. 2007	4	
Akira YUKAWA	Local Environmental Management (Air Quality)	18 Nov. 2005 - 24 Nov. 2005	7	Nippon Koei Co. LTD
		10 Mar. 2006 - 12 Mar. 2006	E	(Cooperating Staff)
		01 May. 2006 - 06 May. 2006	9	
Tadashi SHOII	Local Environmental Management (Water Quality)	18 Nov. 2005 - 24 Nov. 2005	7	Nippon Koei Co. LTD
		10 Mar. 2006 - 12 Mar. 2006	3	(Cooperating Staff)

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Record of Counterpart Training in Japan

Name of Trainee	Field	Period of Training	Contents and Places	Occupation during Training
Kawser Hefny Korany Abou El Seoud (Ms)	Environmental Management	2007/01/20~2007/02/04	Enviromental policy, management, and legal system	General Director of Cairo Central Center, EEAA
Elham Rafaat Abdel Aziz Sayed Ahmed (Ms)	Environmental Management	2007/01/20~2007/02/04	in Japan, Tokyo Metropolitan, Local Authorities, ICETT, etc.	Director of Hazardous Substance Department, BEAA
Asmaa Sayed Hanouda (Ms)	Hazardous Chemical Management	2007/01/20~2007/02/18	Hazardous substance control	Environmental Reseacher, Inspection Department, EEAA
Mohamed Galal Bldin Mohame Ali Mahmoud (Mr)	Hazardous Chemical Management	2007/01/20~2007/02/18		Researcher of Water Pollution Environment, Greater Cairo RBO
Essam Edin Eldway Ibrahim Saleh (Mr)	Hazardous Chemical Management	2007/01/20~2007/02/18	etc.	Lab Chemist/ Environmental Researcher, Cairo Central Center, EEAA
El Shalakamy Mohamed Amr Ahmed Air Pollution Problem and Existing (Mr) Air Quality Management	Air Pollution Problem and Existing Air Quality Management	2007/01/20~2007/02/18		Environmental Reseacher, Industrial Unit, EEAA
Abou El Ela Mostafa Mohamed Mourad (Mr)	Air Pollution Problem and Existing Air Quality Management	2007/01/20~2007/02/18	management, Measurement of air pollutants, Tokyo Metropolitan, Local	Division Chief, Air Quality Department, EEAA
Abdel Hadi Omar Fathi (Mr).	Air Pollution Problem and Existing Air Quality Management	2007/01/20~2007/02/18	Authorities, ICETT, etc.	Researcher of Air Pollution Environment, Cairo Central Center, EEAA

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List of equipment provided under the Project

Internet of Sox, Nox, etc)   2005   1 set   CCC     Ily by passive sampling method   2005   2 set   CCC     Internet of Sox, Nox, etc)   2005   2 set   CCC     Internet of Sox, Nox, etc)   2005 sided   each 1 set   CCC     Internet of Suzz canal by Finger print method   2005 sided   1 set   CCC     Suzz-RBO   2005 sided   1 set   CCC     Suzz-RBO   2005 sided   1 set   Suzz-RBO     Suzz-RBO   2005   1 set   Suzz-RBO     Suzz-RBO   2005   1 set   Suzz-RBO     Suzz-RBO   2005 sided   1 set   CCC     Suzz-RBO   2005 sided   1 set   CCC     Suzz-RBO   2005 sided   1 set   CCC     Suzz-RBO   2005 sided   2005 sided   2 set   CCC     Suzz-RBO   2005 sided   2 se	Field	Equipment Name	JFY Granted	Quantity	Allocation	Setup Date	Working Situation as of Mid of June '07
2005   1 set   CCC     2005 added   1 set   Suez-RBO     2005 added   1 set   Suez-RBO     2005 added   1 set   Suez-RBO     2005 added   2 set   Suez-RBO     2005 added   2 set   Suez-RBO     2005 added   2 set   Suez-RBO     2006 added   2 set   Suez-RBO     2006 added   2 set   Suez-RBO     2006 added   2 set   CCC     2005   1 set   CCC     2006 added   1 set   CCC     2006   1 set   Alex-RBO     2007   1 set   CCC     2008   1 set   CCC     2009   1 set   CCC     2006   1 set   CCC     2006   1 set   CCC     2007   1 set   CCC     2008   1 set   CCC     2009   1 set   CCC     2006   1 set   CCC     2006   1 set   CCC     2006   1 set   CCC     2006   1 set   Alex-RBO     2007   2008   1 set   CCC     2008   1 set   CCC     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009     2009   2009	To analyze	efficiency for the Air monitoring (Measurment of Sox, Nox, etc)					
2005         2 sets         GC-RBO           2005         added         aach 1 set         CCC           2005         added         1 set         CCC           2005         added         1 set         Tahriit Square           2005         1 set         Tahriit Square           2005         1 set         Suez-RBO           2005         2 set         Suez-RBO           2005         1 set         Suez-RBO           2006         added*2         1 set         CCC           2006         2 dded*2         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2006         1 set         CCC           2005         1 set         CCC           2005         1 set         CC		Measurement of air quolity by passive sampling method	2005	1 set	202	04/2006	Working
2005 added         1 set         CCC           2005 added         1 set         Tahriti Square           2005 added         1 set         Tahriti Square           2005         1 set         Suez-RBO           2005         2005         1 set         Suez-RBO           2005         2005         1 set         Suez-RBO           2006         2006         1 set         Suez-RBO           2006         2006         1 set         Suez-RBO           2006         1 set         Suez-RBO           2006         1 set         CCC           2005         1 set         CCC           2005         1 set         EEAA           2006         1 set         CCC           2006         1 set         CCC     <		UV-VIS Spectrohptometer	2005	2 sets	GC-RB0	04/2006	Working
2005 added         1 set         CCC           2006         1 set         Tahriit Square           2005         1 set         CCC           2005         1 set         Suez-RBO           2005         2005         1 set         Suez-RBO           2005         2005         1 set         Suez-RBO           2006         2006         3 set         Suez-RBO           2006         2006         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         EEAA           2006         1 set         CCC           2006 <td></td> <td>Ion Chromatography Analzer</td> <td>2005</td> <td>1 set</td> <td>222</td> <td>04/2006</td> <td>Working</td>		Ion Chromatography Analzer	2005	1 set	222	04/2006	Working
2005 added         1 set         Tahriit Square           2006         1 set         Tahriit Square           2005         1 set         Suez-RBO           2005 added*         1 set         Suez-RBO           2006 added*         1 set         Suez-RBO           2006 added*         1 set         Suez-RBO           2006 added*         1 set         CCC           2006 added*         1 set         CCC           2006 added*         1 set         CCC           2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         CCC           2005         1 set         CCC           2006         2006         1 set         CCC           2006         2006         1 set         CCC           2006         2006         1 set         CCC           2006         1 set         CCC		GPS and lap top computer	2005 added	each Iset	၁၁၁	04/2006	Working
2006         1 set         Tahriit Square           2005         1 set         Suez-RBO           2005         2 sded         1 set         Suez-RBO           2005         2 sded         1 set         Suez-RBO           2006         2 sded         1 set         CCC           2006         2 sded         1 set         CCC           2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         CCC           2005         1 set         CCC           2006         1 set         CCC		PM10 Cyclone for in-stack cascade sampler	2005 added	I set	သသ	05/2006	Working
2005         1 set         Suez-RBO           2005         added 1 set         Suez-RBO           2005         added 2 set         Suez-RBO           2006         added 3 set         Suez-RBO           2006         added 4 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2006         1 set         C		Air Quality Monitoring Station	2006	1 set	Tahriit Square		Under Construction
2005   1 set   Suez-RBO     2005 added   1 set   Suez-RBO     2006 added*2   1 set   CCC     2006 added*2   1 set   CCC     2005   1 set   CCC     2006   1 set   CCC     2007   1 set   CCC     2006   1 set   CCC     2006   1 set   CCC     2007   1 set   CCC     2006   1 set   CCC     2006   1 set   CCC     2006   1 set   CCC     2006   1 set   CCC     2007   CCC     2007   CCC     2008   1 set   CCC     2008   1 set   CCC     2009   1 set   CCC     2006   1 set   CCC     2007   CCC     2008   1 set   CCC     2009   CCC	To analyze	and measure the spilled oil in the Suez canal by Finger print method					
2005   1 set   Suez-RBO     2005   1 set   Suez-RBO     2005   1 set   Suez-RBO     2005   1 set   Suez-RBO     2005 added   1 set   Suez-RBO     2006 added   1 set   CCC     2006 added   1 set   CCC     2005   1 set   CCC     2005   1 set   CCC     2005   1 set   EEAA     2005   1 set   EEAA     2005   1 set   CCC     2006   1 set   CCC     2007   1 set   CCC     2008   1 set   CCC     2009   1 set   CCC     2006   2006   1 set   CCC     2007   2007   1 set   CCC     2008   2008   2008   2008     2008   2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008   2008     2008		Phorescence Spectrophtometer	2005	1 set	Suez-RBO	04/2006	Working
2005   1 set   Suez-RBO     2005   1 set   Suez-RBO     2005   1 set   Suez-RBO     2005   1 set   Suez-RBO     2005 added   1 set   Suez-RBO     2006 added*2   1 set   Suez-RBO     2006 added*2   1 set   Suez-RBO     2006 added*2   1 set   Suez-RBO     2006 added*3   1 set   CCC     2006 added*3   1 set   CCC     2005   1 set   CCC     2005   1 set   CCC     2005   1 set   EEAA     2005   1 set   EEAA     2005   1 set   CCC     2006   1 set   CCC     2007   CCC     2008   1 set   CCC     2009   CCC		FTIR (Infrared Spectrophotometer)	2005	1 set	Suez-RBO	04/2006	Working
2005   1 set   Sinez-RBO     2005   1 set   Sinez-RBO     2005 added   1 set   Sinez-RBO     2005 added   1 set   Sinez-RBO     2006 added*2   1 set   CCC     2005   1 set   CCC     2005   1 set   CCC     2005   1 set   EEAA     2005   1 set   EEAA     2005   1 set   CCC     2006   1 set   CCC     2007   CCC     2008   CCC     2009	*	Density meter	2005	1 set	Suez-RBO	04/2006	to be used from 07/07
2005   1 set   Suez-RBO     2005 added   1 set   Suez-RBO     2005 added   1 set   Suez-RBO     2005 added   1 set   Suez-RBO     2006 added*2   1 set   Suez-RBO     2006 added*2   1 set   Suez-RBO     2006 added*2   1 set   CCC     2005   1 set   CCC     2005   1 set   CCC     2005   1 set   EEAA     2005   1 set   EEAA     2005   1 set   EEAA     2005   1 set   CCC     2005   1 set   CCC     2005   1 set   CCC     2005   1 set   CCC     2006   1 set   CCC     2007   CCC     2008   1 set   CCC     2009   CCC     2009   1 set   CCC     2009    *	Refractometer	2005	l set	Suez-RBO	04/2006	to be used from 07/07	
2005 added   1 set   Suez-RBO		Viscometer	2005	1 set	Suez-RBO	02/2006	to be used from 07/07
2005 added         1 set         Suez-RBO           2005 added         1 set         Suez-RBO           2006 added*2         1 set         Suez-RBO           2006 added*2         1 set         Suez-RBO           2006 added*2         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         EEAA           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2006		Water bath for Viscometer	2005	1 set	Suez-RBO	05/2006	to be used from 07/07
2005 added*2         1 set         Suez-RBO           2006 added*2         1 set         Suez-RBO           2006 added*2         1 set         Suez-RBO           2006 added*2         1 set         CCC           2005         1 set         EEAA           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2006         1 set         CCC           2006 <t< td=""><td></td><td>Solvent, reagent, standards and fused silica column</td><td>2005 added</td><td>1 set</td><td>Suez-RBO</td><td>05/2006</td><td>Working</td></t<>		Solvent, reagent, standards and fused silica column	2005 added	1 set	Suez-RBO	05/2006	Working
2006 added*2         1 set         Suez-RBO           2006 added*2         1 set         Suez-RBO           2006 added*2         1 set         CCC           2005         1 set         EEAA           2005         1 set         ECC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2006         1 set         Alex-RBO		Soxhlet Apparatus Heating Mantle	2005 added	l set	Suez-RBO	05/2006	Working
2006 added*2         1 set         Suez-RBO           2006 added*2         1 set         Suez-RBO           2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         EEAA           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO		Attachment for FTIR	2006 added*2	1 set	Suez-RBO	05/2007	to be used from 07/07
2006 added*2         1 set         CCC           2005         1 set         EEAA           2005         1 set         EEAA           2005         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO		Attachment for the Existing Gas Chromatography	2006 added*2	1 set	Suez-RBO	05/2007	to be used from 07/07
2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO		Standard Reagent to analyze for the spilled oil	2006 added*2	) set	Suez-RBO	05/2007	to be used from 07/07
2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         EEAA           2005         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO	POPe monit	oring in Bount certified by Stockholm convention					
2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         EEAA           2005         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO	1013116	Multifunctional Fluorecence Dector for HPLC	2005	1 set	CCC	04/2006	to be used from 08/07
2005         1 set         CCC           2005         1 set         CCC           2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         EEAA           2005         each 1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO		Standards solution of PCBs , PAH and Hydrocarbons	2005	1 set	CCC	03/2006	Working
2005         1 set         CCC           2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         EEAA           2005         each 1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO	*	Clean-up equipment and reagents	2005	1 set	200	05/2006	to be used from 08/07
2005         1 set         CCC           2005         1 set         EEAA           2005         1 set         EEAA           2005         each 1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO		A.A.S. Attachment Hydrogenation-Reductive vapourization	2005	l set	222	04/2006	to be used from 08/07
2005         1 set         EEAA           2005         1 set         EEAA           2005         each 1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO		Містомаче Очеп	2005	1 set	CCC	04/2006	to be used from 08/07
2005         1 set         EEAA           2005         each 1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO           2005         1 set         Alex-RBO		Equipment for water analysis	2005	1 set	EEAA	04/2006	to be used from 08/07
2005         each 1set         EEAA           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO		DO meter	2005	1 set	EEAA	04/2006	to be used from 08/07
2006         1 set         CCC           2006         1 set         CCC           2006         1 set         CCC           2006         1 set         Alex-RBO           2005         1 set         Alex-RBO		GPS, Lap-top Computer and LCD Projector	2005	each 1set	EEAA	02/2006	Working
2006         1 set         CCC           2006         1 set         CCC           2005         1 set         Alex-RBO           2005         1 set         Alex-RBO		Gas Chromatography ECD system	2006	1 set	CCC	03/2007	Working
2006   1 set   CCC   2005   1 set   Alex-RBO   2005		Attachment for the Existing Gas Chromatography for PAH	2006	1 set	CCC	03/2007	Working
2005   set Alex-RBO 2005   set Alex-RBO		Software for control and solution for the Existing GS-MS	2006	1 set	222	03/2007	Working
2005 1 set Alex-RBO 2005 1 set Alex-RBO	To contribut	te the process improvement of industries for the region of the Alexandria					
2005 1 set Alex-RBO		Auto Sampler for air	2005	1 set	Alex-RBO	04/2006	to be working from 08/07
		Auto Sampler for water	2005	1 set	Alex-RBO	05/2006	to be working from 08/07
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\*. Procurement was done by combining as a LOT. Amount of this LOT was 270,170 LE

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List of equipment accompanied with the JICA Expert Team under the Project

Equipment Name	JFY Granted	Quantity	Site installed	Setup Date	Working Situation as of Mid of June '07
Copy Machine	2005	1 set	REMIP office	02/2006	Working
Computer (Desktop Type)	2005	1 set	REMIP office	02/2006	Working
Computer (Note Type)	2005	l set	REMIP office	02/2006	Working
Printer	2005	1 set	REMIP office	905/20	Working
Color Printer	2005	l set	REMIP office	02/2006	Working
Scanner	2005	1 set	REMIP office	02/2006	Working
Office LAN System	2005	l set	REMIP office	02/2006	Working
Projecter	2005	l set	REMIP office	02/2006	Working
Video Camera	2005	l set	REMIP office	02/2006	Working
Fax Machine	2005	1 set	REMIP office	02/2006	Working
PCB Standard Materials	2006	1 set	CCC	08/2006	Working
Flue Gas Calculation Soft	2006	í set	CCC	05/2006	Working
Devices for Flue Gas Measurement	2006	1 set	CCC	11/2006	Working
Standards for PAH and Heavy Metal	2006	1 set	CCC	02/2007	to be used from 08/07
Oil Weathering Test Unit	2006	1 set	Suez-RBO	06/2006	Working
Ckemicals for Passive Sampling and Measurement	2006	1 set	CCC, RBOs	07/2006	Working
HP Software	2006	1 set	REMIP office	01/2007	Working
Total					

\*1: Actual procurement was done by the Expert Team in Egypt by Egyptian currency.

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## LIST OF COUNTERPARTS FOR REGIONAL ENVIRONMENTAL MANAGEMENT IMPROVEMENT PROJECT (AS OF 1ST JULY 2007)

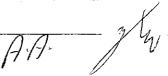
Project Administrative Management Counterpart

Name	Role in the Project	Position
Mawaheb Abou El Azm	Chairperson of Joint Steering Committee	Chief Executive Officer
Ahmed Abou Elseoud Ahmed	Project Director	Undersecretary, Central Department of Air and Noise, EQS
Fatma Mohamed Abou El Shouk	Project Manager	Head of Environmental Management Sector (EMS)
Yehia Abdalkader Abdallah	Project Manager	Head of Central Department of Communication and Environmental Awareness (CDCEA)
Ali Abu Sedira	Project Manager	Head of Sector of Regional Branch Affairs (SRBA)
Heba M. Hassanein	Assistant Project Director	International Relation Officer, Department of International Relation and Technical Cooperation

**Technical Counterpart** 

Output 1 (WG1): Regional Air Pollution Control Management System Improvement

Name	Position	Remark	
Kawser Hefny	Deputy Manager of AQD and Chief of CCC, EQS	Leader of WG1	*
Moustafa Mohamed Mourad	Section Chief, Air Quality Department, EQS	Sub-Leader of WG1	*
Mohamed Hagag	Specialist, Air Quality Department, EQS		*
Wael Abd Hamid	Air Quality Department, EQS		*
Hany Mohamed Nabil	Air Quality Department, EQS		*
Ashraf Saleh Ibrahim	Air Quality Department, EQS	<u> </u>	*
Usama Ahmed Faramawy	Air Quality Department, EQS	· · · · · · · · · · · · · · · · · · ·	*
Mahamoud Abd ElRahim Ahmed	Air Quality Department, EQS		*
Metwally Abd El Baki	Air Quality Department, EQS	(in UEA now)	*
Mohammad Ezziddin Sayour	Chief of Air Quality Section of CCC, EQS		*
Omar Fathi Abd El Hadi	Air Quality Section of CCC, EQS		*
Mohammed Mohammed Nourddin	Air Quality Section of CCC, EQS		*
Mahmoud Said Rwash	Air Quality Section of CCC, EQS		*
Mohamed Gamal Zenhom	Air Quality Section of CCC, EQS		*
Samy Ashraf	Air Quality Section of CCC, EQS		*
Mohamed Yassin	Air Quality Section of CCC, EQS		*
Mohamed Sallam Bayoumi	Air Quality Section of CCC, EQS		*
Mohammed Mossad	Director of Laboratory, EQD, GC RBO		*
Mohamed Hamdy	Air Laboratory, EQD, GC RBO		*
Hussein Moawad	Director of EMD, GC RBO	1	*
Mostafa Zayed	Director of Laboratory, Tanta RBO		*
Amir Fawzy Kharoub	Chief of Air Section of Laboratory, Tanta RBO		*
Mohammad Gamal Eldein Hassanien	Air Section of Laboratory, Tanta RBO		*
Osama El-Bastawese Harhash	Air Section of Laboratory, Tanta RBO		*
Mohamed Ismail Elsaidy	Air Section of Laboratory, Tanta RBO		*
Emad Fares	Air Section of Laboratory, Tanta RBO		*
Wail Shapan Ali	Air Section of Laboratory, Tanta RBO		*
Amir Abdel Rahman	Water Section of Laboratory, Tanta RBO	in charge of IC analysis	*
Ashraf Abou El Fotouh Mahmoud	Senior Inspector,, EMD, Tanta RBO		*
Maged Mohamed El-Sayed	Chief of Air Section of Laboratory, Mansoura RBO		*
Hatem Ibrahim Mohamed El-Nady	Air Section of Laboratory, Mansoura RBO		*



Walid Abdel Karim Ragab Ali	Air Section of Laboratory, Mansoura RBO		*
Amin Mohamed Arafa	Air Section of Laboratory, Mansoura RBO		*
Magdy Mohamed El-Hossry	Air Section of Laboratory, Mansoura RBO		*
Ahmed El-Said Rady	Air Section of Laboratory, Mansoura RBO		*
Abeer Agha El-Desoky	Air Section of Laboratory, Mansoura RBO		*
Mamdouh Ahmed El-Naggar	Air Section of Laboratory, Mansoura RBO		*
Abou Bakrr	Director of EMD, Mansoura RBO		*
Heba Ibrahim	Industrial Unit, EMS	Participatory base	
Hussein Gouda	Industrial Unit, EMS	Participatory base	
Mohamed Amir Ahmed	Environment Researcher, Industrial Unit, EMS	Participatory base	
Ahlam Farouk Ammar	Manager of Inspection Department, EMS	Participatory base	
Basem Abdel	Inspection Department, EMS	Participatory base	
Hossam El Shakhs	Programmer, Data Management Department	.Participatory base	
Asmaa Hamouda	Manager of Hazardous Substances Department, EMS	Participatory base	

<sup>\*:</sup> Primary counterpart targeted for technical transfer and capacity development through training, OJT and joint work

Output 2 (WG2): Oil Pollution Program

Name	Position	Remark	
Ali Abu Sedira	Head of SRBA	Supervisor	
Laila El-Khouhi	General Director of Suez RBO	Leader of WG2	*
Ghareeb Morsy	Director of EMD, Suez RBO	Sub-Leader of WG2	*
Mohamed Alasmar	Director of EQD, Sucz RBO	Sub-Leader of WG2	*
Gamal Radwan	Manager of Planning & Management Dept, Suez RBO		*
Mohamed Ismail	Environmental Disaster Unit, EEAA		*
Ahmed Kasem Sheta	Central Operation Room, EMS, EEAA		*
Kossay Mahmoud	Central Operation Room, EMS, EEAA		*
Ehab Hussein	EMD, Suez RBO		*
Ahmed Hassan	EMD, Suez RBO		*
Ahmed Abbas	EMD, Suez RBO		*
Hoda Mostafa Ibrahim	Deputy Director of Alexandria RBO	Participatory base	
Sand Zamal	EQD, Alexandria RBO	Participatory base	
George Mousa	EQD, Alexandria RBO	Participatory base	
Bakhiet Metawi	EQD, Red Sca RBO	Participatory base	
Kawser Hefny	Deputy Manager of AQD and Chief of CCC, EQS	Participatory base	
Hanaa El-Sheltawy	CCC, EQS	Participatory base	
Abdallah El-Lithy	CCC, EQS	Participatory base	
Sameh Hamza	CCC, EQS	Participatory base	
Gehan Elasakka	EQS	Participatory base	

<sup>\*:</sup> Primary counterpart targeted for technical transfer and capacity development through training, OIT and joint work

Output 3 (CC1): Sound Management of Hazardous Chemical Substances

Name	Position	Remark	,
Fatma Mohamed Abou El Shouk	Head of Environmental Management Sector (EMS)	Supervisor	
Atwa Hussein Atwa	General Director, Greater Cairo RBO	Supervisor	
Eng. Adel El Shafi	Manager, General Department of Hazardous Substance and Hazardous Waste Management, EEAA	Supervisor	
Elham Refaat Abed El Aziz	Manager, Hazardous Substance Management Department (HSMD)	Leader of CC1	*
Mohamed Esmail	Manager, Hazardous Waste Management Department		*
Kawser Hefni	Chief of Cairo Central Center		*
Assma Said	Expert of HSMD		*
Engy Sehata	Expert of HSMD		*
Medhat Yosef	Expert of HSMD	·	*
Yaser Bader	Expert of HSMD		*
Mohamed Lotfy Kamel Abu Zeed	General Department for Environmental Development		*
Hanaa Mohmoud El Sheltawi	Chief of Water Quality Section of CCC		*

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Essam Eldin Eldawy Ibrahim Saleh	Technical Expert of CCC		*
Mahmoud Nour El-Din	Technical Expert of CCC		*
Mohammed Yassin	Technical Expert of CCC		*
Ahmed Abo El-Seoud	Technical Expert of CCC		*
Abdallah El-Lithy	Technical Expert of CCC		*
Sameh Mohammed Hamza	Technical Expert of CCC		*
Ahmed Rafaat	Technical Expert of CCC		*
Eman Shahen	Technical Expert of CCC		*
Yassir Risk	Technical Expert of CCC		*
Mohamed Mosaad	Director, Laboratory of GC RBO		*
Mohamed Galal	Water Quality Laboratory Expert of GC RBO		*
Ahlam Farouk Ammar	Manager, General Dept. of Env. Inspection of EEAA	Participatory base	
Amaal Taha Sayed	Director of Students Education & Awareness, CDCEA	Participatory base	
Ahmed Mostafa	Manager, GIS Section in Information Department of EEAA	Participatory base	
Mohamed Farouk Amen Abdel Rahman	Environmental Development Department	Participatory base	
Hussen Gouela	Industrial Unit of EEAA	Participatory base	

<sup>\*:</sup> Primary counterpart targeted for technical transfer and capacity development through training, OJT and joint work

Output 4 (WG3): Training Capability Enhancement Program

Name	Position	Remark	
Yehia Abdalkader Abdallah	Head of CDCEA	Supervisor	
Hoda Abbas El-Shayeb	General Director of GDTD, CDCEA	Leader of WG3	*
Hussein Emmam	Chief Training Expert of, GDTD, CDCEA	Sub- Leader of WG3	. *
Laila Abd El Azim Kandil	Training specialist, GDTD, CDCEA	Sub- Leader of WG3	*
Salah M. Ahmed	Director of Training Department, CDCEA		*
Rasha Khaled	Training specialist, GDTD, CDCEA		*
Alaa Mourad	Training specialist, GDTD, CDCEA		*
Doaa Mohamed	Training specialist, GDTD, CDCEA	Participatory base	
Ahmed El Shater	Training specialist, Training Department GDTD, CDCEA	Participatory base	
Ahmed Abdel Khalek	Training specialist, Training Department GDTD, CDCEA	Participatory base	
Mohamed Abd El Hamid	Training specialist, Training Department GDTD, CDCEA	Participatory base	
Wafaa Hassan	Training specialist, Training Department GDTD, CDCEA	Participatory base	
Abdelalem Ahmed	Training specialist, Training Department GDTD, CDCEA	Participatory base	

<sup>\*:</sup> Primary counterpart targeted for technical transfer and capacity development through training, OJT and joint work

Output 5 (WG4): Improvement Guidance of Production Process

Name	Position	Remark	
Ali Abu Sedira	Head of SRBA	Supervisor	
Mona Gamal El Dein	General Director of Alexandria RBO	Leading RBO	
Hoda Mostafa Ibrahim	Deputy Director of Alexandria RBO	Leader of WG4	*
Lamyaa Mostafa	Chief of Water Quality Section of Alex RBO Laboratory		*
Ghada Abdel-Moneim	Chief of Environmental Development Dep. in Alex RBO		*
Gihan Ramadan	Expert of Air Quality Laboratory of Alex RBO		*
Saad Zamel	Expert of Water Quality Laboratory of Alex RBO		*
Ihab Sharkawy	Chief of EQD of Alex RBO		*
George Zarif Mousa	Expert of Water Quality Laboratory of Alex RBO	Participatory base	
Emad ElGamal	Law researcher of Alex RBO	Participatory base	
Mohammed Hair	Law supervisor of Alex RBO	Participatory base	
Mohamed Gamal	Expert of Env. Development Dep. of Alex RBO	Participatory base	
Heba Ibrahim	Industrial Unit, EMS	Participatory base	
Wafaa Allam	Public Awareness & Information Dep of Alex RBO	Participatory base	

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\*: Primary counterpart targeted for technical transfer and capacity development through training, OJT and joint work

Output 6 (WG5): Promotion of Public Awareness Raising Activities

Name	Position	Remark	
Yehia Abdalkader Abdallah	Head of CDCEA	Supervisor	
Fouad Megaheed	General Director of GDME&E, CDCEA	Leader of WG5	*
Mostafa Kamel	Director of GDME&E, CDCEA	In charge of supporting RBOs	*
Abd El Rahim Mahmoud	GDME&E, CDCEA	In charge of supporting RBOs	*
Amaal Taha Sayed	Director of Students Education & Awareness, CDCEA	In charge of supporting CC1	*
Mamdouh Koeib	GDME&E, CDCEA	In charge of supporting CC1	*
Hind Gharib	GDME&E, CDCEA	Coordinator of WG5	*
Mohamed Ahmed Hussein	Director of Media Dept, Tanta RBO		*
Mohamed F. El-Shorbani	Mass media coordinator, Assuit RBO		*
Essa Shady	GC RBO		*
(to be named)	Alexandria RBO		*
(to be named)	Suez RBO		*

<sup>\*:</sup> Primary counterpart targeted for technical transfer and capacity development through training, OJT and joint work

Output 7 (WG6): Public Awareness Raising Activities Using Air Monitoring Station w/ Display

Name	Position	Remark	
Ahmed Abou Elseoud Ahmed	Undersecretary, Central Department of Air and Noise, EQS	Leader of WG6	*
Fouad Magahed	General Director, Public Awareness Department, CDCEA		*
Hany Mohamed Nabil	Air Quality Department, EQS		*
Asraf Saleh	Air Quality Department, EQS		*
Abd El Rahim Mahmoud	Awareness Specialist, Public Awareness Department, CDCEA		*
Moustafa Kamal	Public Awareness Department, CDCEA	Participatory base	
Amaal Taha Sayed	Director of Students Education & Awareness, CDCEA	Participatory base	

<sup>\*:</sup> Primary counterpart targeted for technical transfer and capacity development through training, OJT and joint work

Output 8 (CC2): Sharing of Information on REMIP among RBOs

Name	Position	Remark	
Ali Abu Sedira	Head of SRBA	Chairman	L
Sayed Mostafa	SRBA	Deputy Chairman	*
Fatma El Zahraa	SRBA	Deputy Chairman	*
Atwa Hussein Atwa	General Director of GC RBO	Leading RBO	
Sheweker Mostafa	General Director of Tanta RBO	Leading RBO	
Mostafa Zayed	Director of Laboratory, Tanta RBO	Leading RBO	
Mona Gamal El Dein	General Director of Alexandria RBO	Leading RBO	
Hoda Mostafa Ibrahim	Deputy Director of Alexandria RBO	Leading RBO	
Laila El-Khouhi	General Director of Suez RBO	Leading RBO	ļ
Mohamed Alasmar	Director of EQD, Suez RBO	Leading RBO	
Nader Shehata	General Director of Assuit RBO		
El Sayed Madyan	General Director of Red Sea RBO		<u> </u>
Mohamed Gad El Rab	General Director of Aswan RBO		J
Gaml El Seidy	General Director of Mansoursa RBO		
Kawser Hefny	Deputy Manager of AQD and Chief of CCC, EQS	Key Technical Department, EEAA	
Elham Rafaat	Manager of Hazardous Substance Department, EMS	Key Technical Department, EEAA	
Fouad Megaheed	General Director of GDME&E, CDCEA	Key Technical Department, EEAA	

<sup>\*:</sup> Primary counterpart targeted for technical transfer and capacity development through training, OJT and joint work

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Duration: Nov. 2005 - Oct. 2008 Revised date: July 3, 2007

Project Design Matrix (PDM1)

Target Area: Areas covered under the jurisdiction of the selected RBOs Project Title: Regional Environment Management Improvement Project in the Arab Republic of Egypt (REMIP) Implementing Agency: EEAA Target Group: REAA, RBOs

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Overall Goal	OCT FEAR is enformulational as the reliable commution aneany for orders and milklic sectors in	Survey ( Dusctionnairee	
EEAA and its RBOs together with other competent stakeholders become capable of evaluating environmental situations, identifying the control of each control of the control of each control of the control of each control of e			
the providing, welliamly the causes of such providing activities through possible solutions, and implementing countermeasures through		٠	
raising the environmental awareness of EMUs, enterprises, NGOs, and citizens.	OG3 The regulations and guidelines, etc. to support the implementation of countermeasures suggested by the project are promulgated and executed by sector ministries concerned.	Regulation / Decrees	
	OG4 Environmental awareness of enterprises and the citizens is enhanced.	Questionnaire surveys	
	10GS New activities to improve environment at the community level are started with combined efforts among EEAA /RBOs together with other competent stakeholders.	EEAA/RBO's Records	
Project Purpose	ppt Effective counteymeasures for environmental hollition. hazardous eutsclances are	Project records	- Policy and financial support is continuously provided by the Egyptian Government after the Project completion.
EEAA and its RBOs are enhanced on the capability of managing	prepared,		- Governorates, local public organizations, enterprises and
environmental data and information, suggesting countermeasures through On-the-Job Training.	PP2 More concrete data, information and arbievements obtained from RBO activities (including proposal of decrees) are published. (as a part of State of Environment (SOE) (if SOE is published.)	SOE, other publication	activities.  - Egyptian Policy for environmental sector will not drastically changes.
	PP3 EEAA/RBOS start their new activities after sharing information and implementation of trainings.	Project records	or other external organizations and Industries do not take regative reaction against implementing countermeasures by EEAA.
OUTPUTS		- CGC) * * * * * * * * * * * * * * * * * * *	December of adding and other meritarial but offer an annual of
1 EQS of FEAA and EQDs of RBOs become capable of proposing	1-1 bU% of energy consumption for a related target governorates are directly tablained.	SEAW RBOS REPORT	<ul> <li>recycles of other projects assert by one upin agencies.</li> <li>does not paradium, affect the project activities.</li> </ul>
countermeasures against air pollutions (site-evaluation, technical and administrative measures) based on the data and	L-2 Emission Inventory Report are prepared at selected sites.	EEAA/RBOs reports	does not regardely affect the project activities.
information collected and interpreted. (WG1)	1-3 Internal reports are issued based on the analysis of collected data.	EEAA/RBOs reports	- Other Depts of EEAA/RBO are cooperative to the Project.
	1-4 EMAJEEAA MMS/CAMAX model are to be validated and executed in five scenarios (Present, 2012, 2017 in BAU and two scenarios in different social and economic development rates for Sox, Mox and TSP) with the reasonable level of accuracy.	Project records	
	<ol> <li>Four activities required for countermeasure preparation are mastered by at least 10 staff representing EEAA, GCRBO, Tanta RBO and Mansura RBO.</li> </ol>	Project records	
	1-6 Integrated workshop with at least 60 participants is to be conducted before the end of August 2008 in order to share countermeasure proposals for air quality.	Project records	
2 Suez RBO becomes capable of proposing countermeasures against oil pollutions (site-evaluation, technical and	2-1 Integrated countermeasure plan that is effective for reducing oil pollution risk in Northern Gulf Region and viable for Suez R80 is prepared and approved by EEAA.	Project records	
administrative measures) based on the data and information collected and interpreted.(WG2)	2-2 Database for fingerprint date on crude oil and derivotives is furnished.	EEAA/RBOs reports	
3 EQS and EMS of EEAA, and EQDs and EMDs of RBOs become canable of identifying hazardous substances, compiling the	3-1 Monitoring report(s) are annually issued on hazardous chemical substances and information reported is shared and discussed with relevant stakeholders.	Project records	
data and information, and identifying their risks.(CC1)	3-2 Reports of Egyptian situation of hazardous chemical substances are issued.	EEAA/RBOs reports	
	3-3 Number of staff acquires knowledge and skilis to manage the process from Identifying possible politrition sources by sampling and analysis of hazardous chemical substances, evaluation of analysed deta, identification of hazardous chemical substances risks, and	Project records	
	removation countermeasures. 3-4 Data of pollutants is compiled as database, and shared the database with EEAA and	EEA4/RB0s reports	
	RAChs.  3-5 Guidelines for hazardous substances management are prepared.	EEAA/RBOs reports	

4 CDCEA( GDT) of EEAA becomes capable of planning, designing,	4-1 All training courses held by EEAA are registered at GDT.	Project reports	ANNEX 6
and inperiesing unimps within ECAN bases on the inferioration provided by all other relevant decreases formation three (WCS).	4-2 Training courses are implemented.	Project reports	
(coat) stronggraph of Jermann reduc	4-3 Evaluation by participants of training courses is utilized for improving new courses.	Project reports	
	4-4 Materials for training are compiled in GDT.	Project reports	
	4-5 At least 6 staff under GDTD become capable of managing the procedures of training activities. (to conduct/analyze TNA, plan, implement and evaluate the training course)	Project records	
5 EQD and EMD of Alex RBO become capable of proposing	5-1 Manuals/guidelines for inspectors are prepared and published.	Project records	
Production Frocess suppresentant as well as use Poliucion Abatement for industries/factories based on the data and information collected and interpreted.(WG4)	5-2 Seminars are held for industries to introduce successful introduction of cleaner production process including any good practices and of other organization(s).	Proect records	
	5-3 Number of countermeasure proposals prepared by RBOs is increased in the target industries.	Project records	
	5-4 Assessed inspection reports for the selected industries show significant improvement in quality.	Project recards	
	5-5. A report of best practices and recommendations for the selected industries is prepared and distributed.	Project records	
6 GDME&E of EEAA and concerned RBOs become capable of	6-1 Reports of baseline surveys of public awareness are issued.	Project records	
citizens. (WG5)	6-2 The number and details of awareness raising activities conducted in REMIP are registered in CDCEA.	EEAA/RBOs records	
	6-3 The report of second survey are issued.	Proect records	
	6-4 Evaluation by participants of awareness raising activities is utilized for designing new activities.	Project records	
7 AQD and GDME&E of EEAA become capable of disseminating the continuantal information to the outlie to effectively	7-1. Real-Time Air Monitoring Station with Display is operated and properly maintained.	EEAA/RBOs report	
utilizing the Real-Time Air Monitoring Station with Display.	7-2. Management plan of contents of display is prepared.	EEAA/RBOs records	
(cont)	7-3 Real-time Air Monitoring Station with Display is well-recognized by the people in Cairo city serving as "a symbol of environmental watchdog."	Questionnaire Survey	
8 SRBA of EEAA and concerned RBOs become capable of enhancing their capacities by mutual interaction through CC2	8-1 Seminar(s) for sharing the experiences and information obtained through REMIP activities are held among RBOs.	EEAA/RBO records	
mechanism.(CC2)	8-2 To ensure that the mechanism for sharing the experiences and information among RBOs are developed, monthly report from all RBOs includes CC2 activities.	Monthly report to SRBA	
Activities	INPUTS		
	The Egyptian Side	The Japanese Side	
See the Plan of Operation for details	1 Assignment of counterpart personnel and other necessary personnel	Dispatch of experts	<ul> <li>Counterparts remain assigned to carry out the activity.</li> </ul>
	2 Land, building and facilities for the Project	Training of counterpart personnel in Japan	<ul> <li>Appropriate budget (including cost for equipment maintenance) is continuously allocated.</li> </ul>
	3 Running expenses for the Project	Provision of equipment	
		I	Pre-Conditions

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UTPU	Activities	<b>3</b>  _	>	-  -	JF 2000	-		74.00		•	Jr 2008		
UTPU		4	1								L	Ţ	Key Depts.
IP IP		11-12		94	7-9 10-12	≥ ?	4-6	10-12	7 ₹	4-6	= 6.7	= 2	
	OUTPUT 1: (WG1)											 	
QS of forma	EQS of EEAA and EQDs of RBOs become capable of proposing countermeasures against air pollutions (site-evaluation, technical and administrative measures) based on the data and information collected and interpreted.	rmeasures	against	air pollu	rions (site-	evaluation,	technical	and adm	nistrative	measure	s) pased o	on the da	ıta and
1 =	To enhance the capability of making emission inventories and analyzing emission loads at the selected areas.			-							-		
1-4-1	Conduct Stationary Inventory Survey and database				<u> </u>				•		-	A A B A	AQD, GC RBO, Tanta RBO, Mansura RBO
1-1-2	Conduct Vehicle Inventory Survey			-					<b>-</b>			AQI	AQD,GC RBO, Tanta RBO, Mansura RBO
1.1.3	Conduct Survey of Present Rice Straw Burning Pattern			-			-					A A	AQD, GC RBO, Tanta RBO, Mansura RBO
1-1-4	Conduct Survey on Other Surface Emission Inventory											A AG	AQD,GC RBO, Tanta RBO, Mansura RBO
7.	Conduct Flue Gas Measurements								<b>.</b>			Ą	AQD, CCC
1-1-6	Conduct Rice Straw Burning Experiment			-								AQC	AQD, CCC
1-1-7	Investigate Emission Factors				:							A A	AQD,GC RBO, Tanta RBO, Mansura RBO
7	To enhance the capability of collecting data related to ambient air quality at sites.			<del></del>									
1-2-1	Collect Past Monitor Record (Two years)											Aab	
1-2.2	Collect Past Measurements on Lead, EPAP programme	-		<u></u>								Ā	AQD,CCC
7	To monitor air quality of regional hot spots with passive samplers in Nile delta area and the Greater Cairo.		<u> </u>										
1-3-1	Conduct Four Season's Integrated Passive Sampling Measurements and one extra during the black smoke period in GCRBO, TNT and MNR.							•				AQD, Tanta RBO	AQD,CCC, GC RBO, Tanta RBO, Mansura RBO
4	To enhance the capability of interpreting and appreciate overall ambient air quality at sites.				_								
14-	To analyze the data of all pollutants on SOx NOx, TSP measured in the activities 1-2-1, 1-2-2 and 1-3-1 as OJT.											A Tan RBC	AQD,CCC, GC RBO, Tanta RBO, Mansura RBO
2.	To develop the tool of preparing the countermeasures against air pollutions.												
1-8-1	Conduct Overall Load Analysis											AQD, Tanta RBO	AQD,CCC, GC RBO, Tanta RBO, Mansura RBO
1-5-2	Conduct Simulation Model Development											AQD, Tanta RBO	AQD,CCC, GC RBO, Tanta RBO, Mansura RBO
9-	To implement On-the Job Training for proposing countermeasure plan against air pollution						·						
1-6-1	Conduct QJT Training on Methodology for Countermeasure Preparation											A FE W	AQD,CCC, GC RBO, Tanta RBO, Mansura RBO
					<u>.</u>						-	A A A	AQD, CCC, GC RBO, Tanta RBO, Mansura

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		EG 2005	EG 2006	EG 2007	EG 2008	
	Activities	2005 IV	- 20 - 20	JP 200	-	Key Depts.
CONSTRUCTION OF THE PROPERTY O		11-12 1-3 4-6	7-9 10-12 1-3	4-6 7-9 10-12 1	4.6 7.9	
Suez RBO become	OUT OF ACTIVES. Suez RBO becomes capable of proposing countermeasures against oil pollutions (site-evaluation, technical and administrative measures) based on the data and information collected and interpreted	and administrative measur	es) based on the data and in	formation collected and interprete	Ġ.	
2-1	To implement On-the-Job Training for proposing countermeasure plan for reducing oil pollution risk in Suez region					
2-1-1 (Step 1)	<setup and="" group="" initiation="" of="" the="" working=""> <ul> <li>Organize WG2 for oil pollution program.</li> <li>Discuss the basic policy and strategy of the WG2's activities.</li> </ul></setup>					Suez RBO
2-1-2 (Step 2)	-(Saseline data survey>) (Collect, data/information on the current situation of oil pollution issues in Suez Region and share them among group members.					Suez RBO
2-1-3 (Step 3)	<ul> <li>Problem Identification on present oil pollution issues&gt; Identify problems in present management systems of oil pollution.</li> </ul>					Suez RBO
2-1-4 (Step 4)	<ul> <li>Linventory survey of oil pollution sources&gt;</li> <li>Make the inventory and clarify possible oil pollution sources.</li> </ul>					Suez RBO
2-1-5 (Step 9-a & 9-b)	<ul> <li>Examination of the countermeasures and evaluation of their effects</li> <li>Formulate the countermeasures against oil pollution issues.</li> <li>Evaluate the countermeasures against oil pollution issues.</li> </ul>			Step 9-a	Step 9-b	Suez RBO
2-1-6 (Step 10)	<ul> <li>-Preparation of recommendation report&gt;</li> <li>Recommend integrated countermeasures against oil pollution issues in the Suez Region.</li> </ul>					Suez RBO
2·1·7 (Step 11)	<seminar of="" ojt="" presentation="" results="" the=""> Share the results of OJTs on the countermeasure formulation and the fingerprint analysis technology in the seminar.</seminar>				<b>188</b>	Suez RBO
2-1-8 (Step 12)	<ul> <li>e-preparation of data book and dissemination of WG2 activities' results.</li> <li>make the data book for all results generated from WG2 activities.</li> <li>Disseminate the results of WG2 activities to the public, reporting the countermeasure plan in State of Environment.</li> </ul>					Suez RBO
2-2	To implement On-the-Job training dealing with oil fingerprint analysis.					0
2-2-1 (Step 5)	<ul> <li>Training program for oil fingerprint analysis and identification system of oil pollution sources (ISOS)&gt;</li> <li>Prepare the training program for fingerprint analysis.</li> <li>Discuss basic scheme and methodology for identifying oil pollution sources (ISOS).</li> </ul>					Suez RBO
2-2-2 (3 (3 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	<discussion collection="" data="" fingerprint="" of=""> Discuss and make the plan for collection concerning fingerprint data of oils.</discussion>					Suez RBO
2-2-3 Step 7-9 & 7-b)	<ul> <li>Technical Training of fingerprint analysis&gt;</li> <li>Hold the 1st technical training of fingerprint analysis and data evaluation to carry out the identification of oil pollution sources.</li> <li>Hold the 2nd technical training to supplement the 1st technical training.</li> </ul>		Step 7-a	Step 7 -b		Suez RBO
2-2-4 (Step 8-a & 8-b)	<ul> <li>- Reasuring and compiling of oil fingerprint data&gt;</li> <li>Collect crude oils to be analyzed.</li> <li>Conduct fingerprint analysis of crude oils and furnish the database of fingerprint data.</li> </ul>		8-a B -s.	9-8 days		Suez RBO

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Plan of Operations

	EG 2005   EG 2006   EG 2007   EG 2008	
Activities	2005 JP 2006 JP 2007 JF	Key Donte
	IV I II II IV II II IV II III IV	ney Deptis.
	11-12 1-3 4-6 7-9 10-12 1-3 4-6 7-9 10-12 1-3 4-6 7-9 10	
OUTPUT 3: (CC1)		
EQS and EMS of EEAA, and EQDs and EMDs of RBOs become capable of identifying hazardous substances, compiling the data and information, and identifying their risks.		
		HSMD, CCC, GC RBO, etc.
To establish committees among hazardous substances department and		
stakeholders.		
To collect information to identify hazardous chemical substances in order to		
implement surveys for preparation of inventory, monitoring and treatment		
3-2-1 To collect existing research and monitoring data on PCBs		HSMD, CCC, GC RBO, etc.
somming mentioned market and control of the control		HSMD, CCC, GC RBO, etc.
3-2-3 To collect existing research and monitoring data on heavy metals (Cd, Cr)		HSMD, CCC, GC RBO, etc.
To implement surveys for preparation of inventories and to identify potential		
contaminated sites		
3-3-1 To implement surveys on PCBs		HSMD, CCC, GC RBO, etc.
3-3-2 To implement Surveys on PAHs		HSMD, CCC, GC RBO, etc.
1		HSMD, CCC, GC RBO, etc.
3-3-3 To implement surveys on heavy metals (Cd, Cr)		
To implement On-the-Job Training for sampling and analyzing hazardous 3-4 chemical substances, monitoring and interpreting of monitoring data, and proposing counter measures		
3-4-1 To implement On-the-Job Training on PCBs		HSMD, CCC, GC RBO, etc.
3-4-2 To implement On-the-Job Training on PAHs		HSMD, CCC, GC RBO, etc.
To share information through coordination committee with other ministries, 3.5 institutions, universities, etc. related to hazardous chemical substance management		
3-5-1 To prepare a report and to share information on PCBs		HSMD, CCC, GC RBO, etc.
3-5-2 To prepare a report and to share information on PAHs		HSMD, CCC, GC RBO, etc.
3-5-3 To prepare a report and to share information on heavy metals (Cd, Cr)	SH	HSMD, CCC, GC RBO, etc.
To hold seminar(s) on monitoring of hazardous chemical substances and 3-6 countermeasures such as best available technologies of handling hazardous chemical substances		
and the contraction of the contr		

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Plan of Operations

		EG 2005	F	ľ	EG 2006		_	EG	EG 2007		EG 2008	800	
	A attivition	JP 2005		JP 2006		-	5	JP 2007			JP 2008	<u> </u>	7
	Activides	≥	-	[=	2	_	=	≡	2	-		≡	Key Depts.
		11-12 1-3	4-6	7-9 10	10-12 1-3	3 4-6	7-9	10-12	€.	9	7-9	10	
3-6-1	To hold a seminar for discussion about existing condition of PCBs pollution, possible pollution sources and countermeasures on the problem with relevant stakeholders			<del></del>								3	or Coo Jo Jo Jwan
3-6-2	To hold a seminar for discussion about existing condition of PAHs pollution, possible pollution sources and countermeasures on the problem with relevant stakeholders		<del>                                     </del>	<del> </del>			<u> </u>		-	<u> </u>			HSMD, CCC, GC RBO, etc.
3-6-3	To hold a seminar for discussion about existing condition of heavy metals (Cd,Cr) pollution, possible pollution sources and countermeasures on the problem with relevant stakeholders							-		<u> </u>		<u></u>	HSMD, CCC, GC RBO, etc.
3-7 T	To hold a seminar (Environmental Monitoring of hazardous chemical substances in Arab Countries) hosted by Egypt (EEAA)											±	HSMD, CCC, GC RBO, etc.
3-8	To establish a database to be used for PCBs /PAHs/heavy metals (Cd, Cr)												
3-8-1	To make a data entry for a database of PCBs												HSMD, CCC, GC RBO, etc.
3-8-2	To make a data entry for a database of PAHs											<u></u>	HSMD, CCC, GC RBO, etc.
3-8-3	To make a data entry for a database of heavy metals (Cd, Cr)												HSMD, CCC, GC RBO, etc.
ئ ق	To prepare guidelines for hazardous substances management including recommendation to strengthen the institutional system and to identify the risks.												. The state of the

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		2	FC 2005	-		2000			7000	200		0000		
		1P 2005	2004		10 2008	2000		700C <b>GI</b>		700	_ =	2008 10 2008	1	
	Activities		\ \ \ \ \	-	1000		-	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	-	, 0	-	L		Key Depts.
		2	+	4-6	7-9 10-12	2 1-3	4-6	7-9	10-12	2 7	- 4	7-9	Т	
	OUTDIT A MARCA	1		l	1	1						1		
CDCEA(	COCEA(GDT) becomes capable of planning, designing, and implementing trainings within EEAA based on the information provided by all offier relevant departments/organizations.	nin EEAA)	based on	the info	rmation <sub>1</sub>	provided l	by all oth	ier releva	int depa	rtments/	organiza	tions.		
1-4	To register all courses of staff trainings of departments within EEAA including RBOs							:					·	
4-1-1 Step-1	Review the current training courses												General Depar	General Department of Training (GDT)
4-2	To discuss and summarize needs of training with RBOs and departments of EEAA		]											
4-2-1 Step-2	Review mandates and required skills					· 							General Depa	General Department of Training (GDT)
4-2-2 Step-3	Conduct Training Needs Analysis (TNA)												General Depar	General Department of Training (GDT)
4-3	To advise specific courses to be participated in by RBOs and EEAA staff				·	• .								
4	To administer and implement training courses, in correspondence with other project activities. To prepare and compile materials for training courses													
4-4-1 Step-4	Practice trainings under REMIP												General Depar	General Department of Training: (GDT)
4-4-2 Step-5	Plan the preliminary training courses												General Depar	General Department of Training (GDT)
4-4-3 Step-6	Discuss on the database for training					.							General Depar	General Department of Training (GDT)
4-4-4 Step-7	Implement the training course based on the plan												General Depar	General Department of Training (GDT)
5-4-5	To make feedback system of final evaluation of training participants to be reflected on the couse program		ı											
4-5-1 Step-8	Revise the training plan												General Depar	General Department of Training (GDT)
4-5-2 Step-9	Continue the training	1											General Depar	General Department of Training (GDT)
4-5-3 Step-10	Finalize the procedure of management of training courses												General Depar	General Department of Training (GDT)
						ĵ								

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		EG 2005	-		5002 53			EG 2007		EG 2008	
	a diffixition	JP 2005		JP 2006			JP 2007		ļ.  -	JP 2008	
	Activities	III (V	1 1 4-6 7-9	10.12	≥ ?	- 4	1 2-9	10.42	- 4	1 1 1	III Ney Depts.
OUTPUT 5: EQD and Ef interpreted.	OUTPUT 5: (WG4) EQD and EMD of Alex RBO become capable of proposing Production Process Improvement as well as the Pollution Abatement for industries/factories based on the data and information collected and interpreted.	s Improvement as	well as th	e Pollutio	n Abaten	nent for i	ndustries/fa	ctories b	sed on t	he data and i	nformation collected
5-1	To collect information on industrial pollution abatement technologies including process improvements for compiling as knowledge basis at selected industrial area(s) to use for making factory inspection manuals/ guidelines for inspectors of RBOs and EEAA, and for holding seminar(s) to introduce and disseminate some successful cases of introductions of pollution abatement technologies for factories.										
5-1-1	To set up Working Group 4 (WG4) for Production Process Improvement Guidance										Alex RBO
5-1-2	To collect baseline information on industrial secotor of Alexandria, carry out inventory for petroleum-related, petrochemical and cement industry, and to compile the information into a report.										Alex RBO
5-1-3	To implement training and instruction of for pollution abatement and process improvement for petroleum-related, petrochemical and cement industry including more technical assistance from Japanese side.										Alex RBO
5-1-4	To implement factory interview surveys for collecting information of planned project to adopt pollution abatement technologies by factories themselves and proposing possible new measures for pollution abatement on factories										Alex RBO
5-1-5	To prepare a report of best practices and recommendations for the industries.										Alex KBO
5-1-6	To hold a seminar to exchange information of pollution abatement technologies among relevant stakeholders to adopt pollution abatement technologies								_		Alex RBO
7 5-2	To implement OJT dealing with the factory inspections of RBOs staffs for reflecting those experiences to prepare a new inspection manual.		,,								
5-2-1	To assist factory inspectors and other related staff of Alex REO for inspection										Alex RBO
5-2-2	To prepare an inspection manual for petroleum-related and petrochemical industry		·								Alex RBO

Plan of Operations

	Activities	2005 JP 2006 JP 2007 JP 2008	ante
UTPUT	OUTPUT 6: (WG5) GDME&E of EEAA and concerned RBOs become capable of raising public awareness to EMUs, enterprises; NGOs, and citizens.		
6-1	To implement prototype surveys of public awareness of potential target groups at selected site(s),		
6-1-1	Preparation of Work Plan for WG5 -Setting up WG5 -Preparation of dreft Work Plan and finalization	ODMERE	E&E
6-1-2		ODME&E	E&E
6-2	To analyze needs of awareness raising activities in consultation with REMIP components and RBOs.		
6-2-1	To specify autcomes, liming and target group for public awareness activities	GDMERE, Air Quality Dept.  Hazardous Substance Management Dept.  Suze RBO, Alex RBO, Tenta RBO, GC RBO, Assurt RBO	pt. snagement Dept., inta RBO, GC RBC
6-2-2	Review of the current public awareness activities	GDME&E	<b>:&amp;</b> E
6-2-3	Identify suitable public awareness activities	GDME&E	58E
6-3	To design awareness raising activities by using REMIP outcomes in coordination with RBOs, other stakeholders such as media and NGOs.		
6-3-1		GOMERE, Air Quality Dept. Hazardous Substance Management Dept. Suez Reb., Alex Reb., Tanta Reb., GC Reb. Assuit RBO.	pt., anagement Dept., inta RBO, GC RBC
6-3-2	To select means (media and communication network) for dissemination of environmental information	GOME&E Suez RBO, Alex RBO, Tanta RBO, GC RBO, Assuit RBO	ınta RBO,
4-4	To administer and implement awareness raising activities for inductries, NGOs, farmers, citizens on the selected topics as indicated in the design sheets. To prepare and compile materials and to distribute to RBOs.		
6-4-1	Prepare necessary materials for public awareness activities	Suez RBO, Janta RBO, GR RBO, Assuit RBO GR RBO, Assuit RBO	inta RBO,
6-4-2	Implementation of public awareness activities by using REMIP outcomes in coordination with RBOS.	GDME&E Shaz RBO, Tanta RBO, GC RBO, Assuit RBO	inta RBO,
6-5	To implement the second survery for examining impact of 6-4 activities in RBOs.		
6-5-1	Prepare the TOR for the survey	GDMERE	SE
6-5-2	Implementation of the survey	GOMERAE	- SE
9-9	To share information through working group with other ministries, institutions, universities, etc. related to public awareness raising.		L
7.3	5-3 self-with a drawed an located and beautified 6-5		I Se FE

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ANNEX 7-7

Plan of Operations

	Activities	ž Š	EG 2006 JP 2006	900	JP 2007	G 200	EG 2008 JP 2008	Y Cost
	ALIVINGS	III IV	4-6 7-9 10-12	√ 1.3 - 4.6	II III 7-9 10-12	≥ 7	1 N N 14	Ney Depts.
OUTPUT AQD and Display.	OUTPUT 7: (WG6) AQD and GDME&E of EEAA become capable of disseminating the environmental information to the public by effectively utilizing the Real-Time Air Monitoring Station with Display.	mental inform	ation to the public	by effecti	vely utilizing	gʻthe Real⊷l	limë Air Monitô	ring Station with
7-1	To install and operate the Real Time Air Monitoring Station at Tahrir Square.							Air Quality Dept.
7-2	To install the Display as a system to monitor the air pollution in Cairo city.	N			The state of the s			Air Quality Dept.
7-3	To manage the monitored cata to ensure its relevance in collaboration with AQD.						**************************************	Air Quality Dept.
7-4	To implement awareness raising activities by utilizing a Real-Time Air Quality Monitoring Station with Display in collaboration with GDME&E							
7-4-1	To review the results air monitoring data							Air Quality Dept
7-4-2	, ,							GDME&E
7-4-3	요 <b>분</b>							GDME&E
7-4-4	To produce brochures and other commur the air quality parameters							GDME&E
7-4-5	To review the design the contents based experimental dissemination of information							GDME&E
7-4-6	To enter the data into display and start the daily operation							Air Quality Dept, GDME&E
7-4-7	, To conduct the survey to measure the level of recognition by the pubic of Cairo							GDME&E
7-5	To implement the OJT and other trainings through all the activities of 7-1 through 7-4.	-			•	•	•	GDME&E
								4

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Plan of Operations

anism.			EG 2005 EG 2006 EG 2007 EG 2008	
A respectives by mutual interaction through CC2 mechanism.  Incommendation of the control of the		Activities	2005 JP 2006 JP 2007 JP 2008	Depts.
pic undar REMIP  Tota with other RBOs and  The seminary  The Bos and Annowledge obtained  The Seminary  The Bos and Williams  The Bos and Williams  The Bos and Williams  The Bos and Williams  The Bos to the other RBOs and  G3 will all wes  The Bos to the other RBOs and WG3 will all wes  The Bos to the other RBOs and WG3 will all wes  The Bos to the other RBOs and WG3 will all wes  The Bos to the other RBOs and WG3 will all wes  The Bos to the other RBOs and WG3 will all wes  The Bos to the other RBOs and WG3 will all wes  The Bos to the other RBOs and WG3 will all wes  The Bos to the other RBOs and WG3 will all west and WG3 will all will all west and WG3 will all west and WG3 will all west and WG3 will all west and			1-3 4-6 7-9 10-12 1-3 4-6 7-9 10-12 1-3 4-6 7-9	
ling semirar in TROs. and in the RBOs. and the other RBOs. an	COUTPUT	7 8: (CC2) EEAA and concerned DBOs became comble of enhancing their connectics by method intersections		
4. Sellating of Condester Committee 2 for information sharings  4.1 Holing (select group members  4.2 Understanding modes for information sharings to the facility of Condester Committee 2 for information sharings to the COC mechanism  4.2 Understanding modes for information sharings to sharing the SERIP  4.3 Understanding modes for information sharings to sharing same and homologies obtained as the SERIP  4.4 Understanding modes for information sharings are not sharing same and the selection and finisher and finisher sharings are not sharing same and the selection and finisher sharings are not sharings.  4.1 Action plan of COC in developed  4.1 Action plan of COC in developed  4.2 The payment of informations sharings (Addiest Shori REQUe)  4.3 Chapter to the median sharings (Addiest Shori REQUe)  4.4 Action than of the median sharings (Addiest Shori REQUe)  4.5 Inspire the notion of the median sharings (Addiest Shori REQUe)  4.6 Onblain the funds form WiG3 for one year trainings.  4.7 Action that not inclinate and texticodes to all other REQUe.  4.8 Inspire maternals and texticodes to all other REQUe.  4.9 Sanid threes maternals and texticodes to all other REQUe.  4.9 Conduct training according to the plan for specific REQUe.	1.8	To hold coordinating committees among RBOs.	The resident and the second and the	
1-2 Configuration of the Configuration of Parison  1-2 Configuration of the Configuration of Parison  1-2 Configuration of the Configuration of Parison  1-2 Configuration of the Leave CCC2 machinism and RBOs with other RBOs and departments.  1-2 Configuration of the Department of Series and RBOs with other RBOs and departments.  1-2 Configuration of the Department of Series and Parison  1-2 Configuration of Institute for the series and RBOs.  1-3 Configuration of Institute for the series and Series and RBOs.  1-4 Configuration of Institute for the series and Action RBOs and RBOs.  1-4 Configuration of Institute of the Series and S	8-1-7 Step		SRBA, 4 Lee RBOs, 4 Other RBy Depts, 0 GDT	4 Leading Other RBOs, ots., of HQ, SDT
To implement and sentines to a barre experience and fet out activities at 1800 with other 1800 and dependent and incline and and topics to be presented in sharing seminar.  2-4 Thorson incline and incline and and topics to be presented in sharing seminar and topics to be approved from WGS for one year training.  2-4 Develop the mechanism to sharing from the sharing.  2-5 Seminar the sharing sharing force the seminar and topics to be approved from WGS for one year training.  2-7 Ordan the approved from WGS for one year training.  2-7 Ordan the sharing sharing force the fibror and sharin	8-1- Step		SRBA	RBA
Action parameter for the period of service (b) to share experiences and transledge obtained by the period of service (b) to share experiences and transledge obtained by the period of a more of the period (b) to share experience of the period (b) to share exper		seminars to share experiences of the OJT activities at R		
To implement follow-up activities for the seminars of activity 8-2 at each RBOs.  1-13 Action plan of CC2 is developed.  1-14 Action plan of CC2 is developed.  1-15 Request all WG/CC and JICA expert to review the Action Plan.  1-15 Obtain the approval from WG/CC.  1-16 Obtain the funds from WG/CC.  1-17 Obtain the approval from WG/CC.  1-18 Implement family Bob to the other RBOs under CC2 and WG3 full alives from WG/CC.  1-19 Obtain the funds from WG/CC are collected by CC2.  1-10 Obtain the funds from WG3 for one year training.  1-10 Obtain the funds from WG3 for one year training.  1-11 Obtain the funds from WG3 for one year training.  1-12 Send these materials, lextbooks used through OJT by each WG3/CC are collected by CC2.  1-13 Ordan the funds from the fund for specific RBOs.	8-2-' Step			eading RBOs, RBOs, Key of HQ, GDT
Action plan of Co2 is developed  Request all WG/CC and JICA expert to review the Action Plan.  Request all WG/CC and JICA expert to review the Action Plan.  Request all WG/CC and JICA expert to review the Action Plan.  Obtain the approval from WG/CC.  Obtain the approval from WG/CC.  Obtain the Annd's from WG/CC.  Obtain the Annd's from WG/CC.  Implementation of information sharing (Advices from leading RBOs to the orther RBOs)  Implement braining by leading RBOs and expert RBOs under CC2 and WG/S tritistives  Materials, textbooks used through OJT by each WG/CC are collected by CC2.  Send these materials and textbooks to all other RBOs.	ı	To implement follow-up activities for the seminars of activity 8-2 at each RBOs.		
Action plan of CC2 is developed  Request all WG/CC and JICA expert to review the Action Plan.  Obtain the approval from WG/CC.  Obtain the approval from WG/CC.  Obtain the funds from WG/CC.  Obtain the funds from WG/CC.  Implementation of informaction sharing (Advices from leading RBOs to the other RBOs)-  Implementation of informaction sharing (Advices from leading RBOs to the other RBOs)-  Implementation of informaction sharing (Advices from leading RBOs to the other RBOs under CC2 and WG/CC are collected by CC2.  Send these materials and textbooks to all other RBOs.  Conduct training according to the plan for specific RBOs.	8-3-			
Request all WG/CC and JICA expert to review the Action Plan.  Obtain the approval from WG/CC.  Obtain the funds from WG/CC.  Obtain the funds from WG/CC.  Chiplementation of information sharing (Advices from leading RBOs to the other RBOs)- Implement training by leading RBOs to the other RBOs under CC2 and WG/S initiatives  Materials, textbooks used through OJT by each WG/CC are collected by DC2.  Send these materials and textbooks to all other RBOs.  Conduct training according to the plan for specific RBOs.	8-3-1	ĺ	SRBA	RBA
Obtain the approval from WG/CC.  Obtain the funds from WG3 for one year training.  Challen the funds from WG3 for one year training.  Amplementation of information sharing (Advices from leading RBOs to the other RBOs) intellement training by leading RBOs to the other RBOs under CC2 and WG3 initiatives  Materials, lextbooks used through OJT by each WG/CC are collected by CC2.  Send these materials and textbooks to all other RBOs.  Conduct training according to the plan for specific RBOs.	8-3-1			eading RBOs. RBOs, Key of HQ, GDT
Obtain the funds from WG3 for one year training.  Implementation of information sharing (Advices from leading RBOs to the other RBOs) Intriblement training by leading RBOs to the other RBOs under CC2 and WG3 initiatives Materials, extbooks used through OJT by each WG/CC are collected by CC2. Send these materials and textbooks to all other RBOs. Conduct training according to the plan for specific RBOs.	8-3-1		SRBA 4 Leading 4 Other RBOs Depts, of HQ	eading RBOs, RBOs, Key of MQ, GDT
cImplementation of information sharing (Advices from leading RBOs to the other RBOs initiatives implement training by leading RBOs to the other RBCs under CC2 and WG3 initiatives  Materials, lextbooks used through OJT by each WG/CC are collected by CC2.  Send these materials and textbooks to all other RBOs.  Conduct training according to the plan for specific RBOs.	8-3-1	}	SRBA, GT	A, GDT
Materials, textbooks used through OJT by each WG/CC are collected by CC2.  Send these materials and textbooks to all other RBOs.  Conduct training according to the plan for specific RBOs.	8-3-5 Step			
Send these malerials and textbooks to all other RBOs.  Conduct training according to the plan for specific RBOs.	8-3-2	Materials, textbooks used through OJT by each WG/CC are col	SRBA, GC	A, GDT
Conduct training according to the plan for specific RBOs.	B-3-2		SRBA 4 Leading 40ther RBOs Depts, of HQ	RBOs, Key MHQ, GDT
	8-3-2		SRBA 4 Leading 4 Other RBOs Depts, of HQ	eading RBOs, RBOs, Key of HQ, GDT

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Monitored by JICA Expert Team as of 30th June 2007

Demarcation of Items to be Inputted for REMIP Operation from April 2007 to March 2008

U"= unknown/ not yet and to be monitored	
∵"= none, "	
3"= already or ready but insufficient, "C	
Input status: "A"= already or ready for arrangement, "B	

2. Inputs as Running Expenses Implication These inputs will be provided by EEAA.	(i) Other transportation, accommodation and (i) U per diem (ii) Printed inventory survey sheet (iii) A (iii) A (iii) Communication cost (iv) Utilities for preparation of stationary (v) U inventory (v) Logistic cost	(i) Transportation, accommodation, and per diem diem (ii) Printed inventory survey sheet (iii) A (iii) Communication cost (iv) Utilities for preparation of mobile (v) Utilities for preparation of mobile (v) U (v) Logistic cost	(i) Labo-work cost including glassware, (i) U consumables, and chemicals for analysis (ii) U of NOx, SO2, and PM  (ii) Logistic cost  To be specified	(i) Communication cost (ii) Utilities for running dispersion approach (iii) A (iii) Logistic cost  To be specified
Implication Monitored	(i) A (ii) A (iii) A (iv) A (v) U	survey (ii) U did (ii) Cc (iii) Cc (iv) Ut iiv (iv) Lc (v) Lc	(i) A (i) (ii) A (ii) (iii) A (ii)	(i) A (ii) U (iii) A
1. Planned Inputs for Technical Assistance These inputs will be provided by JICA. Inputs for training purpose are included.	JICA Expert Team     (ii) National Expert for verifying the stationary inventory data & information     (iii) Safety materials for inventory survey     (iv) Transportation (vehicles) for collecting inventory survey information     (v) Assistant surveyors	(i) JICA Expert Team (ii) Supplemental mobile inventory surversed (Sub-contract work if necessary)	(ii) JICA Expert Team (ii) Transportation (vehicles) for collecting passive sampler (iii) Assistant surveyors	JICA Expert Team     (ii) National Expert for applying local resource for modeling of air pollution condition.     (iii)Utilities
Relevant Activities	(1) Preparation of stationary inventory survey	(2) Preparation of mobile inventory survey	(3) Measurement and analysis by passive sampling	(4) Development of dispersion approach
wG/CC	WG1 Regional Air Pollution Control Management System Improvement			

Implication Monitored			n (i)		(i) B (ii) A		(i) A (ii) U (iii) A		(i) A (ii) U (iv) A (v) A (v) A	A(V)	(i) A (ii) A		
2. Inputs as Running Expenses	These inputs will be provided by EEAA.		(i) Transportation, accommodation and per diem for participants from EEAA and RBOs	To be specified	(i) Logistic cost	To be specified	(i) Labo-work cost including glassware, consumables, and chemicals for fingerprint analysis (ii) Utilities for compiling fingerprint data (iii) Logistic cost	To be specified	(i) Inventory surveyors (ii) Transportation, accommodation and per diem (iii) Printed inventory survey sheet (iv) Communication cost	(v) Cultures for preparation of positions inventory (vi) Logistic cost  To be specified	(i) Communication cost (ii) Logistic cost	To be specified	6
Implication Monitored			(i) A (ii) U (iii) U		(i) A (ii) A	(iii) A	(i) A		(i) A		(i) U		
1. Planned Inputs for Technical Assistance	These inputs will be provided by JICA. Inputs for training purpose are included.	simulation/computation (PC, etc.)	(i) JICA Expert Team (ii) Venue of workshop (iii) Materials for workshop		(i) JICA Expert Team (ii) National expert for support of supplemental fine-train analysis training	(iii) Chemicals and consumables for the training	(i) JICA Expert Feam		(i) JICA Expert Team		orting compil	and interpretation of obtained data/ information	
Relevant Activities			(5) Training workshop		(1) Supplemental training of fingerprint	analysis	(2) Measuring and compiling of fingerprint data		(3) Preparation of oil pollution source inventory		(4) Evaluation of fingerprint data	and examination of	
WG/CC			WG1 Regional Air Pollution Control	Management System Improvement	WG2 Oil Pollution	riogram	·						

Implication Monitored		(i) C	(i) C (ii) A (iv) A	(i) V (ii) A	(ii) U (iii)	(ii) U	(ii) U (iii) U (iii) U
2. Inputs as Running Expenses These inputs will be provided by EEAA.		(i) Transportation, accommodation and per diem for participants from EEAA and RBOs  To be specified	(i) Database software (ii) Printed material for discussion (iii) Utilities for database development (iv) Logistic cost <u>To be specified</u>	(i) Certification (ii) Logistic cost for training  To be specified	(i) Transportation, accommodation, and per diem for trainees (ii) Venue of trial training course (iii) Logistic cost for training	(i) Communication cost (ii) Logistic cost  To be specified	(i) Transportation, accommodation, and per diem for trainees (ii) Communication cost (iii) Logistic cost  To be specified
Implication Monitored		(i) A (ii) U (iii) U	(i) A (ii) U (ii) A (iv) A	(i) A (ii) A (iii) U	(i) A (ii) U	(i) A	(i) A (ii) U (iii) U
1. Planned Inputs for Technical Assistance These inputs will be provided by JICA. Inputs for training purpose are included.		(i) JICA Expert Team (ii) Venue of workshop (iii) Materials for workshop	(i) JICA Expert Team (ii) National expert for support of TNA (iii) National expert for support of database preparation (iv) Utilities for database development (PC)	(i) JICA Expert Team (ii) Venue of training (iii) Materials for training	JICA Expert Team     Technical materials for one training course as trial.	(i) JICA Expert Team	(i) JICA Expert Team (ii) Venue of CC2 meeting (iii) Materials for CC2 meeting
Relevant Activities	countermeasure s	(5) Training workshop	(1) Examination of Training Needs Analysis (TNA)	(2) OJT for administrating REMIP training	(3) Assistance on Implementation of Training	(4) Development of feed-back system for evaluation of training	(5) Collaboration with CC2
WG/CC			WG3 Training Capability Enhancement Program				

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Implication Monitored	(iv) A	(i) B (ii) A (iii) U (iv) U (v) A	(i) U (ii) U	(i) A (ii) A (ii) U (iv) A	D (b) D (c) D (x) D (x) D (x)	(i) U
2. Inputs as Running Expenses These inputs will be provided by EEAA.	development renewal  (iii) Transportation, accommodation and per diem  (iv) Communication cost and other logistic cost  To be specified	(i) Transportation, accommodation and per diem (ii) Printed inventory survey sheet (iii) Safety materials (iv) Communication cost (v) Logistic cost  To be specified	(i) Labo-work cost including glassware, consumables, and chemicals for analysis of PCBs  (ii) Logistic cost  To be specified	(i) Database software (ii) Communication cost (iii) Utilities for development of PCBs database (iv) Logistic cost  To be specified	(i) Inventory surveyors  (ii) Transportation, accommodation and perdiem  (iii) Printed inventory survey sheet  (vi) Communication cost  (v) Logistic cost  To be specified	(i) Transportation, accommodation and per
Implication Monitored	(iv) U	(i) A (ii) A	(i) A (ii) A	(i) A (ii) U (iv) U (iv) U	(ii) A (ii) A	(i) A
<ol> <li>Planned Inputs for Technical Assistance</li> <li>These inputs will be provided by JICA. Inputs</li> <li>for training purpose are included.</li> </ol>	(iii)Utilities for recording awareness raising activities using real-time monitoring station (PC, video, etc.) (iv) Installation of display	<ul><li>(i) JICA Expert Team</li><li>(ii) National expert for supporting continuation of inventory survey.</li></ul>	JICA Expert Team     (ii) National expert for supporting finalization the report	(i) JICA Expert Team (ii) National expert for support of risk examination (iii) National expert for integrating database preparation into existing DANIDA database (iv) National expert for support of PCBs management guideline preparation	(i) JICA Expert Team (ii) Safety materials	(i) JICA Expert Team
Relevant Activities	Raising Activities using Real-time Monitoring Station	(1) Expansion of PCBs inventory survey on RBOs	(2) PCB monitoring activity and report finalization	(3) Continuous work for risk examination and development of PCBs database and finalize PCBs report	(4) Preparation of PAHs and heavy metals pollution source inventory	(5) Training of
w6/cc	Using Air Monitoring Station with Display	CC1 Sound Management on Hazardous Chemical Substances				

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~	Relevant Activities	1. Planned Inputs for Technical Assistance	Implication Monitored	2. Inputs as Running Expenses	Implication
	-	These inputs will be provided by JICA. Inputs for training purpose are included.		These inputs will be provided by EEAA.	
-	PAHs analysis	(ii) National expert for support of PAHs analysis (iii) Chemicals and consumables for the training	(ii) A (iii) U	diem for trainees  To be specified	
9	(6) PAHs and Heavy metal monitoring activity	(i) JICA Expert Team	(i) A	<ul> <li>(i) The existing electro-thermal AAS should be fixed (repairing or replacement). In the case of repairing, the estimated budget for spare parts to improve operational condition of exiting electro-thermal AAS would be EGP 60,000.</li> <li>(ii) Utilization of the electro-thermal AAS in Greater Cairo RBO should be considered if the above is inapplicable.</li> </ul>	(ii) U
·				(iii) Labo-work cost including glassware, consumables, and chemicals for analysis (iv ) Logistic cost  To be specified	U (ii) U (vi)
19	(7) Preparation of database of PAHs and heavy metal pollution source and monitoring results	8	(i) A	(i) Database software (ii) Communication cost (iii) Utilities for preparation of database (iv) Logistic cost  To be specified	(i) A (ii) U (iv) U
3	(8) Seminar	(i) JICA Expert Team (ii) Venue of seminar (iii) Materials for seminar	(i) A (ii) U (iii) U	(i) Transportation, accommodation and per diem for participants from EEAA  To be specified	n (i)
6	seminar	JICA Expert Team     Assistance to hold international seminar     (Sub-contract work to private sector)	(ii) U	(i) Transportation, accommodation and per diem for participants from EEAA and RBOs  To be specified	Ú (Ú
	) Advise on	(i) JICA Expert Team	(j) A	(i) Cost for initiation and expansion of the	(i) U

-9-

ANNEX 9	Implication Monitored		(ii) U	Ω (III)			
	2. Inputs as Running Expenses	These inputs will be provided by EEAA.	experiences of REMIP toward the other (ii) U	KBOs  (ii) Necessary training on the other RBOs for	sharing information on REMIP	(iii) Logistic cost	To be specified
	Implication Monitored		(ii) U	) (III)			
		These inputs will be provided by JICA. Inputs for training purpose are included.	(ii) Venue of CC2 meeting	(III) Materials of CC2 meeting			
	Relevant Activities		RBOs'	sharing	Experience of	OJT	
	WG/CC		Sharing of	REMIP among	RBOs		

End of Document

プロジェクトの実施体制

プロジェント目標	提書能力 の対処能力( 機書能力 向 上	7条への対処能力(環境保全対策の提言能力) **プロー	及び研修・養富 (3) 研修計画 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	及び研修・意識啓発活動実施能力)が向       3)研修計画 立案・実施・評価能力所       WG3     生産工程       研修能力     生産工程       O     O	(大力) が向上 (CC2 (BC02 (BC0) 集 (A) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	る	東地能才向正 WG6 大気監視装置・ 急議啓発
各アウトブットの WG! Aid MG2 Aid MG2 Aid MG2 Aid MG2 SPM 対策 流出油対策 流出油対策 流出油対策 が出ているvially Dept CCC Costal Mgt Dept.		1000 160	3. 母修計 WG3 母修能力 O O O	10mm   2mm   1mm   1	2002 第002 第004 第004 第004 第004 第004 第004		本布能方向 E WG8 大気監視装置・意識啓発
後アウトブットの WG1 流出油対策 流出油対策 (April 1960) (Apr	Ö	6C1 有害化学物質管理 0 0 0 0 0 0	WG3	WG4 生產工程 O	RBO A A B B B B B B B B B B B B B B B B B	意識啓発 意識啓発	WG6 定職啓発 意識啓発 O
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お Big EMU、 哲 神 一 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・		区行政機関及び EMU、保証が、		Alex 地区石油関		カイロ大学	17
科、Center for 港湾局、スエズ 774 Li governorate		傾着、カイロ地区電力公 オ NCO(Day Hooskel	DANIDA	連・セメント関連ナゼ国産		NGO, 6-October.	governorate
Environment 運河局、0.i.i Hazard Mitigation Sector 他	6.1	titute 等)、DAN		工物条约官 年即 門、NRC			
<b>夕部関係者フベア</b>			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
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エジプト国地域環境管理能カ向上プロジェクト中間評価調査

評価グリッド

1. 実績の検証(ACHIEVEMENT)

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調査手法	資料レビュー 聞き取り	資料レビュー調き取り	数 並 レ に ュ ー ロ ・	数率しにューロック ロップ	演 本
情報源	プログレスレポート、業務完了報告書、中間 評価事前検討資料 専門家、CP	プログレスレポート、業務完了報告書、 中間評価書前検討資料 専門家、CP	プログレスレポート、業務完了報告書、中間評価事前検討資料 専門家、CP	プログレスレポート、業務完了報告書、中間 評価事前後討資料 専門家、CP	プログレスレポート、業務完了報告書、中間 評価等前後計資料 専門家、CP
F''\$	機材供与実績、終費	貴の概要等		2-1 有害化学物質のモニタリング報告書が毎年 発行される 12-2 エジプトにおける有害化学物質の管理状況 に関する報告書が発行される 2-3 X名のスタッフが有害化学物質の特定、データ、情報の収集、リスク評価ができるようになる 2-4 汚染物質のデータがデータブックとして集積される	3-1 環境庁で行われる全ての研修が環境庁研修制にて製造されるのスタッフが研修の運営管理(企画・実施・評価)ができるようになる。3-3 研修への参加者による評価が新コースの14成に活かされる。4-4 に成に活かされるが作成され、企業を対象にした生産工程導入の成功例紹介のセミナーが開催される。5-5 工場での生産工程改善指導の数と地方支局によって作成された対策提言の数が増える。67]
必要なデ	投入実績:専門家派遣状況、研修員受け入れ状況、機材供与実績、経費	投入実権:CP配置状況、施設機材配備状況、運営費の概要等	期行PDM上の指標 1-1 遠定された地域で発生源インベントリが作成さ 1-2 環境庁においてモニタリングデータ、発生源イン ペントリ及び排出負荷の分析に基づく(内部の)報告 書が集行され、公開される 1-4 地方支局で作られた対策案の繋が増加する 1-5 黒煙の原の数質が特定され、報告される 1-6 黒煙の原の数質が特定され、報告される 1-7 石油流出者が特定され、報告される 1-7 石油流出者が特定され、報告される 1-7 石油流出名が特定され、報告される 1-8 大龍地池の発生原因となる活動を管理する提案 が作成されている 1-9 表示機付大気監視装置が運営され、適切に維 持される	2-1 有害化学物質のモニタリング報告書が毎年発 2-1 有害化学物質のモニタリング報告書が毎年 行される 2-2 エンプトにおける有害化学物質の管理状況に関 2-2 エジプトにおける有害化学物質の管理状況 1-3 る報告書が発行される に関する対告書が発行される 2-3 教育訓練されたスタッフが増加する 2-4 汚染物質のデータがデータブックとして集積さ 2-4 汚染物質のデータがデータブックとして集積さ たる	3-1環境庁で行われる全ての研修が環境庁研修部 3-1 2-1環境される 第 1-1で登録される 第 3-3 研修の教材が蓄積される 3-4 研修への参加者による評価が新コースの作成 3-2 に活かされる 1-5かされる 3-5 地方之馬の間で連絡会議が開催される 3-6 セカスペクター用のマニュアル、ガイドブックが 作成される 3-7 工場での生産工程改善指導の数と地方支局に 3-7 工場での生産工程改善指導の数と地方支局に よって作成された対策提言の数が増える 同日 2-3 目 2-3 目 3-3 日
調査の視点/調査事項	日本側投入は計画通り実施された 投入実権: 専か?	エジント側投入は計画通り実施されたか?	アウトブット アウトブット アウトブット 機場庁が収集・評価したデータ及 び情報に基づき、環境汚染に対す る対策(サイト調査や技術的及び 行政的方法)が提案できるように なったか?	: 化学物質の特定 データ及び情報の収 育害性のリスク評価 なったか?	7ウトブット3: 環境下コニナーション・任民容 に 発局研修部が他の関連部署・機関 3 が提供した情報に基づいて、研修 3 を計画、設計及び実施できるよう 3 になったか? 3 3 3
調查小項目		<b>非</b> 児 人の		, K04	- プットの達成状況
調查項目					実績の検証

# エジプト国地域環境管理能力向上プロジェクト中間評価調査

評価グリッド

資料レビュー 団を取り ワークショップ		<b>漢ギレボュー</b> 聞き取り	資本でにュー 国本扱う		資料しだュー 国本男リ
プログレズレポート、乗務完了報告書、中間 資 評価事前検討資料 専門家、CP ロア ・		プログレスレポート、業務完了報告書、中間 (資) 野価事前検討資料、 野価事前検討資料、 専門家、CP	プログレズレポート、業務完了報告書、中間「資」 評価事前検討資料、 専門家、CP	プログレスレポート、業務完了報告書、中間評価事前検討資料、	プログレスレポート、業務完了報告書、中間(資 評価事前検討資料、 專門家、CP
4-1 市民の環境認識のペースライン報告書が発行される 4-2 カイロ地方支局及びアレキサンドリア地方支 5局で行われている全ての市民啓発活動が取りま とめられる 4-3 ニーズ分析に基づいて立案された環境啓発 活動が(少なくと*回) 実施される に動が(少なくと*回) 実施される にも別門 回の設計に活かされる 4-5 リアルタイム大気報測装置の表示を活かし た意識啓発活動が環境庁意識啓発活から ま存される	修正案(暫定案)	)実施促進に必要な研修・意識啓発活 指標1. 環境庁(EEAA)の所轄部署とRBOが連携 プロよる して環境課題に対処する責任・役割分担が明示 評価される	掛標2. 環境汚染、有害物質に関する効果的な 対策 (実施計画) 案が作成される	指標3:地方支局の活動から得られたデータや情報、活動素績(条例decres案などの対策案を含む)が取りまとめられ、SOEに掲載されるドラフト案が作成される	指標4.連絡会議(活動3-6参照)で共有した特定の地方支局の経験をもとに、他の地方支局でもデータ評価に基づく対策案の作成や研修、意識啓発活動が始まる
4-1 市民の環境認識のベースライン報告書が発行される 4-2 カイロ地方支局及びアレキサンドリア地方支局 で行われている全ての市民啓発活動が取りまとめら れる 4-3 ニーズ分析に基づいて立案された環境啓発活 動が始まる 4-4 意識啓発活動参加者による評価が次の新しい 活動計画の設計に活かされる 4-5 関係するステークホールダー間で情報が共有 化される 4-5 関係する人子のオールダー間で情報が共有 付き理される 4-1 リアルタイム大気観測装置の表示を活かした意 講啓発活動が環境庁意識啓発部による 3-2 リアルタイム大気観測装置の表示を活かした意 請啓発活動が環境庁意識啓発部によって実行される	現行PDM上の指標	指標1.対策の 動の数が増え		指標2:地方支局の活動から得られたデータや情報、活動実績(条例decree案などの対策案を含む)が取りまとめられ、公開される	指標3:連絡会議(活動3-6参照)で共有した特定の地方支局の経験をもとに、他の地方支局の程券をデータ評価に基づく対策案の作成や研修、意識啓発活動が始まる
アウトブット4: 環境庁コミュニケーション・住民啓 は 発局環境啓発部が、地方自治体・ 事業者・NGO・市民への意識啓発・ 活動を行う能力が向上したか? を	プロジェクト目標	環境庁の環境汚染への対処能力 (環境保全対策の提言能力及び研修・意識啓発活動実施能力)が向上する			
			達成状プロジェク。		

2.実施プロセス(IMPLEMENTATION PROCESS)

調査項目	調査小項目	調査の視点/調査事項	必要なデータ	<b>传報源</b>	調査手法
	活動実施状況			ブログレスレポート、業務完了報告書 エジブト側CP、ブロジェクト専門家 JICAエジブト事務所	資料レビュー 質問票、聞き取り ワークショップ
	技術移転		各分野における技術移転の方法、内容 技術移転対象者の数と背景	プログレスレポート、業務完了報告書 エジブト側CP、プロジェクト専門家 JICAエジプト事務所	資料レビュー 質問票、聞き取り
	モニタリング	、どのような頻度で実施、その結果が、	モニタリングの仕組み、計画の修正内容、手法(戦略)の見直し、フィードバックの体制	プログレスレポート、業務完了報告書運営指導調査報告書エジプト側CP、プロジェクト専門家JICAエジプト事門家JICAエジプト事務所	資本ファュー 河田県、国本民 いままま
	意思決定プロセス	活動の変更、人員・地域の選定等にかかる決定はどのようなプロセスでなされているのか?	どのようなプロセスでなされているの「意思決定のプロセス、それに起因する問題点	プログレスレポート、業務売了報告書エジプト側CP、プロジェクト専門家JICAエジプト事務所	資料レビュー 質問票、聞き取り
		ケーション(協議、連絡の頻度、内容、FBの方法)は -	コミュニケーションの頻度、方法、計画変更時の対応状況、協力内容	プロジェクト専門家 JICAエジプト事務所、JICA本部	質問票、聞き取り
		ン、環境庁上層部とのコミュニケーション)	会議開催、会議運営状況、報告・FBの仕組み、 計画変更時の対応状況、協力内容	プロジェクト専門家、エジプト側CP JICAエジプト事務所、JICA本部	質問票、聞き取りワークショップ
実施プロ4	関係者との関わり方	ブロジェクト内のコミュニケーションの仕組み 一日本人専門家間、 一日本人専門家<->エジブト側CP	コミュニケーションの頻度、方法、計画変更時の対応状況、 共同作業時間、頻度 共同で取り組む課題の解決方法	エジブト側CP、プロジェクト専門家 JICAエジブト事務所	質問票、聞き取り
ч К	(\frac{1}{2}	コギュニケーションの問題	語学、習慣等に関する問題はないか? その対策はとっているか?	エジブト側CP、プロジェクト専門家 JICAエジプト事務所	質問票、聞き取り
		効果的に行われているが?	コミュニケーションの頻度、方法、計画変更時の対応状況、協力内容	プロジェクト専門家、エジブト側CP NRO等 JICAエジブト事務所、JICA本部	質問票、聞き取り
		:ユニケーションはどうであるか?	活動への参加状況、コミュニケー・ションの頻度、 方法、内容	プロジェグト専門家、エジブト側GP、EMU、 産業界等 JICAエジブト事務所、JICA本部	質問票、聞き取り
	器襲(オーナー ツップ)	含いやプロジェクトに対する	プロジェクトに対する期待 プロジェケトへの貢献度合い、プロジェクトからの 影響の認識	エジブト側CP、プロジェクト専門家 JICAエジブト事務所	質問票、聞き取り
	٥	いるか?	CPの可配管状況 CPのプロジェクト活動参加状況	エジブト側CP、プロジェクト専門家 JICAエジブト事務所	質問票、聞き取り
	5	機能しているか?	WG/CCの活動計画、実施状況	エジブト側CP、プロジェクト専門家 JICAエジブト事務所	類問票、聞き取り ワークショップ
	その他	その他、プロジェクトの実施過程で生じている問題はあるか? その原因は何か?	これまで提示された問題点と原因	エジブト側CP、プロジェクト専門家 JICAエジブト事務所	質問票、聞き取り ワークショップ
		A LAACT			

## エジプト国地域環境管理能力向上プロジェクト中間評価調査

評価グリッド

3.妥当性 (RELEVANCE) プロジェクトの実施は妥当であるか?

資料レビュー 質問票、聞き取り 質問票、聞き取り 調査手法 資料レビュー 聞き取り 事前評価報告書、無償資金協力、 前案件(環境モニタリングセンタープロジェク 開き取り ト)の報告書 CD、専門家 資料レバュー 関本取り 間取り 資料レビュー 資料レビュー 資料レビュー 資料レドュー 間取り 聞取り 事前評価報告書 国家環境活動計画(2002-2017) 第5次国家経済社会開発計画 5カ年環境活動計画(2002-2007) エジプト側CP, JICAエジプト事務所 プログレスレポード、業務完了報告書 運営指導調査報告書 CP、専門家、JICAエジプト事務所 事前評価報告書 国家環境活動計画(2002-2017) 第5次国家経済社会開発計画 5ヵ年環境活動計画(2002-2007) エジプト側CP, JICAエジプト事務所 対エジプト国別援助計画(案) JICA国別事業実施計画 JICAエジプト事務所 事前評価報告書 専門家 事前評価報告書 専門家 事前評価報告書 專門家 現地既存・日本のノウハウの活用状況、現地の 状況に適した協力形態、協力方法の選択ができているか 政策、経済、社会などの変化を示す情報 ターゲットグループ選定のプロセス エジプト国の環境セクターの課題 エジプト国政府の環境行政の政策 エジプト国の環境セクターの課題 エジプト国の環境行政の現状 必要なデータ 日本の技術を用いた指導実績 エジプト国の開発政策、計画 実施機関の選定プロセス 日本の援助政策 プロジェクトはエジブト国の環境分野の開発課題に対する効果を挙げる戦略として適切 か?(アプローチ、対象地域の選定、他ドナーとの援助協調による相乗効果 等) 事前評価以降、プロジェクトを取り巻く環境(政治、経済、社会)の変化はないか? 日本の技術の優位性はあるか?(日本の経験を活かせているか?) 日本の援助政策・JICA国別事業実施計画との整合性はあるか? |手段としての適切||ターゲットグループの選定は適切か?(対象、規模、男女比等) |性 調査の視点/調査事項 エジプト国対象地域・社会のニーズに合致しているか? ターゲットグループのニーズに合致しているか エジプト国の開発政策との整合性はあるか? 事業実施機関の選定は適切か? 調査小項目 必要性 その右 優先度 調查項目 附割和

4.有効性 (EFFECTIVENESS) プロジェクトの実施により、期待される効果が発現するか?

調査項目	調査小項目	調査の視点/調査事項	必要なデータ	情報源	調查手法
	プロジェクト目標 の達成予測	プロジェクト目標の達成の見込みはあるか?	ブロジェク目標の達成度合い	プログレスレポート、業務完了報告書 専門家、CP	聞き取り、協議 質問票
		アウトブット実施による結果としてもたらされているか	プロジェクト目標とアウトブットの関連	プログレスレポート、業務完了報告書専門家、CP	資料レビュー 聞き取り
—————————————————————————————————————		4つのアウトブットは、プロジェクト目標を達成するために充分であるか? 	プロジェクト目標とアウトブットの関連	プログレスレポート、業務完了報告書 専門家、CP	資料レビュー開き取り
<u>+</u>	因果関係	アウトブットからブロジェクト目標に至るまでの外部条件は現時点においても正しいか?   外部条件の影響    外部条件が潜たされる可能性は高いか?	外部条件の影響	プログレスレポート、業務完了報告書 専門家、CP, JICAエジプト事務所	資料レビュー 聞き取り、協議
		プロジェクト目標の達成を阻害する要因はあるか?	旧害・貢献要因の事例	プログレスレポート、業務完了報告書専門家、CP、JICAエジブト事務所	資料レビュー 聞き取り、質問票

[PAGE 4 of 7]

5効率性(EFFICIENCY) プロジェクトは効率的に実施されているか?

調查項目	調査小項目	調査の視点/調査事項	必要なデータ	情報源	調査手法
			各アウトブットの達成状況	専門家、CP, JICAエジプト事務所	質問票、聞き取り、 ワークショップ、協議
	成度		アウトプットの達成状況	専門家、CP, JICAエジプト事務所	聞き取り、ワーク ショップ、質問票、協 叢
			活動実績、アウトブットの達成状況	専門家、CP, JICAエジプト事務所	引取り 協議
	因果関係	ۍ بر ا	投入実績、アウトブットの達成状況	専門家、CP, JICAエジプト事務所	聞き取り 協議
效率		点においても正しいか?	外部条件 アウトブットの達成状況、活動実績、投入実績	専門家、CP, JIGAエジプト事務所	質問票、聞き取り協議
-#	1	の投入がタイミングよく実施された	投入実績 プロジェクトの実施状況	専門家、CP, JIGAエジプト事務所	質問票、聞き取り協議
		ر. ر	問題発生時の対応、解決策	専門家、CP、JICAエジプト事務所	質問票、聞き取り協議
	プロジェクトの 運営管理体制	プロジェクトの運営体制はプロジェクト活動推進に効果的になされているか?	プロジェクト間の会議議事録	専門家、CP、JICAエジブド事務所	質問票、聞き取り 協議
	- その他	他のブロジェクトの教訓は生かされているか?	前案件の提言、教訓他国での類似案件での提言、教訓	事削調査報告書 削業件(環境モニタリングセンター)の報告 書 専門家、JICAエジプト事務所	資本ファコー国を扱う

8.インパクト(IMPACT)プロジェクト実施により波及効果はあるか?

序	調査項目	調査小項目	調査の視点/調査事項	必要なデータ	· 一种	は出かい
上位目標とする要因		上位目標の達成 見込み	上位目標は、プロジェクトの効果と して発現が見込まれるか? (事後評価時点での検証が可能 か?)	様正案(暫定案) 「環境庁がエジプトの公的セクター及び民間セク」: 各環境課題に対処するにあたり、ERA/RBO ターにとって環境管理公野での信頼できる支援機関 と各県のEMUの責任・役割分担が明示される であると認識される 2. 環境管理に関する適切な規制・条例が策定される。 3. 環境管理に関する適切な規制・条例が策定される。 3. 関係省庁で環境管理に関する規則、ガイドライン。3. 事業者及び市民の環境意識が向上する 4. 毒業者及び市民の環境意識が向上する 5. 環境庁の環境を発活動により、コミュニティレベル部門 (EMUs)の協力による環境を発活動により、コミュニティレベル部門 (EMUs)の協力による環境を発活動により、コミュニティレベル部門 (EMUs)の協力による環境を発活動により、コミュニティレベル部門 (EMUs)の協力による環境を発活動により、コミュニティレベル部門 (EMUs)の協力による環境を発活動が開始される	専門家、CP, JICAエジプト事務所	質問票、聞き取り協議、関き取り
上位目標とプロジェクト目標は第 プロジェグトのロシック、外部条件の影響、				該当する事例の確認 はいまま はいまま はいまま はいま はいま はいま はいま はいま はいま		聞き取り 協議
	- \square	因果関係		プロジェクトのロジック、外部条件の影響、 貢献・阻害要因		聞き取り 協議
経済面への影響	. V T			該当する事例の確認	専門家、CP, JICAエジプト事務所	質問票、聞き取り 協議
ジェンダー・人権、貧富(社会的弱 該当する事例の確認       者層)など社会・文化的側面への 者層)など社会・文化的側面への     該当する事例の確認       環境保護への影響     該当する事例の確認       第1への影響     専門家、CP, JICAエジプト事務所       本プロジェケト実施によるマイナス     該当する事例の確認       本プロジェケト実施によるマイナス     該当する事例の確認       本プロジェケトを検減する対策はとられているか?     本プロジェクトを検減する対策はとられているか?       もか?     本プロジェクトを検減する対策はとられているか?				該当する事例の確認		質問票、聞き取り 協議
環境保護への影響 該当する事例の確認 環境分野の技術面での変革(革 該当する事例の確認 新)への影響 本プロジェケト実施によるマイナス 数当する事例の確認 を対きではあるか? それを軽減する対策はとられてい も内家、CP, JICAエジプト事務所 専門家、CP, JICAエジプト事務所 を対きを表するが変によるアイナス を対象にあるかま をおきを対象はよられてい も内家、CP, JICAエジプト事務所 を対すを表対をはたられてい も内容、CP, JICAエジプト事務所 を対すを表対をはたられてい も内容、CP, JICAエジプト事務所 を対すを表対を対象によられてい も内容、CP, JICAエジプト事務所 を対すを表対を対象によられてい も内容、CP, JICAエジプト事務所 を対すを表対を対象によられてい を対すを表対を対象によられてい を対すを表対を対象によられてい を対すを表述する対象によられてい を対すを表述する対象によられてい を対すを表述する対象によられてい を対する を対象 を対する を対象		1. 1. 4. 04. 4. 1.		該当する事例の確認	専門家、CP, JICAエジプト事務所	質問票、聞き取り 協議
族当する事例の確認 数当する事例の確認 専門家、CP, JICAエジプト事務所		石芸権済状党への波及効果		当する事例の	専門家、CP, JICAエジプト事務所	質問票、聞き取り 協議
5当する事例の確認 専門家、CP, JICAエジプト事務所			環境分野の技術面での変革(革 新)への影響	亥当する事例の	専門家、CP, JICAエジプト事務所	質問票、聞き取り 協議
			本プロジェケト美施によるマイナス の影響はあるか? それを軽減する対策はとられてい るか?	女当する事例の	専門家、CP, JICAエジプト事務所	<u>當問票、間き取り</u> 協議

評価グリッド

7.自立発展性(SUSTAINABILITY) プロジェクトの効果は、プロジェクト終了後も維続・発展していくか?

調香手法		開き取り   協議	<b>日務所</b> 開き取り 協議	質問票、聞き取り 「上記」 「お話」	間 = 取り 協議 協議	質問票、聞き取り 協議 協議		質問票、聞き取り 協議 協議	算問票、聞き取り 協議 協議	聞き取り	質問票、聞き取り協議	<b>育務所</b> 質問票、聞き取り 協議	<b>育務所</b> 聞き取り 協議	自務所 聞き取り 協議	
情報源	エジプト環境庁担当者 専門家、CP, JICAエジプト事務所	エジプト環境庁担当者 専門家、CP, JICAエジプト事務所	中 専門家、CP, JICAエジプト事務所	エジプト環境庁担当者 専門象、CP, JICAエジプト事務所	エジプト環境庁担当者 専門家、CP, JICAエジプト事務所	エジプト環境庁担当者 ・ 専門家、CP, JICAエジプト事務所	エジプト環境庁担当者 み 専門家、CP, JICAエジプト事務所	エジブト環境庁担当者 中門家、CP, JICAエジブト事務所	エジプト環境庁担当者 専門家、CP、JICAエジプト事務所	エジプト環境庁担当者	エジプト環境庁担当者 専門家、CP、産業界	専門家、CP, JICAエジプト事務所	専門家、CP, JICAエジブト事務所	専門家、CP, JICAエジプト事務所	出級単元がHVSI OO 名田里
必要なデータ	エジプト政府の政策	環境分野の関連法案、規制	エジプト政府の方針、プロジェクトの今後の方針	環境庁の今後の方針 (環境セクターでの位置づけ、予算割り当て等)	環境庁の今後の方針 (環境セクターでの位置づけ、予算割り当て等)	環境庁の今後の方針 (環境セクターでの位置づけ、人員体制、役割分担、技術レベル等)	環境庁の今後の方針 (環境セクターでの位置づけ、人員体制、役割分担、技術レベル等)	環境庁の今後の方針 (環境セクターでの位置づけ、人員体制、役割分担、技術レベル等)	環境庁の今後の方針 (環境セクターでの位置づけ、人員体制、役割分担、技術レベル等)	エジプト政府の方針	CPの能力、技術力 これまでの活動状況	CPの能力、技術力 これまでの活動状況、機材整備状況	阻害要因の事例 促進要因の事例	阻害要因の事例	電子形圧を発症
調査の視点/調査事項	環境セクターにおけるエジプト政府の政策支援は協力終了後も継続するか?	環境分野の関連規制、法制度は整備されているか?整備される予定か?	本プロジェクトの効果がエジプト全土に普及する取り組みが確保されているか? (大気汚染、水質汚染、有害化学物質管理、生産工程管理の分野で本プロジェクトによる成果が環境庁・RBOによって他の地域(RBO)に指導、普及させるような体制ができるか?)	協力終了後も効果をあげていくための活動を実施するに足る環境庁/RBOの組織能力 は十分か?(人材配置、意思決定プロセス等)	環境庁/RBOのプロジェクト実施による効果を維持するためのオーナーシップは十分に確保されているか?	大気汚染:環境庁/GC, Tanta, Mansura RBO が主軸となって、大気汚染問題に対応していくことができるようになるか? (そのためには、何か必要か?)	水質汚染(油汚染):環境庁/Suez RBOが主軸となって、油汚染問題に対処していくことができるようになるか?(そのためには何が必要か?)	有害化学物質:環境庁/GC RBOが主軸となって 有害化学物質問題に対処していくごとができるようになるか?(そのためには何が必要か?)	生産工程管理・環境庁/Alex RBOが主軸となって、生産工程管理問題に対処していくことができるようになるか?(そのためには何が必要か?)	現在、必要な予算が確保されているか?また今後、環境分野の予算が増える可能性は どの程度あるか?	プロジェクトで活用される技術移転の手法は受け入れられつつあるか (大気汚染、油汚染、有害化学物質、生産工程の分野での技術レベルの適切性、社会的・慣習的適切性)	賞機材の維持管理は適切におこなわれているか?(CPが単独でできるようになるか?)	社会的弱者層(貧困、女性等)への配慮不足により、本プロジェケト実施による効果を妨  げる可能性はないか?  または、本プロジェケト実施による相乗効果の可能性は?		それぞれの環境課題分野でのプロジェクトの効果の総結発展を加寧する要因はある
調査小項目		敬策·制度面					組織・財政面				技	I E	社会、文化・環境	鱼	

プロジェクトデザインマトリックス (PDM1) プロジェクト名、エジプト国地域環境管理能力向上プロジェクト 実活機能:エジナ機場所 ターゲットグループ、エジプト機場所・地方支配

楽施機関:エジプト機場庁 ターゲットグループ:エジプト機様庁、地方支配	対象地域:ネプロジェクト対象の地方支配が管轄する地域		<u>プロジェクト類間:2005年11月~2008年10月</u> 改訂日:2007年7月3日
プロジェクトの単独	##	指揮デークス手手段	小都集件
方自治体、事業者、NGO なる	061 環境庁がエジブトの公的セクター及び民間セクターにとって環境管理分野での信頼できる 支援機関であると認識される	ナーベイ、質問集行いる簡素	
	0G2 プロジェクトによって提案された対策の実施を促進する条例が定められる	条例	
	063 プロジェクトによって遊業された対策の美権を促進する規定やガイドランが関連省庁によって会布され、実権される	<b>张</b> 应	
	0G4 事業者及び市民の環境意識が向上する	質問紙による調査	
	環境庁EEAA-2080が、他の外部機関と協力により、コミュニティレベルでの新しい環境改善G35 活動を開始する	EEAA/RBOの記録	
78次统势目集			
環境庁の環境汚染への対処能力(環境保全対策の提言能力及び研	PP1 環境汚染、有害物質に関する効果的な対策が策定される	プロジェクトの記録	*プロジェクト終了後もエジプト政府からの資金、政策面での支援が継続する
14・感媒管発活動実施能力)が同上する	Pp2 地方支局の活動から得られたデータや情報、活動実績(条例decree繁などの対策策を含むが形象りまとかられ、公開される	SOE、その他の出版物	*環境活動薬艦に関し、政府、地方自治体、事業者、 受益者が協力的である *環境セクターにおけるエジプト政府の方針が大幅に変
	pp3 調整会職(アウトブット8参照)で共有した情報や研修経験をもとに、他の地方支局でも新しい、活動が開始される	プロジェクトの記録	更されない *EBAAが立業した対策の実施にあたって、他の外部級関や産業界がネガティアな対応をとらない。
2.2			
1 <mgi:大克治教>   超液作EOSだよだRBOのEODがID名   ケルータを選択  + 6 </mgi:大克治教>	1-1 対象となる全9県のエネルギー消費量の60%が補捉できている	EEAA/RBOs の記録、報告書	*他のドナー支援によるプロジェクトの進捗が本プロジェイル・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
汚染に対する対策が提案できるようになる	1-2 発生療インペントリ及び排出負荷の分析に基めく報告書が選定された地域において発行される。 れる	BEAA/RBOs の記録、報告書	*環境庁EBAA/RBOの他部署(本プロジェクトに関与し
	1-3 収集されたゲータの分析に基づき、内部的なアポートが作成される	EEAA/RBOs の記録、報告書	こうよう哲権が今人ロンエンドに限力的である
	EMA/E5AAのMM5/CAMAXが検証され、5つのシナリオ(現状1ケース、社会経済開発計画 1-4 に基づくRAU条件での2012年25017年の2 ケース、社会経済開発計画と異なる経済成長を 想定した2012年22017年の2ケース)が妥当な構度で計算されている	プロジェクトの記録	
	BEAA, GCRBO, Tanta RBO, Mansura RBOのスタップのうち少なくとも10名が対策立案に 1-5 必要な4種の業務(固定発生源、移動発生源、面発生源、及び必要費用複算)について習 得する	プロジェクトの記録	
	1-6 右気質に関する対策立業を共有する目的で2008年8月以前に少なくと560名が参加する総 1-6 括的なワーシンsシブが開催される	プロジェクトの記録	
2 <wg2: 治汚染=""> スエズRBOが収集・評価したデータ及び情報に基づき、油汚染</wg2:>	2-1 北部スエズ楽県地域における油汚染リスタ海海のために効果的で且のスエズRBOにとって 実行可能な対策が立葉され、EBAA(本庁)の承認を得られる	プロジェクトの記録	
対する対象が提案できるようになる	- 2-2 原油や石油製品についてのフィンガーブリントのゲータベースが整備される	BEAA/RBOs の記録、報告書	
3 <cc1:有害化学物質> 環境FEQS-EMX 及びRBOのEQD-EMDが含量物質の特定、 点もできませんのよう。 ************************************</cc1:有害化学物質>	3-1 有事化学物質のモニタリング報告書が毎年発行されるとともに、報告された情報が関係者関 で盤様される	プロジェグトの記録	
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	3-2 エジプトにおける有害化学物質に関する教告書が発行される	BEAA/RBOs の記録、報告書	
	3-3 有害化学物質のサンブリング・分析による汚染源の格定、分析データの評価、有害化学物質によら7メクの特定、および対策の観光ができる訓練されたスタッフの数が増加する。	プロジェクトの記録	
	3-4 汚染物質のデータがデータペースとして整理され、BEAAおよびRBOに共有される	BEAA/RBOs の記録、報告書	
	3-5 有害物質管理のガイドラインが作成される	EEAA/RBOs の記録、報告書	

<wg3:研修実施能力向上></wg3:研修実施能力向上>	4-1 草油 中かんている かんり (ない) という (ない) といい) といい (ない)	アロジェクトの記念	_
様果FCDCEA (GDI)が色の間道影響・複製が結供した情報に またいと、関係を専門、巻きなだ動物をもといった。	ほんている はっし しこうじょう 高 ランスン にもらってきこう こうぶん マ・・・	東京 14. ペコイ	
<b>削している あれき 回っ吹き ダウ米 高いらんしょう</b>	4-2 研修が実施される	が記されていた。	
	4-3 研修への参加者による評価が新コースの作成に活かされる	プロジェクトの記録	
	4-4 研修の教材がGDTでとかまとめられる	プロジェクトの記録	
	4-5 GDJのスケップのうち6名が研修の運営管理ができるようになる(TNAの実施と結果の分析、 研修企画、実施および研修評画)	プロジェクトの記録	
<b><wg4: ************************************<="" b="" 中暦二版54節~=""></wg4:></b>	5-1 インスペクケー用のマニュアル、ガイドブックが作成され、発行される	プロジェクトの記録	
・フェント・ファンス・ファンス・アーング・日本に新した。 作業 に、上来 に基向けに生産工程改善や汚染剤減の改善物が一部級のおきまが、 静穏のおんだいたか	5-2 産業界に対し他の組織のグッドプラクティスなどの、効果的なツリーナーブログションプロセ5-2 文を紹介するたいケーが開催される	プロジェクトの記録	
	5-3 対象の産業分野において、RBOによって作成された提言の数が増加する	プロジェクトの記録	
	5-4 対象の産業分野において、アンキサンドリアRBOが発査したインスペクションレポートの質が 1-4 白ーナス	プロジェクトの記録	
		プロジェクトの記録	
8 〈WG3:意識啓磐活動〉 環境庁GDME&E 及び関係RBOが、地方自治体・事業者・NGO・ 市民への意識啓発活動を行う数力が向上する	6-1 市民の療援意識のペースライン報告書が発行される	プロジェクトの記録	
	6-2 REMIPで実施された養職階発活動の回製と詳細がCDCEAに登録される	EBAA/RBOs の記錄、報告書	
	6-3 第二回聚頻意識調査の報告書が発行される	プロジェクトの記録	
	6-4 意識啓発活動参加者による評価が次の活動計画の策定に活かされる	プロジェクトの記録	
<wgb:表示機付大気監視装置> 環境庁AGD及びGDME&amp;Eが表示機付大気監視装置を利用し、</wgb:表示機付大気監視装置>	7-1 表示機付大気質監視装置が検動し、適切に維持管理される	EEAA/RBOs の記録、報告書	
市民向けの環境情報を公费できるようになる	7-2 表示機で表示する環境メッセージのコンテンン集が作成される	EEAA/RBOs の記録、報告書	
	7-3 表示機什大気觀測装置が"粜策かナッチャー"の象徴として広ぐカイロ市民に諮職される	質問紙による調査	
8 < CC2:RBO間の情報共有> 環境庁SRBA及び関係RBOが連絡会議(CC2)を通じた相互作	8-1 REMIPの活動を通して、得られた情報や経験をRBO関で共有できるセミナーが開催される	EEAA/RBOs の記録、報告書	
用によって組織的能力が向上する	RBO間の情報共有のメカニズムを確認するものとして、RBOからSRBAへの月例報告者に 8-2 CC2の活動が記載される	SRBAに対する月例報告書	
<b>游</b>	- 日本部 - 日本部	一門が大の田	
詳細は Plan of Operations (PO)を参照のこと。	7MM	1 カウンターパート人件費(98名)	*必要なカウンターパートが継続的に配置される
	〈長班専門教〉 <街塘専門教>	2 施設・土地等手配(オフィススペース)	*適切な予算(機材維持管理費を含む)が継続的に確保される
	2 機材供与 約7,500万円	ローカルコスト(C/Pの出張旅費、乗城庁所有の機。3 材、機材の保守・管理・修理・修理・修理・修理・移動費用、ラボで使用する 試験類を合む	
	3 CP研修		
	4. 联档案務費·阻挡再發託費		

¢行計画(PO

		EG 2005	EG 2006	F.	EG 2007	EG 200	g	
	加鲁洛田	JP 200	JP 2006	JP 2007		JP 2008		相当事
		III IV	4-6 7-9 10-12 1-3	4-6 7-9 10-12	≥ ?	1 4-6 7-9	=  2	
アウトプッ 環境庁EQ	アウトブット1 <wg1:大気汚染> 環境庁EQSおよびRBOのEQDが収集したデータを解析し、大気汚染に対する対策が提案できるようになる</wg1:大気汚染>							
]	The state of the s			-		-		
<del>-</del>	発生源に関するインベントリを作成し排出物質の汚染負荷を分析する能力が向上する							
1-1-1	国定発生源のインベントリーサーベイを実施する						∢ Ω	AQD,GC RBO, Tanta RBO, Mansura RBO
1-1-2	移動発生源の人ンベンドノーサーベイを実施する						∢0	AQD,GC RBO, Tanta
1-1-3	現在の稲藁燃焼パターンに関するサーベイを実施する						( ≪ 0	AOD,GC RBO, Tanta
1-1-4	その他の面発生類のインベンドリーサーベイを実施する						4 0	AQD,GC RBO, Tanta
1-1-5	煤煙湖定を実施する		<b>—</b>			, , , , , , , , , , , , , , , , , , ,	<u> </u>	AQD, CCC
1-1-6	稲薬燃焼実験を実施する						A	Aab, ccc
1-1-7	抹出係数を調査・検証する		((((t)))),, (((t)))				V ™	AQD,GC RBO, Tanta RBO, Mansura RBO
1-2	大気質に関するモニタリングデータ等を公式に取りまとめる能力が向上する							
1-2-1	過去(2年間)のモニタリング配験を収集する						<	AQD
1-2-2	鉛、EPAPプログラムで測定されたデータを収集する			A CALLED TO THE CALL OF THE CA			∢	AQD,CCC
5	ナイルデルタ地域やグレーターカイロ圏においてパッシブサンプラーを活用して、重汚染地域 の大気質モニタリングを実施する	6		77.				
1-3-1	グレーターカイロ、タンタ、マンスーラそれぞれのRBOIこおいて四季と黒煙発生期間に一度、パッシブサンブリング測定を実施する						< ⊢ ¤	AGD,CCC, GC RBO, Tanta RBO, Mansura RBO
4	終括的環境状況を解析・評価する手法が習得される							
1-4-1	活動項目1-2-1,1-2-2 and 1-3-1において測定された硫黄酸化物(SOx)、窒素酸化物(NOx)、総浮遊粒子状物質(TSP)の測定データを分析する				:		V ⊢ Ω	AQD,CCC, GC RBO, Tanta RBO, Mansura RBO
1-5	大気汚染対策立案の手法を開発する							
1-5-1	総括的な汚染負荷分析を実施する。						< F &	AOD, CCC, GC RBO, Tanta RBO, Mansura RBO
1-5-2	シミュレーションモデルを開発する					***************************************	∢⊢ Ľ	AQD,CCC, GC RBO, Tanta RBO, Mansura RBO
9.	大気汚染対策(薬)を提言するためのOJTを実施する			-				
1-6-1	対策策定手法に関するOJTを実施する						< ⊢ û	AQD,CCC, GC RBO, Tanta RBO, Mansura RBO
1-6-2	大気汚染対策立案を総括するOJTおよびワークショップを実施する			The state of the s		William Willia	▼⊢∝	AQD,CCC, GC RBO, Tanta RBO, Mansura RBO

		EG 2005			EG 2006		L	EG 2007	200		EG 2008	
	四清音號	12.50		JP 2006			JP 2007	7007			JP 2008	<b>叶</b>
		= 1,7	- 4	= 0	≥ ;	- ;	= ,	= 5	≥;	+	= 5	
アウトブット2: <wg2: 油汚染=""></wg2:>	1.	4	2	1	4	┨	e./	21-01	?	0-4	-	
スエズRBOが収集・評価したデ	集・降価したデータ及び情報に基づき、油汚染に対する対策が提案できるようになる				-							
2-1	スエズ地域で沿汚染リスク低減のための対策提言の017を実施する						·					
2-1-1 (Step 1)	<ワーキンググループの設置> ・油汚染プログラムのワーキンググループ2を編成する ・ワーキンググループ2の基本的な活動方針、戦略を検討する		į.									Suez RBO
2-1-2 (Step 2)	<ペースラインデータの収集> スエズ地域の油汚染問題の現状に関する情報を収集し、それらをグルーブメンバーと共有する	 								i		Suez RBO
2-1-3 (Step 3)	〈油汚染問題の現状分析〉 現行の油汚染管理に関する問題点を特定する	<i>;</i>				:				<u> </u>	!	Suez RBO
2-1-4 (Step 4)	<油流出源に関わるインペントリ作成>インペントリーを作成し、湖汚染源を特定する											Suez RBO
2-1-5 (Step 9-a & 9-b)	<ul><li><a href="https://www.hebs.com/">www.hebs.com/</a></li><li><a href="https://www.hebs.com/">www.hebs.com/</a></li><li><a href="https://www.hebs.com/">www.hebs.com/</a></li><li><a href="https://www.hebs.com/">www.hebs.com/</a></li><li><a href="https://www.hebs.com/">www.hebs.com/</a></li></ul> <li><a href="https://www.hebs.com/">www.hebs.com/</a></li>						Step 9-a			Step 9-b		Suez RBO
2-1-6 (Step 10)	<行政への接言を含む報告書作成> スエズ地域における総合的な抽汚染対策を提言する											Suez RBO
2-1-7 (Step 11)	<実地研修結果のセミナーでの報告> セミナーで対策策定とフィンガーブリント分析のOJT結果を公表する						:				i	Suez RBO
2-1-8 (Step 12)	<データブックの取りまとが、公開及WG2の活動結果の報告> ・WG2の活動で得た結果をデータブックにとりまとめる ・WG2活動の結果を環境自書に掲載しつつ公表する							<u>.                                    </u>				Suez RBO
2-2	カフィンガーブリント分析のOJTを行う					,						
2-2-1 (Step 5)	<部流出源特定シスチムの検討とフィンガーブリント分析研修の計画策定 (1505)> ・フィンガーブリント分析に関する研修計画を作成する ・ 油流出の発生源を特定するシステムを検討する(1505)。		,									Suez RBO
2-2-2 (Step 6)	<フィンガーブリントデータ収集の検討> フィンガーブリントデータに関するデータ収集方法を検討する											Suez RBO
2-2-3 (Step 7-a & 7-b)	<フィンガーブリント分析技術トレーニング> ・フィンガーブリント分析おおよび油汚染源特定のデータ解析に関する第一次技術研修を実施する する ・第一次技術研修を補完するための第2次技術研修を実施する ・第一次技術研修を補完するための第2次技術研修を実施する。	-	S	Step 7-a			Step 7-b					Suez RBO
2-2-4 (Step 8-a & 8-b)	ペコインガーブリントデータ分析実施・結果の解析> ・分析対象の原油を収集する ・原油のフィンガーブリント分格を実施し、データペースを作成する			Ste	Step 8-e			Step 8-b		!		Suez RBO

実行計画(PO)

		EG 2005	EG 2006	EG 2007	EG 2008	
		200	2006	JP 2007	JP 2008	岩川県
		= 1 14,42	7.0 40.49 4.3	1 H III IV	= 4	
アウトプット 番帯中EOs	アウトブット 3: <cc1:右害物質> 静寺中FC6:EMS DifDDの中Cn. EMDiff 安藤の女は、 ディッジをおの事で キャッジェナル・ション</cc1:右害物質>	0-4   0-1   71-11	\$-1   ZI-01	7 5	<u></u>	
1 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 FM3なCVBOVED FMD7.17 TAを見られた、1 Fを及り「我の物体、なりでしょうを見らり、人と呼ばれる。 こうかんしょう	宣か来 高 にいもよ	J ~′4∕6			
3.1	環境庁環境管理局有害物質部上関係者の連絡会議を設立する					HSMD, CCC, GC RBO, etc.
3-2 檢	有害化学物質の特定、インベントリ調査、モニタリング及び処理に関わる調査を実施するため、有害化学物質の情報を収集する					
3-2-1	PCBに関する既存の調査結果やモニタリングデータを収集する					HSMD, CCC, GC RB0, etc.
3-2-2	PAHsic関する既存の調査結果やモニタリングデータを収集する					HSMD, CCC, GC RBO, etc.
3-2-3	重金属 (Cd, Cr)/二関する既存の調査結果やモニタリングデータを収集する					HSMD, CCC, GC RBO, etc.
3-3 1	インベントリを作成し、潜在的な汚染地域を特定するための調査を実施する					
3-3-1	PCBに関する調査を実施する					HSMD, CCC, GC RBO, etc.
3-3-2	PAHsに関する調査を実施する	-				HSMD, CCC, GC RBO, etc.
3-3-3	重金属 (Cd, Cr)に関する調査を実施する				La constitución de la constituci	HSMD, CCC, GC RBO, etc.
4. ♣0	有害化学物質のサンプリング・分析、モニタリングデータの収集および解析、対策の提案を行うためのOJTを実施する	in the second				
3-4-1	PCBに関してOJTを実施する			A CONTRACTOR OF THE CONTRACTOR		HSMD, CCC, GC RBO, etc.
3-4-2	PAHsに関してOJTを実施する					HSMD, CCC, GC RBO, etc.
3-5	有害化学物質管理に関わる他省庁、研究機関、大学等と連絡会議を通じ、情報を共有する					
3-5-1	PCBの調査に関するレポートをまとめ、情報を共有する					HSMD, CCC, GC RBO, etc.
3-5-2	PAHsの調査に関するレポートをまとめ、情報を共有する					HSMD, CCC, GC RBO, etc.
3-5-3	重金属 (Cd, Cr) の調査に関するレポートをまとめ、情報を共有する					HSMD, CCC, GC RBO, etc.
3-6	有害化学物質のモニタリングや有害化学物質管理に関わる利用可能な最善技術に係るセミナーを実施 する					
3-6-1	PCB汚染に関する現状、汚染添とその対策に関して関係者と検討するセミナーを開催する					HSMD, CCC, GC RBO, etc.
3-6-2	PAH汚染に関する現状、汚染源とその対策に関して関係者と検討するセミナーを開催する					HSMD, CCC, GC RBO, etc.
3-6-3	重金属(Cd, Cr)汚染に関する現状、汚染源とその対策に関して関係者と検討するセミナーを開催する					HSMD, CCC, GC RBO, etc.

9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	EG 2005	S		EG 2006	900			EG 2007		2	EG 2008	
	JP 2005		JP 2006	900			JP 2007		_	JP 2008	8	<b>建</b>
I	AI III	-	Ξ	=	Λ	_	i	AI I	_	=	=	
	11-12 1-3	4-6	7-9	10-12	1-3	4-6	7-9 10	10-12 1-3	3-4-6	1-9	10	
3-7 エジブト国主催によるセミナー(アラブ諸国の有害化学物質の環境モニタリング)を実施する												HSMD, CCC, GC RBO, etc.
3-8 PCB, PAHs, 望金属(Cd, Cr)のデータペースを構築する												
3-8-1 PBCのデータベースにデータを入力する							·	<u> </u>	:		_	HSMD, CCC, GC RBO, etc.
3-8-2 PAHのデータベースにデータを入力する								_				HSMD, CCC, GC RBO, etc.
3-8-3 重金属(Cd, Gr)のデータペースにデータを入力する								_				HSMD, CCC, GC RBO, etc.
3-9 有害化学物質管理(リスクの特定と制度の強化に関する提言も含めて)のガイドラインを作成する					<del> </del>		+-		-			

	EG 2005	EG 2006	901	. EG	EG 2007	EG 2008	
田野福班	JP 2005	JP 2006	  - 	JP 2007		JP 2008	開発電
	11.12 1.3 4.6	7.9		7.43	1 M	= -	
アウトプット4: <wg3:研修実施能力向上> 環境庁CDCEA (GDT)が他の関連部署・機関が提供した情報に基づいて、研修を計画、設計及び実施できるようになる</wg3:研修実施能力向上>	及び実施できるように	,	-	1	-	2	
4-1 EEAAおよびRBOのすべての購員研修を登録する							
4-1-1 既存の研修をレビューする Step-1							General Department of Training (GDT)
4-2 EEAAの関連都局ならびにRBOとのトレーニングニーズに関して検討し、まとめる					E .		
4-2-1 環境庁内各部門のマンデートと必要なスキルをレビューする Step-2							General Department of Training (GDT)
4-2-2 Step-3 研修のニーズ分析(TNA)を実施する							General Department of Training (GDT)
4-3 環境庁及びRBOの職員が受講すべき特定の研修を助言する							
プロジェクトの他の活動に対応して、研修を監理し、実行する。研修の教材を作成し、集積 4-4 する							
4-4-1 Step-4 REMIP下の研修を実践する		┼					General Department of Training (GDT)
44-2 研修左企画する Step-5 研修左企画する							General Department of Training (GDT)
44-3 Step-6 研修に関するデータベース構築を検討する							General Department of Training (GDT)
4-4-4 研修企画案にそって研修を実施する Step-7							General Department of Training (GDT)
4-5 研修参加者による評価を次の研修コースに反映するフィードバックシステムを構築する							
4-5-1 研修計画を改訂する Step-8							General Department of Training (GDT)
4-5-2 研修を継続する Step-9 研修を継続する							General Department of Training (GDT)
研修の運営管理の一連の手続きを完成す							General Department of Training (GDT)

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	r	-	JP 2006		-	֓֞֞֜֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֜֟֜֓֓֓֓֓֓֓֓֓֓֓֟֜֜֓֓֓֓֡֓֡֜֜֜֓֓֡֓֡֓֡֡֡֡֡֓֜֜֡֡֡֡֓֜֜֡֡֡֡֓֜֜֡֡֡֡֡֜֜֡֡֜֜֜֜֡֡֜֜֜֜֜֜	2007			JF 2008		拉当他
	11.12	- 4-6	7-9 10-12	12 - 3	4-6	= 6.7	= 10-12	≥ ?	- 9	= 62	=  ₽	1 
アウトブット 6: <wg4:生産工程改善> シェナユンビリアのことには enter ナー・ナッシュ ナギニー・</wg4:生産工程改善>			4	1	┨	-	1		:			
・7 ノトン、KBOか火来・評価したイータ及び育物にあつき、産業界、工場同けに生産工程改善や汚染削減の改善素が提案できるようになる	の改善案が提案で	きるように	456 456									
特定の産業に係る地方支局スタッフ向けの工場立入株査マニュアル・ガイドラインの作成のため、及び工場を 5-1 対象とした汚染門減成功事例セミナー開催のため、工業汚染対策技術 (プロセス改善含む)に関する情報を収 集する												
5-1-1 生産工程改善のためのワーキンググループ(WG4)を設立する					-	ļ .						Alex RBO
5-1-2 アレキサンドリア地区の工業セクター全般に係る基礎情報の収集、及び石油関連工業、石油化学工業、セメントエ業のインベントリー調査を行い、報告書にとりまとめる									7			Alex RBO
5-1-3 石油関連工業、石油化学工業およびセグント工業に関し、汚染対策及び生産工程改善に係るトレーニング・ 技術指導を実施する												Alex RBO
5-14 工場による汚染防止技術の導入状況の把握と、汚染対策の新規導入計画に伴う改善楽提言に必要な情報 収集を目的としたインタビューサーベイを実施する	777										,	Alex RBO
5-1-5 上記の活動で得られた成功事例や産業界に対する提言を取りまとめた報告書を作成する	14 (100	in the second se										Alex RBO
5-1-6 関係者が汚染防止技術を取り入れるように情報共有のためのセミナーを開催する		A CONTRACTOR OF THE CONTRACTOR		The state of the s								Alex RBO
(アレキサンドリア)地方支局スタッフによる工場立入検査データやプロジェクト経験を反映した、新規の立入検 5-2 査マニュアル作成のためのOJTを実施する												
5-2-1 工場立入検査に関し、アレキサンドリアRBOのインスペクター及び関連スタッフを技術指導する												Alex RBO
5-2-2 石油関連工業、石油化学工業の立入検査マニュアルを作成する												Alex RBO

実行計画(PO)

四四重型地	JP 2006 JP 2007 JP 2008
アウトプットのWinds・中部政策中は	11-12 1-3 4-6 7-9 10-12 1-3 4-6 7-9 10-12 1-3 4-8 7-9 10
イン・ハーン・NEOS・Maik d Part nam / 現場作品の表現を発送しませる。 環境庁GDME&E 及び関係RBのが、地方自治体・事業者・NGO・市民への意識啓発活動を行う能力が向上する	色力が向上する
6-1 選定した対象地域の対象グループに対し、環境意識調査を行う	
<ul><li>&lt; WG5のワークブラン(活動計画)を作成する&gt;</li><li>6-1-1 -WG5を編成する</li><li>-ワークブランのドラフトを作成し、確定する</li></ul>	GDME&E
く第一次環境意識調査を実施する> - ケーゲット地域およびターゲットグループを選定する - サーベイのTORを確定する - サーベイを実施する	GDME&E
6-2 REMIP関係者やRBOが協議し、REMIP下で実施する意識啓発活動のニーズ分析を行う	
6-2-1 意識啓発活動の対象グループ、目的、実施タイミングを特定する	GDME&E, Air Quality Dept.
6-2-2 現行の意識啓発活動をレビューする	GDMERE GDMERE
6-2-3 効果的な意識啓発活動を特定する	GDME&E
6-3 (ローカルNGOやメディアと協力しながら)RBOと連携し、REMIPの成果と関連した意識啓発活動計画を 立案する	助計画を
6-3-1 それぞれのターゲットグループに対する啓発メッセージを決める	GDME&E, Air Quality Dept,
6-3-2 環境情報の広報のための手法(メディアやネットワーク等)を選定する	GDME&E Suez RBO, Tanta RBO,
6-4 ギザインシートに関して産業界、NGO、農民、市民を対象とした関連課題の意識啓発活動を実施する。資 6-4 粋を作成しRBOに配布する	
6-4-1 意識啓発活動に必要な資料を作成する	GDIME&E Suez RBO, Alex RBO, Tanta RBO, GC RBO, Assuit RBO
6-4-2 RBOとGDME&Eが連携してREMIPの成果を活用した意識啓発活動を実施する	GDME&E Suez RBO, Alex RBO, Tanta RBO, GC RBO, Assuit RBO
6-5 RBOにおいて活動項目6-4の効果を測る第二次環境意識調査を実施する	
6-5-1 サーベイのTORを作成する	GDME&E
6-5-2 サーベイを実施する	GDME&E
6-6 ワーキンググルーブを通じて意識啓発活動に関する情報を他省庁、研究機関、大学等と共有する	NG.
6-7 活動項目6-1~6-5で得られた教諭をもとに、既存の意識啓発活動計画を改訂する	GDME&E

実行計画(PO)

		EG 2005			EG 2006	ي	F	"	FG 2007		E	FG 2008		Г
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	- 工资金银	2	_	-	H	-	,  -		_	-	- -	. =	相当部署	
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アウトプッ 環境庁A(	アウトブット 7: <wg6: 表示機付大気監視装置=""> 環境庁AQD及びGDME&amp;Eが表示機付大気監視装置を利用し、市民向けの環境情報を公表できるようになる</wg6:>	るようになる												ı
7-1	タリフール広場にリアルタイム大気監視測定局を設置する						_=						Air Quality Dept.	
7-2	カイロ市の大気汚染状況の広報を目的とした表示機を測定局に設置する									<u> </u>			Air Quality Dept.	T
7-3	AQDが表示機付リアルタイム大気質監視装置のデータの適合性を監理する												Air Quality Dept.	
7-4	AQDとGDME&Eが連携して、表示機付リアルタイム大気質監視装置を活用した意識 啓発活動を実施する												-	
7-4-1	大気モニタリングデータをレビューする						-	-					Air Quality Dept	
74-2	表示機を通して発信する大気質インデックスや環境メッセージを含むコンテンツを作成する												GDME&E	
7-4-3	表示機を通して大気質インデックスや環境メッセージを実験的に発信する												GDME&E	
447	大気質パラメーターを説明するためのパンフレット作成を含むコミュニケーションを実施する												GDME&E	i
745	実験的な情報発信から得られた結果にもとづいてコンテンツの表示内容や方法を見直す												GDME&E	
7-4-6	表示機に見直したコンテンツをインブットし、通常運転を開始する												Air Quality Dept, GDME&E	
7-4-7	カイロ市民が表示機に関してどれくらい認識しているかについてのサーベイを実施 する												GDME&E	
7-5	活動項目7-1 ~7-4に関連して、OJTおよびその他の研修を実施する									•	•	•	GDME&E	
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実行計画(PO)

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	11-12	2	4-6	7-9 10-12	┸┛	4-6	7-9	10-12	$\vdash$	4-8	7-9 10	
アウトプット 8: <cc2: rbo間の情報共有=""> 環境庁SRBA及び関係RBOが連絡会騰(CC2)を通じた相互作用によって組織的能力が向上する</cc2:>												
8-1 RBO間での連絡会議を設立する										ļ		
					-					+		SRBA, 4 Leading
8-1-1 ・グルーブメンバーを選定する Stop 1 ・キックオフミーティングを開催する		Ī	┪									RBOs, 40ther RBOs, Key Dents
-CC2のメカニズムに関しての基本的な方針を検討する												of HQ, GDT
8-1-2 <情報共有の必要性に関する理解促進> Step 2 - AEMIPにおける技術分野の課題に関連したRBOの能力を把握する - 基本的なCC2のメカニズムを確認する												SRBA
8-2 RBO間のOJT経験共有化セミナーをRBO及び関連技術部局と共同で実施する												
<rbo間のremipiこおけるojt経験共有化セミナーの準備と実施></rbo間のremipiこおけるojt経験共有化セミナーの準備と実施>			-	_							-	SRBA, 4 Leading
8-2-1 -経験共有化セミナーで提示する情報と課題を決定する Step 3 -リーディングRBOからのプレセンターを選定する -総験共有化セミナーを開催する					1							RBOs, 40ther RBOs, Key Depts., of HQ, GDT
8-3 活動項目8-2のセミナーのフォローアップ活動を各RBOにおいて実施する		<del>  -</del> -							<u> </u>		<u> </u>	
8-3-1 <rbo間の情報共有メカニズムの準備> Step 4 REMIPでの情報共有のメカニズムを確立する</rbo間の情報共有メカニズムの準備>												
8-3-1-1 CC2の活動計画案を作成する												SRBA
8-3-1-2 全てのワーキンググループ(WG/CC)及びJICA専門家 に作成した活動計画案の検討を依頼する												SRBA, 4 Leading RBOs, 40ther RBOs, Key Dents
8-3-1-3 (活動計画案に関して)すべてのワーキンググループ(WG/CC)からの承認を得る								-				SRBA, 4 Leading RBOs, 40ther RBOs, Key Dents
8-3-1-4 トレーニング実施のための年間予算をWG3が確保する												SRBA, GDT
8-3-2 <情報共有化(リーディングRBOから、その他のRBOへの助言)> Step 5 CC2やWG3のイニシアティブによってリーディングRBOがその他のRBOに対して(経験共有の)トレ-ニングを実施する												THE STATE AND ASSOCIATION OF THE STATE ASSOCIA
8-3-2-1 各ワーキンググループ(WG/CC)のOJTで活用した教材やテキストを(CC2のメカニズムを通して)集積する												SRBA, GDT
8-3-2-2 集積した教材やテキストをOJTをうけていない他のRBOに配布する												SRBA, 4 Leading RBOs, 4Other RBOs, Key Depts.,
8-3-2-3 活動計画に沿ったトレーニングを選定されたRBOに対して実施する												SRBA, 4 Leading RBOs, 4Other RBOs, Key Depts.,
					-					1		