

### **8.3 Minutes of Meeting on Inception Report**




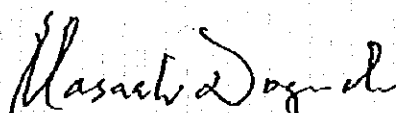
8.3 Minutes of Meeting on Inception Report


MINUTES OF MEETING  
ON  
INCEPTION REPORT  
FOR  
THE STUDY  
ON  
THE INTEGRATED AIR QUALITY MANAGEMENT  
FOR  
JAKARTA METROPOLITAN AREA  
IN  
THE REPUBLIC OF INDONESIA

AGREED UPON BETWEEN  
ENVIRONMENTAL IMPACT MANAGEMENT AGENCY (BAPEDAL)  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

AUGUST 21, 1995  
JAKARTA, INDONESIA

  
Mr. Nabel MAKARIM,  
Deputy for Pollution Control,  
Environmental Impact  
Management Agency  
(BAPEDAL)

  
for Mr. Shonosuke EZOE,  
Leader, Study Team,  
Japan International  
Cooperation Agency  
(JICA)

  
Mr. Koichiro OKAZAKI  
Resident Representative, JICA  
Indonesia Office,  
Japan International Cooperation  
Agency  
(JICA)

For the implementation of the study on the Integrated Air Quality Management for Jakarta Metropolitan Area (hereinafter referred to as "the Study"), the team for the Study (hereinafter referred to as "the Study Team") was dispatched by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and had submitted the Inception Report for the Study (hereinafter referred to as "Ic/R") to Environmental Impact Management Agency (BAPEDAL) and had a series of meetings on the Ic/R in February, 1995.

Following the meetings, BAPEDAL had a series of discussions with the concerned ministries/agencies in Indonesia and submitted comments on the Ic/R (hereinafter referred to as "the Commentary Report") through JICA Indonesia Office to the Study Team on June 16, 1995.

The Ic/R and the Commentary Report were discussed in detail among the Study Team, JICA and BAPEDAL with the following understanding.

1. The major points of the Commentary Report were as follows;
  - 1) This Study will be implemented in principle according to the Scope of Work signed on April 19, 1994 in Jakarta and the Objectives of the Study, Study Area, Scope of the Study, Reports, and Undertakings of both the BAPEDAL and the Team in the Scope of Work will not be changed.
  - 2) The essence of the Ic/R were agreed and basically accepted by BAPEDAL.
  - 3) The equipment installed for the Study by JICA will be forwarded to BAPEDAL when the Study is completed. BAPEDAL will continuously utilize the equipment for its air monitoring activities.
  - 4) Technology transfer to counterpart personnel from the Study Team has to be conducted during the Study.
  - 5) The Study will be conducted based on the previous study reports made by other donors such as World Bank, UNDP and by BAPEDAL itself. It is expected that the Study would contribute much more to BAPEDAL in implementing the programs for air pollution control.
  - 6) The central Jakarta area, which means the central town area of DKI Jakarta, is one of the priority areas within the Study area for air pollution control.
  - 7) The progress report (1) and (2), and draft final report should be discussed in the Steering Committee before finalization.
  - 8) It was confirmed that the Counterpart Team for the Study was assigned and the members of the Steering Committee were selected.
  - 9) Cost sharing between BAPEDAL and JICA will be made according to the Scope of Work and Ic/R in principle. BAPEDAL has made an effort to secure the budget for the Study. However, BAPEDAL requested that some costs would be shared by JICA due to its budgetary constraint.

2. BAPEDAL, JICA and the Study Team agreed the issues as follows;

- 1) The Commentary Report will be used as reference during the Study.
- 2) According to the regulations of JICA, the equipment procured by JICA for the Study has to be listed in the JICA's inventory list during the Study.
- 3) The counterpart personnel to whom the Study Team transfer the necessary technology on the air quality management including air quality simulation modeling should be assigned. The personnel will be the core staff members during the full Study period. It is desirable that the members assigned from BAPEDAL become leaders of each Activity Area.
- 4) The seminars and the workshops for technology transfer will be organized, when appropriate.
- 5) The Study reports which have been made by other donors and BAPEDAL will be useful reference(information) for the Study. Besides, the actually monitored data which will be obtained during the Study are essential to develop the measures for effective air quality management and the Study will principally stand on the data.
- 6) The central Jakarta area will be one of the priority areas for air pollution control.
- 7) The Progress Reports and Draft Final Report submitted by the Study Team will be discussed at the Steering Committee. The comments made by the Committee members will be taken into account in finalizing the reports.
- 8) As mentioned in the Minutes of Meetings on Scope of Work signed on April 19, 1994, the role of the Steering Committee is to give a direction for the Study within the Scope of Work.
- 9) The furnished office(space) for the Study Team has to be prepared by BAPEDAL. The custom clearance, tax exemption procedures, domestic transportation, storage, and installation of the Study equipment have to be covered by BAPEDAL. Besides, BAPEDAL will arrange and bear costs of the provision of facilities for flue-gas emission sampling at industrial/commercial premises.

3. In addition, BAPEDAL, the Study Team and JICA agreed with the issues as follows;

- 1) The Study schedule has to be changed as the attached table, due to the delay of agreement on Ic/R.
- 2) The final comments by BAPEDAL on the Draft Final Report will be submitted to JICA within thirty (30) days after its submission, according to the Scope of Work
- 3) The timing of report submission to BAPEDAL will be rescheduled and exact date will be discussed among the Study Team, BAPEDAL and JICA.
- 4) Details of the consumable parts for JICA Equipment will be decided by the Study Team, JICA and BAPEDAL.

# JICA STUDY TEAM ASSIGNMENT SCHEDULE

Position	Name	1994 (Fiscal Year)												1995 (Fiscal Year)												1996 (Fiscal Year)												1997 (FY)																																																																																																																																																					
		12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6																																																																																																																																															
Supervision/Overall Control Strategy	Shonosuke Ezoe																																																																																																																																																																																										
Vice-Supervisor/ Action Plan/Cost Study	Masaaki Noguchi																																																																																																																																																																																										
Air Quality Monitoring	Yoichiro Okayama																																																																																																																																																																																										
Chemical Analysis	Ikuo Inoue																																																																																																																																																																																										
Meteorological & Air Monitoring	Nonhiko Kawanaka																																																																																																																																																																																										
Emission Measurement	Yoichi Endo																																																																																																																																																																																										
Stationary Source Analysis	Makoto Miyakawa																																																																																																																																																																																										
Mobit Source Analysis	Akeo Fukayama																																																																																																																																																																																										
Pollution Control Plan	Masamuro Nishimura																																																																																																																																																																																										
Traffic & Urban Planning	Kazuyuki Otsuka																																																																																																																																																																																										
Air Pollution Mechanism/ Simulation Model	Akira Yasuoka																																																																																																																																																																																										
Economic & Financial Analysis	Hiroshi Hasogawa																																																																																																																																																																																										
Institutional Aspect	Yoshio Yamanaka																																																																																																																																																																																										
Liaison Support	Tomoo Aoki																																																																																																																																																																																										
Report	Report																																																																																																																																																																																										

Work in Japan  
Work in Indonesia

#### **8.4 Minutes of Meeting on Progress Report(1)**



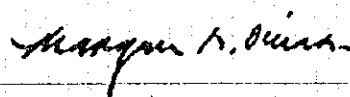
#### 8.4 Minutes of Meeting on Progress Report (1)

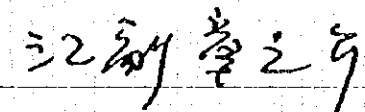
MINUTES OF MEETING  
ON  
PROGRESS REPORT(1)  
FOR  
THE STUDY ON THE INTEGRATED AIR QUALITY MANAGEMENT FOR  
JAKARTA METROPOLITAN AREA IN THE REPUBLIC OF INDONESIA

AGREED UPON BETWEEN  
ENVIRONMENTAL IMPACT MANAGEMENT AGENCY (BAPEDAL)

AND  
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

Jakarta, March 14, 1996

  
Ir. Margana KOESOEMADINATA  
Director of Air Pollution Control  
Environmental Impact  
Management Agency  
(BAPEDAL)

  
Shonosuke EZOE,  
Leader, Study Team,  
Japan International  
Cooperation Agency  
(JICA)

For the implementation of the study on the Integrated Air Quality Management for Jakarta Metropolitan Area (hereinafter referred to as "the Study"), two meetings were held between the Counterpart Team, Steering Committee Members of Environmental Impact Management Agency (hereinafter referred to as "BAPEDAL") and the Study Team to discuss on the Progress Report (1) on March 6 and 11, 1996. Attendants at these meetings are listed in the attached sheets.

Following open heart discussion, BAPEDAL and the Study Team agreed on the correction as follows;

- 1) page 10 , 22, and Appendix E  
To add one column for Indonesian emission and ambient standards and to make comparison of actual data with the standards in next reports.
- 2) page 24  
To attach the location map of sanitary landfill in JABOTABEK Area, if appropriate.
- 3) page 32  
The results of traffic volume between Binkot Study in 1993 and the Study in 1995 are so different. It is necessary to explain the reasons from the Study Team in next reports.
- 4) page 35  
To revise the Table 2.4.4 so that data could be compared with other existing data like Table 2.4.3, with acceptable explanation.
- 5) page 37  
To add Japanese Emission Standard.
- 6) page 47  
Regarding Institutional Aspects, updated data/information as well as further study outputs should be included in the next reports with comparison of Japanese Institutional Management System. It is to be done in due cooperation with BAPEDAL.

## List of Attendants (1) Counterpart Team Meeting

Date: March 6, 1996 ( at BAPEDAL Meeting Room )

### Environmental Impact Management Agency (BAPEDAL)

Ir. Margana Koesoemadinata	Director of Air Pollution Control
Edy Purwanto Moh. Bakri,	Air Pollution Control Directorate
Achmad Gunawan	Air Pollution Control Directorate
M Ilham Malik	Air Pollution Control Directorate
Atu Erna Sunarsih, S.Si	Air Pollution Control Directorate
Fitri Harwati, S.Si	Air Pollution Control Directorate
Helneliza	Environment Laboratory
Askary	Environment Laboratory

### Department of Meteorological and Geophysical (BMG)

Achmad Sasmito Eye

### KPPL DKI Jakarta

Drs. Rafdjon Rax  
Liliansari Loqdin

### JICA Study Team

Shonosuke Ezoe	Team Leader
Masanao Nishimura	JICA Team
Hiroshi Hasegawa	JICA Team
Yoshio Yamanaka	JICA Team
Emile I. Pattiwael, Meng.	JICA Team (local consultant)
Ir. Rihaza Othman, Msc	JICA Team (local consultant)

### Environmental Management Development in Indonesia (EMDI)

Barid Manna, M.Eng, P.Eng.	Air Pollution Adviser
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**List of Attendants (2)**  
**Steering Committee Meeting**

Date: March 11, 1996 ( at BAPEDAL Meeting Room )

Environmental Impact Management Agency (BAPEDAL)

Ir. Margana Koesoemadinata	Director of Air Pollution Control
Ridwan D. Tamin	Section Head, Air Pollution Control
Edy Purwanto Moh. Bakri.	Air Pollution Control Directorate
Umar Suyudi	Air Pollution Control Directorate
Atu Erna Sunarsih, S.Si	Air Pollution Control Directorate
Fitri Harwati, S.Si	Air Pollution Control Directorate
Rosalind R. Salindeho	Environmental Degradation Control Directorate

Governor West Jawa Office

IR.H.Sjarief Sadikin D.	Head of Artificial Environment
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Ministry of Communication

Ir. Tjokorde Gde Agung Sp	Head of Land Transport Safety Directorate Land of Transportation
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Ministry of Health

A. Tri Tugawati	Health Ecology Research Center
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BAPPEDA DKI Jakarta

Purbaya

KPPL DKI Jakarta

Liliansari Loedin

JICA Study Team

Shonosuke Ezoe	Team Leader
Masanao Nishimura	JICA Team
Hiroshi Hasegawa	JICA Team
Yoshio Yamanaka	JICA Team
Ir.Rihaza Othman, Msc	JICA Team (local consultant)

JICA Indonesia Office

Hiroyuki Katayama	JICA Representative
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BAPEDAL and EAST JAWA Pollution Control Implementation (PCI)

Mike Mowle	Air Pollution Adviser
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## **8.5 Minutes of Meeting on Interim Report**



8.5 Minutes of Meeting on Interim Report

MINUTES OF MEETING  
ON  
INTERIM REPORT  
FOR  
THE STUDY ON THE INTEGRATED AIR QUALITY  
MANAGEMENT FOR JAKARTA METROPOLITAN AREA  
IN THE REPUBLIC OF INDONESIA

AGREED UPON BETWEEN

ENVIRONMENTAL IMPACT MANAGEMENT AGENCY (BAPEDAL)  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JULY 31, 1996  
JAKARTA, INDONESIA

*Margana A. Simat*

Ir. Margana Koesoemadinata  
Head of Air Pollution Control Directorate  
Environmental Impact Management  
Agency (BAPEDAL)

*江利孝之*

Shonosuke Ezoe  
Leader, Study Team  
Japan International Cooperation  
Agency (JICA)

*鈴木嘉一*

Yoshikazu Suzuki  
Member of Advisory Committee  
of Japanese side

For the implementation of the Study on the Integrated Air Quality Management for Jakarta Metropolitan Area, the team for the Study (hereinafter referred to as "the Study Team") was dispatched by Japan International Cooperation Agency (hereinafter referred to as "JICA") and had submitted thirty copies of the Interim Report (hereinafter referred as "IT/R") to Environmental Impact Management (BAPEDAL) and had a series of meeting on the IT/R on July 29 and 30, 1996. The lists of attendants are shown in Appendix.

In general, Indonesian Side agreed upon the contents of the IT/R and the medium-growth future scenario proposed in the Chapter 4 of the IT/R as the baseline for the later stage of this Study. Other major discussion items are as follows:

1. The air pollution from the stationary sources come from many industries which are scattered in a big city like Jakarta. DKI Jakarta Government published regulation to move some of the industries which located in Jakarta into outside. The Study Team is requested to give suggestion. The Study Team requested a copy of the regulation.
2. In this Study, technology and know-how will be transferred by the JICA Team for counting and analyzing raw data from air monitoring stations.
3. The JICA Team will check sulfur contents of LPG. BAPEDAL has a policy to use it for motor vehicles.
4. Indonesian Side asked the JICA Team to analyze one more sample of gasoline for lead contents, because lead in PREMIX should be lower than that in PREMIUM. The JICA Team will try to find why the data given in IT/R are reciprocated. The JICA Team is also requested to check lead contents in Super TT analyzed by a laboratory.
5. Indonesian Side asked the JICA Team to make differences between JUDP project and this Study in general. The JICA Team have had a difficulty to obtain a copy of JUDP from its first study. The JICA Team will satisfy the Indonesian Side's request as much as possible.
6. The JICA Team will make a recommendation on air quality monitoring in DKI Jakarta and also BOTABEK after knowing the results of the dispersion model study.
7. In source control plan, the JICA Team explained some actions to reduce emissions:
  - Indonesian Side requested a separate description about fuel.
  - If the government issues an emission gas regulation, the action plans should be "new cars are required to meet the emission standards".
  - BAPEDAL has responsibility to draft regulation of automobile emissions.
  - In order to promote unleaded gasoline, the action plans will be "Subsidy for unleaded gasoline", not for purchase of cars.
8. The JICA Team will recommend a total emission control plan if it is necessary from the future growth study.
9. Indonesian Side requested to make action plans separately for DKI Jakarta and BOTABEK. The JICA Team will try to comply its request.
10. The JICA Team will explain to GAIKINDO to help its understanding about the methodology applied by the JICA Team for the mobile source analysis and the estimation of air pollution from mobile source.

## Appendix

### List of Attendants (1) Counterpart Team Meeting

Date : July 29 , 1996 ( at BAPEDAL's Meeting Room )

#### Environmental Impact Management Agency ( BAPEDAL )

Ir. Margana Koesoemadinata	: Head for Air Pollution Control
Atu Erna Sunarsih, S.Si	: Staff of Air Pollution Control Directorate
Fitri Harwati, S.Si	: Staff of Air Pollution Control Directorate
Ir. Edy Purwanto	: Staff of Air Pollution Control Directorate
Ir. Amelia Rachmatunisa	: Staff of Air Pollution Control Directorate
Ir. Ilham Malik	: Staff of Air Pollution Control Directorate
M. Askary, S.Si	: Staff of Environment Laboratory
Dra. Helneliza	: Staff of Environment Laboratory

#### Environmental Management Center (EMC)

Ir. Sigit Reliantoro  
Nastiti Siti Lestari  
Suprihandari  
Rina Aprishanty

#### DLLAJ DKI Jakarta

Muslim

#### Agency of Meteorological and Geophysical (BMG)

Drs. Achmad Sasmito  
Hartono  
Hartoyo Urip  
Budi Suhardi  
Ali Usman  
M. Syamsul Nizar

#### KPPL DKI Jakarta

Liliansari Loedin  
Rafjon Rax

#### BAPPEDA DKI Jakarta

Aurora T



**Land Transportation Directorate**

Nugroho Indriyo

**JICA Study Team**

Shonosuke Ezoe	: Team Leader
Masaaki Naguchi	: JICA team
Kazuyuki Otsuka	: JICA team
Makoto Miyakawa	: JICA team
Akira Yasuraoka	: JICA team
Akeo Fukayama	: JICA team
Masanao Nishimura	: JICA team
Yoshio Yamanaka	: JICA team
Tomoo Aoki	: JICA team
Emil Pattiwael	: JICA team (Local consultant)

**JICA Indonesia Office**

Yukihiko Ejiri	: JICA HDQ
Yoshikazu Suzuki	: JICA Advisor Committee

**Bapedal Air Pollution Adviser**

Barid Manna. M. Eng. P. Eng	: CEPI
Mike Mowle	: PCI

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**List of Attendants (2)**  
**Steering Committee Meeting**

Date : July 30, 1996 ( at BAPEDAL's Meeting Room )

**Environmental Impact Management Agency ( BAPEDAL )**

Ir. Margana Koesoemadinata	: Head of Air Pollution Control Directorate
Fitri Harwati. S.Si	: Staff of Air Pollution Control Directorate
Ir. Edy Purwanto	: Staff of Air Pollution Control Directorate
Ir. Amelia Rachmatunisa	: Staff of Air Pollution Control Directorate
Ir. Ilham Malik	: Staff of Air Pollution Control Directorate
Drs. Rosalind R. Salindeho, MSc	: Staff of Environmental Degradation Control Directorate
M. Askary	: Staff of Environment Laboratory
Ir. T. Sachrul Ismail	: Head of EMC
Sri Hastuti	: Staff of PPIPL

**Agency of Meteorological and Geophysical (BMG)**

Hery Harjanto, MSc

**KPPL DKI Jakarta**

M. Ali Rozi	: Head of KPPL
Poerwoto	: Staff of KPPL

**GAIKINDO**

Harry Santosa	: Section Head of Transportation and Environment
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**Ministry of Environment Assistant I**

Kusmulyani

**JICA Study Team**

Shonosuke Ezoe	: Team Leader
Masaaki Naguchi	: JICA team
Kazuyuki Otsuka	: JICA team
Makoto Miyakawa	: JICA team
Akira Yasurooka	: JICA team
Akeo Fukayama	: JICA team
Masanao Nishimura	: JICA team
Yoshio Yamanaka	: JICA team



Tamoo Aoki  
Emil Pattiwael

: JICA team  
: JICA team (Local consultant)

JICA Indonesia Office

Yukihiko Ejiri  
Yoshikazu Suzuki

: JICA HDQ  
: JICA Advisor Committee

Bapedal Air Pollution Adviser

Barid Manna. M. Eng. P. Eng  
Sombo Yamamura

: CEPI  
: JICA Chief Advisor EMC

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## **8.6 Minutes of Meeting on Progress Report (2)**



8.6 Minutes of Meeting on Progress Report (2)

MINUTES OF MEETING  
ON  
PROGRESS REPORT (2)  
FOR  
THE STUDY ON INTEGRATED AIR QUALITY  
MANAGEMENT FOR JAKARTA METROPOLITAN AREA  
IN THE REPUBLIC OF INDONESIA

AGREED UPON BETWEEN

ENVIRONMENTAL IMPACT MANAGEMENT AGENCY  
(BAPEDAL)

AND

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

DECEMBER 18, 1996

JAKARTA, INDONESIA

*Margana Koesoemadinata*

Ir. Margana Koesoemadinata  
Head of Air Pollution Control Directorate  
Environmental Impact Management  
Agency (BAPEDAL)

*Shonosuke Ezoe*

Shonosuke Ezoe  
Leader, Study Team  
Japan International Cooperation  
Agency (JICA)

For the implementation of the Study on the Integrated Air Quality Management for Jakarta Metropolitan Area, the team for the Study (herein after referred to as "the Study Team") was dispatched by Japan International Cooperation Agency (herein after referred as "JICA") and had submitted thirty copies of the Progress Report (2) (hereinafter referred as "P/R(2)") to Environmental Impact Management (BAPEDAL) and had a meeting on the P/R (2), on December 18, 1996. The lists of attendants are shown in Appendix.

In general, Indonesia side agreed upon the contents of the P/R (2) of this study. Other major discussion items are as follows :

1. Definitions of PM, TSP, SPM, and Dust are not clear in the report, the JICA Team will explain in more detail.
2. Analytic results of the study should be compared with situations of other countries or regions to show the extent of pollution in Jabotabek. The Team will make comparison with some cities and comment on it.
3. Data on heavy metals and lead are not included, so that they have to be in the final draft report following the Team's on-going analysis works.
4. Intensity of inversion layer might be a good information, if included into the report. The Team will include them into the final report.
5. The maps in page A-40 - 41 should be overlaid with the administrative boundary.
6. Updated figures for fuel prices should be added to ones in page 11-18 (3).
7. Information on private sector should be included into page 11-18 (2), by obtaining related data from BAPEDAL.
8. The results of this JICA Study are to be compared with the findings of the existing study reports related to the Jabotabek Air Pollution, by BAPEDAL.
9. Ambient levels found through the simulation works should be shown in iso-pleth maps. The Team will do that as planned.
10. In order to present data in the report, bar-graphs should be used more often.
11. It is recommended to include the existing acid-rain data. The Team will not take this into account because that factor is out of S/W.
12. BAPEDAL has put less importance on the strategies, most of them have already started. So the JICA Team is requested to put more stress on the pairs of data and analysis. The Team will follow this request as it has done so far.

13. A word, "Promotion" used in the strategies and action plans should be replaced with a more appropriate one such as "Strengthening", "Enforcement", etc.

14. In the action plans, only "Making of Inventory for Stationary Sources" and "Monitoring System of Ambient Air" should be more focused.

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**List of Attendants (1)  
Counterpart Team Meeting**

**Date : December 18, 1996 (at BAPEDAL's Meeting Room )**

**Environmental Impact Management Agency (BAPEDAL)**

Ir. Margana Koesoemadinata	: Head for Air Pollution Control
Ir. M. Ilham Malik	: Staff of Air Pollution Directorate
Ir. Achmad Gunawan	: Staff of Air Pollution Directorate
Umar Suyudi, SH	: Staff of Air Pollution Directorate
Ir. Amelia Rachmatunisa	: Staff of Air Pollution Directorate
Ir. Edy Purwanto	: Staff of Air Pollution Directorate
Purwasto	: Staff of Program Development Directorate

**Environmental Management Center (EMC)**

T. Sachrul	: Head of Pusarpedal
Sombo Yamamura	: JICA Cief Advisor
M.Hayakawa	: JICA Expert

**DLLAJ DKI Jakarta**

Ir. Tjokorde Gde Agung	: Staff of DLLAJ
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**Agency of Meteorology and Geophysics (BMG)**

Hery Harjanto	: Section Head of BMG
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**KPPL DKI Jakarta**

M. Ali Rozi	: Head of KPPL
Rafdjon Rax	: Staff of KPPL

**Departement of Health**

Tri Tugaswati	: Staff of DOH
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**JICA Study**

Shonosuke Ezoe	: Team Leader
Akira Yasuraoka	: JICA Team
Masanao Nishimura	: JICA Team
Yoichiro Okayama	: JICA Team
Hiroshi Hasegawa	: JICA Team

**JICA Indonesia Office**

Hiroyuki Katayama

**BAPEDAL Air Pollution Advisor**

Barid Manna. M. Eng. P. Eng.  
Yoshimi Matsui

: CEPI  
: JICA Advisor

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## **8.7 Minutes of Meeting on Draft Final Report**



8.7 Minutes of Meeting on Draft Final Report

MINUTES OF MEETING  
ON  
DRAFT FINAL REPORT  
FOR  
THE STUDY ON THE INTEGRATED AIR QUALITY  
MANAGEMENT FOR JAKARTA METROPOLITAN AREA  
IN THE REPUBLIC OF INDONESIA

MARCH 14, 1997

JAKARTA, INDONESIA

*Margana A. Suman.*

Margana Koesoemadinata  
Head of Air Pollution Control Directorate  
BAPEDAL

*江新孝之*

Shonosuke Ezoe  
Leader of JICA Study Team

Witness:

*松下 孝鶴*

Hidetsuru Matsushita  
Chairman of JICA Advisory Committee  
for the Study

For the implementation of the Study on the Integrated Air Quality Management for Jakarta Metropolitan Area, the Team for the Study (hereinafter referred to as "the Study Team") was dispatched by the Japan International Cooperation Agency (hereinafter referred to as "JICA"). The following numbers of copies of Draft Final Report for the Study (hereinafter referred to as "DF/R") were presented to Environmental Impact Management Agency (hereinafter referred to as "BAPEDAL") :

Executive Summary	:	50 copies
Main Report	:	50 copies
Supporting Report	:	6 copies
Data Book	:	6 copies

A technical meeting and a steering committee meeting on the DF/R were held on 6th and on 10th March of 1997, respectively. A list of attendants in the steering committee is attached as Appendix.

Both the Indonesian and Japanese sides had discussed in deep on the results of the Study. Conclusively, the Indonesian side, in general, agreed upon the contents of the DF/R.

Major items in discussion are as follows :

1) The Indonesian side requested the Study Team to correct or revise the contents of the DF/R regarding the next points ;

- Table 3.3.6 (Main Report, p.3-7) titled "Comparison of Ambient Air Quality between Megacities" is to be added with more recent data for Bangkok which is supposed to be provided to the Study Team soon from BAPEDAL.
- An expression, "EMC is an affiliate of BAPEDAL" (Executive Summary, p.14 and other parts), is to be altered as "EMC is a supporting facility of BAPEDAL".
- SPM simulation outputs in the Supporting Report (p. 170, 220, 246 and 249) should have notes stating 'Approximate Estimate Only' instead of 'Attention : Only for Reference'.
- The term of "Inspection center" is to be altered to "inspection unit".

2) The Study Team informed that it would revise the current contents, mainly by improving English expression, correcting mis-spells, and improving Table 9.4.3 (Main Report, p.9-46), Table 1 (Executive Summary, p.6) and Table 6.3 (Executive Summary, p.38) titled "Results of Qualitative Evaluation of Countermeasures", based on complementary analysis in institutional and financial aspects and scheduling of the proposed

countermeasures. The additional complementary analyses will be included in Section 9.4 of the Main Report.

- 3) BAPEDAL reconfirmed that it should provide the Study Team with additional comments on the contents of the DF/R, if any, within 14 days after the steering committee meeting (i.e. by March 24th, 1997) as mentioned in the Inception Report.
- 4) The Indonesian side agreed that the Final Report could be open to the public.

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## APPENDIX

### List of Attendants Steering Committee Meeting

Date : March 10th, 1997

Place : Arthaloka 17F Meeting Room

#### Environmental Impact Management Agency (BAPEDAL)

Margana Koesoemadinata	: Head for Air Pollution Control Directorate
M. Ilham Malik	: Staff of Air Pollution Control Directorate
Achmad Gunawan	: Staff of Air Pollution Control Directorate
Umar Suyudi	: Staff of Air Pollution Control Directorate
Amelia Rachmatunisa	: Staff of Air Pollution Control Directorate
Edy Purwanto	: Staff of Air Pollution Control Directorate
Atu Erna Sunarsih	: Staff of Air Pollution Control Directorate
Fitri Harwati	: Staff of Air Pollution Control Directorate
Purwasto	: Staff of Program Development Directorate
Yoshimi Matsui	: JICA Expert (Advisor on Environment Management)
Barid Manna	: CEPI (Air Pollution Control Advisor)

#### PUSARPEDAL (Environmental Management Center : EMC)

T. Sachrul Ismail	: Head of Pusarpedal
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#### KPPL DKI Jakarta (KPPL)

Rafdjon Rax	: Staff of KPPL
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#### Ministry of Health (MOH)

A. Tri Tugaswati	: Staff of MOH
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#### Ministry of Transport (MOT)

Tjokorde Gde Agung	: Head of KTSN, Ditjenhubdat
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#### West Java Province

Sjarief Sadikin	: Staff of Environmental Bureau (BLH)
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#### JICA Study Team

Shonosuke Ezoe	: Team Leader of the JICA Study Team
Masaaki Noguchi	: Member of the JICA Study Team
Yoshio Yamanaka	: Member of the JICA Study Team
Hiroshi Hasegawa	: Member of the JICA Study Team
Tomoo Aoki	: Member of the JICA Study Team
Hirohisa Ishikawa	: Assistant for Installation of Simulation Software
Emil Pattiwaei	: Local Consultant

#### JICA Advisory Committee for the Study

Hidetsuru Matsushita	: Chairman of JICA Advisory Committee for the Study
Shigemoto Kajihara	: Member of JICA Advisory Committee for the Study
Yoshikazu Suzuki	: Member of JICA Advisory Committee for the Study

**Japan International Cooperation Agency (JICA)**

Katsumi Otani  
Hiroyuki Katayama

: JICA Headquarters  
: JICA Indonesian Office

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Agata

(JG)



## **8.8 Minutes of Discussion for Implementation**



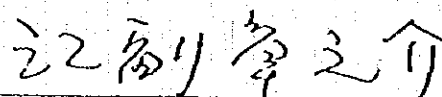
MINUTES OF DISCUSSION  
FOR  
IMPLEMENTATION  
OF  
THE STUDY ON THE INTEGRATED AIR QUALITY MANAGEMENT FOR  
JAKARTA METROPOLITAN AREA IN THE REPUBLIC OF INDONESIA

AGREED UPON BETWEEN  
ENVIRONMENTAL IMPACT MANAGEMENT AGENCY (BAPEDAL)  
AND  
JICA STUDY TEAM

Jakarta, December 13, 1994



Nabel Makarim  
Deputy for Pollution Control  
Environmental Impact  
Management Agency



Shonosuke Ezoe  
Leader, Study Team  
Japan International Cooperation  
Agency

BAPEDAL and JICA Study Team held discussions for the smooth implementation of the Study, and confirmed the following points:

The list of attendants is shown in APPENDIX.

1. BAPEDAL and JICA Study Team agreed that implementation plan and technology transfer will be the prime focus of this study. JICA Study Team requested to provide office space and assign counterparts to fulfill the objectives. BAPEDAL ensured that it would assign counterparts and secure office space within BAPEDAL Headquarters.
2. The study area will be Jakarta Metropolitan area with main focus on DKI Jakarta. The study on the major emission sources in Bogor, Tangerang, and Bekasi will be also carried out.
3. Both parties agreed to monitor ambient air qualities using five existing stations - Jl. Thamrin, Pulo Gadung, Pluit, Kuningan, EMC. JICA Study Team will check equipments in the stations whether they are in a good condition. JICA will repair or replace mal-functioning equipments, or install new equipments, if necessary.

BAPEDAL requested that JICA will provide a monitoring analyzer for suspended particulate matter (SPM) in Cibinong.

4. BAPEDAL agreed to form the steering committee consisting of representatives of BAPEDAL, Ministry of Transport, DKI JAKARTA, Province of West JAVA, JICA, JICA's advisory committee and JICA Study Team. Representatives of other organizations will be invited when necessary. Advisors from other donor countries/organizations will be invited as observers to the committee.

## APPENDIX: List of Attendants

### Environmental Impact Management Agency (BAPEDAL)

Nabiel Makarim	Deputy for Pollution Control
M. Ilham Malik	Air Pollution Control Sub-directorate
Edy Purwanto Moh. Bakri	Air Pollution Control Sub-directorate
Umar Suyudi	Air Pollution Control Sub-directorate

### JICA Study Team

Shonosuke Ezoe	Leader, JICA Study Team
Masaaki Noguchi	Action Plan and Cost Study Expert, JICA Study Team
Yoichi Okayama	Air Quality Management Expert, JICA Study Team
Norihiko Kawanaka	Meteorological & Air Monitoring Expert, JICA Study Team
Yoichi Endo	Emission Measurement Expert, JICA Study Team
Makoto Miyakawa	Stationary Source Analysis Expert, JICA Study Team
Tomoo Aoki	Coordinator, JICA Study Team

### JICA

Masato Togawa	JICA Headquarters
Motokazu Iwata	JICA Expert, Environmental Impact Management Agency (BAPEDAL)
Satoru Watanabe	JICA Indonesia Office

### Observer(AIDAB)

Mike Mowle	Air Pollution Advisor, Pollution Control Implementation
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JICA