

Data 10

*M/M, Comments on DF/R, and
Team's Response*

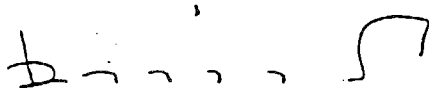
10 M/M, Comments on DF/R, and Team's Response

Scope of Work for the Study, March 31, 1998	D10-1
M/M for the Study, March 31, 1998	D10-8
M/M for the IC/R, August 17, 1998	D10-14
M/M for the P/R (1), November 17, 1998	D10-21
M/M for the IT/R, March 2, 1999	D10-28
M/M for the P/R (2), June 10, 1999	D10-37
M/M for the DF/R, October 19, 1999	D10-46
Comments by the Related Organisation and the Response of the Study Team .	D10-52

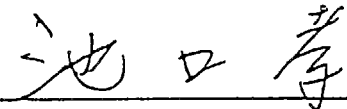
10 M/M, Comments on DF/R, and Team's Response

SCOPE OF WORK
FOR
THE STUDY
ON
REGIONAL SOLID WASTE MANAGEMENT FOR ADANA-MERSIN
IN
THE REPUBLIC OF TURKEY
AGREED UPON BETWEEN
THE MINISTRY OF ENVIRONMENT
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

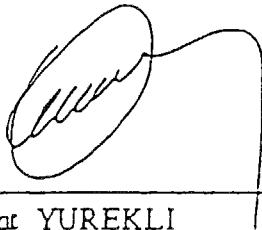
Ankara, March 31 , 1998



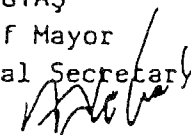
Dr. Ilker BASAYDIN
Deputy Undersecretary
The Ministry of Environment



Mr. Takashi IKEGUCHI
Leader, Preparatory Study Team,
Japan International Cooperation
Agency



Mr. Bulent YUREKLI
Head of Environmental Health Department
Mersin Greater Municipality
On behalf of Mayor

Mr. M.Ali DAĞTAŞ
On behalf of Mayor
Deputy General Secretary,

Adana Greater Municipality

I. INTRODUCTION

In response to the request of the Government of the Republic of Turkey (hereinafter referred to as "the Government of Turkey"), the Government of Japan has decided to conduct The Study on Regional Solid Waste Management for Adana-Mersin in the Republic of Turkey (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study in close cooperation with authorities concerned of the Government of Turkey.

The present document sets forth the Scope of Work with regard to the Study.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

1. to formulate a master plan for the improvement of Solid Waste Management (hereinafter referred to as "SWM") in Adana-Mersin, focusing on regional SWM, for the target year 2020,
2. to conduct a feasibility study on the priority project(s) to be selected from the master plan, and
3. to transfer technologies for solid waste management to counterpart personnel in the course of the Study.

III. STUDY AREA

The Study shall cover the Adana province and Icel province.

IV. SCOPE OF THE STUDY

In order to achieve the above mentioned objectives, the Study shall cover the following:

(I) : Master Plan formulation stage

1. Collection and analysis of existing data and information in the Study area :
 - a) data and information on physical conditions such as climatic, topographic, meteorological, hydrological, soil, geological and geographical conditions
 - b) social and economic situations
 - c) city planning, urban development plans and land use plan related to the Study
 - d) turkish legislation and regulations concerned with environment/ sanitation and responsibilities, income and powers of municipalities
 - e) financial situations
 - f) policy concerned with environment/ sanitation, and
 - g) other related plans

D10-2



2. Understanding of the present conditions in the Study area such as :
 - a) implementation of SWM and medical waste
 - b) health and hygiene of residents
 - c) institutional and administrative capacity
 - d) environmental pollution, caused by solid wastes
 - e) activities by other related parties

3. Field survey, such as
 - a) amount of solid waste and its composition
 - b) available garbage collection and transportation (time and motion study)
 - c) public awareness on SWM
 - d) initial environmental evaluation(IEE) for new facilities of SWM

4. Evaluation of present condition of SWM and identification of its problems

5. Establishment of planning frame, forecasting through projection on:
 - a) population growth , city planning, urban development plans and land use plan
 - b) economic growth and changes in living conditions
 - c) changes in quality and quantity of solid wastes

6. Establishment of basic policies, from
 - a) technical aspects
 - b) financial aspects
 - c) social aspects
 - d) environmental and hygienic aspects
 - e) institutional aspects

7. Comparison of alternatives and selection of the best alternative

8. Formulation of Master Plan, composed of
 - a) collection and transportation plan
 - b) recycling and reuse plan
 - c) treatment and disposal plan
 - d) operation and maintenance plan
 - e) institutional and organization plan
 - f) environmental and hygienic education plan
 - g) preliminary cost estimate
 - h) financial plan
 - i) comprehensive evaluation
 - j) step wise implementation plan

9. Selection of priority project(s)

(II) : Feasibility Study stage

1. Supplemental survey, including:
 - a) collection and review of existing data and information
 - b) in-depth understanding of the present conditions

bis.

D10-3

- c) in-depth field survey
2. Environmental Impact Assessment(EIA)
3. Facilities plan
4. Equipment plan
5. Operation and maintenance plan
6. Organization and institution plan
7. Cost estimation
8. Financial plan
9. Comprehensive evaluation
10. Implementation plan

V. STUDY SCHEDULE

The Study will be carried out in accordance with the tentative schedule attached in Annex 1.

VI. REPORTS

JICA will prepare and submit the following reports in English to the Government of Turkey.

1. Inception Report:

Twenty (20) copies at the commencement of the first work in Turkey.

2. Progress Report(1):

Twenty (20) copies at the end of the first work in Turkey.

3. Interim Report:

Twenty (20) copies at the beginning of the second work in Turkey.

4. Progress Report(2):

Twenty (20) copies at the end of the second work in Turkey.

5. Draft Final Report:

Thirty(30) copies at the beginning of the third work in Turkey. The Government of Turkey will submit its comments to JICA within one (1) month after receipt of the Draft Final Report.



Dis.

D10-4



5 . Final Report

Seventy five (75) copies within two(2)month after JICA receipt of above comments on the Draft Final Report.

VII. UNDERTAKINGS OF THE GOVERNMENT OF TURKEY

1. To facilitate smooth conduct of the Study, the Government of Turkey shall take necessary measures as follows:

- (1) to secure the safety of the Japanese Study Team (hereinafter referred to as "the Team"),
- (2) to permit the members of the Team to enter, leave and sojourn in Turkey for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees,
- (3) to exempt the members of the Team from taxes, duties, fees and other charges on equipment, machinery and other materials brought into and out of Turkey for the conduct of the Study,
- (4) to exempt the members of the Team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Team for their services in connection with the implementation of the Study,
- (5) to provide necessary facilities to the Team for remittance as well as utilization of the funds introduced into Turkey from Japan in connection with the implementation of the Study,
- (6) to secure permission for entry into private properties or restricted areas for the implementation of the Study,
- (7) to secure permission for the Team to take all data and documents (including photographs and maps) related to the Study out of Turkey to Japan, and
- (8) to provide medical services as needed. Its expenses will be chargeable on members of the Team.

2. The Government of Turkey shall bear claims, if any arises, against the members of the Team resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Team.

3. The Ministry of Environment shall act as the counterpart agencies to the Team and also as coordinating bodies in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

4. The Ministry of Environment shall, at its own expense, provide the Team with the following, in cooperation with other organizations concerned:



his.

D10-5



- (1) available data and information related to the Study,
- (2) counterpart personnel,
- (3) suitable office space with necessary equipment in both Adana greater municipality and Mersin greater municipality ,
- (4) credentials or identification cards, and
- (5) appropriate number of vehicles and drivers, with fuel.

VIII. UNDERTAKINGS OF JICA

For the implementation of the Study, JICA shall take the following measures:

1. to dispatch, as its own expense, the Study Team to Turkey, and
2. to pursue technology transfer to the Turkey counterpart personnel in the course of the Study.

IX. CONSULTATION

JICA and the Ministry of Environment shall consult with each other in respect of any matter that may arise from or in connection with the Study.



COA bis.

D10-6

Handwritten text: #10 D10-7

TENTATIVE SCHEDULE

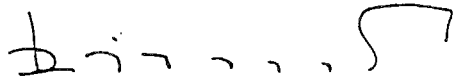
Annex I

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Work in Turkey	█	█	█	█	█			█	█		█	█		█	
Work in Japan	█				█	█	█					█	█		█
Stage	↓						↑	↓			Stage(II)				↑
Report	IC/R				P/R(1)		IT/R				P/R(2)		DF/R		F/R

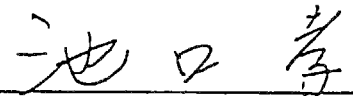
IC/R : Inception Report
 P/R : Progress Report
 IT/R : Interim Report
 DF/R : Draft Final Report
 F/R : Final Report

MINUTES OF MEETING
FOR
THE STUDY
ON
REGIONAL SOLID WASTE MANAGEMENT FOR ADANA-MERSIN
IN
THE REPUBLIC OF TURKEY
AGREED UPON BETWEEN
THE MINISTRY OF ENVIRONMENT
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

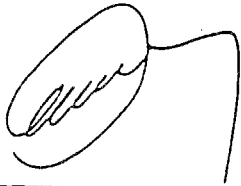
Ankara, March 31, 1998



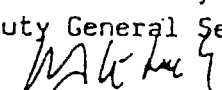
Dr. Ilker BASAYDIN
Deputy Undersecretary
The Ministry of Environment



Mr. Takashi IKEGUCHI
Leader, Preparatory Study Team,
Japan International Cooperation
Agency



Mr. Bulent YUREKLI
Head of Environmental Health Department
Mersin Greater Municipality
On behalf of Mayor

Mr. M. Ali DAĞTAŞ
On behalf of Mayor
Deputy General Secretary

Adana Greater Municipality

Based on the official request from the Government of the Republic of Turkey, the Government of Japan, through the Japan International Cooperation Agency (JICA), has agreed to conduct a Study on Regional Solid Waste Management for Adana-Mersin in the Republic of Turkey (hereinafter referred to as "the Study").

The JICA Preparatory Study Team (hereinafter referred to as "the Team"), headed by Mr. Takashi IKEGUCHI, visited Turkey from 22th of February to 6th of March, 1998, where they held a series of meetings with the Ministry of Environment, the Adana Greater Municipality, Mersin Greater Municipality and other authorities concerned from the Government of The Republic of Turkey. The list of participants is shown in the Annex.

During the discussions, both sides agreed to the Scope of Work to be undertaken by the Ministry of Environment, Adana Greater Municipality, Mersin Greater Municipality and JICA for successful execution of the Study. In addition to the Scope of Work, the Team and the Turkish side confirmed and agreed on, among others, the following:

1) The Study area

Both the Japanese side and Turkish side agreed that the basic concept of the Study is to establish a regional solid waste management plan which focuses on Adana greater municipality and its surrounding area, Mersin greater municipality and its surrounding area. The plan for each greater municipality is formulated separately.

In the Study, at first, a present condition in the Adana province and Icel province is studied, then the surrounding area which is located around Adana greater municipality and Mersin greater municipality is determined, and formulate the solid waste management plan for both greater municipalities including their surrounding area in the Master Plan. This determination of their surrounding area is due to the result of the approval discussion between the full-scale study team and Turkish side.

2) The aim of the Study

Both sides agreed that the Study aims to establish a regional solid waste management plan to be possible to implement and sustainable. To achieve this purpose, the Study will be carried out, being considered from the technical, administrative and financial aspects.

3) Workshops

The Ministry of Environment requested that several workshops on suitable time would be held for the recognition of importance of Solid Waste Management to relevant parties. The Team will convey the request to the JICA Headquarters.

4) The target year

Both sides agreed that the target year of the Study shall be 2020.

5) The types of solid waste

Both sides agreed that household waste, market waste, commercial waste, office waste, street sweeping waste and medical waste are studied. Data on medical waste will be collected by only an interview survey and existing data. Industrial waste is not included in the Study.

 104 bis.

D10-9 

6) Selection of candidate sites for a new facilities of SWM

Both sides agreed that the location of new facilities in the Master Plan will be determined in the following steps.

- a) Turkish side proposes some candidate sites
- b) Japanese side evaluates these sites from the view point of technical, financial and environmental aspect
- c) Turkish side determines the site, referring the result of this evaluation

7) Necessary procedures for construction plan in the Feasibility Study

Both sides agreed that in the case that a construction plan for new facilities of SWM are included in the Feasibility Study, Turkish side shall be responsible for the following items by the commencement of the second work in Turkey. Whether a construction plan for new facilities of SWM are included or not in the Feasibility Study, shall be decided in the end of first work in Turkey, with the approval discussion of Turkish side.

- a) Acquiring the neighbors' consensus of new facilities sites
- b) Acquiring the permission of topographic, geological survey and environmental study for new facilities sites

The Team requested Turkish side not to force neighbors accept the new sites, then Turkish side agreed upon said request.

Also in that case, Environment Impact Assessment(EIA) on the study shall be carried out considering the Turkish regulation.

8) The counterpart team


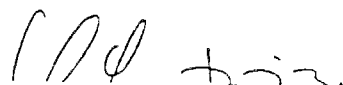
Both sides agreed that the the Ministry of Environment takes responsibility to organize "Counterpart Team", which will cooperate with the Study Team by the commencement of the Study. The counterpart team shall consist, at least, of those persons who are responsible for the following areas or fields:

- a) Solid waste management planning
- b) Collection of solid waste planning
- c) Disposal at sanitary landfill planning
- d) Finance and accounting planning
- e) Recycling and reuse planning
- f) Bilingual secretary (Full time attendance)

9) The steering committee

Both sides agreed that the Ministry of Environment is responsible for organizing, by the commencement of the Study, "Steering Committee" which shall be empowered to authorize and take responsibilities for the recommendations of the Study. Steering Committee may consist of the representative of following entities and experts:

- a) The Ministry of Environment
- b) State Planning Organization(SPO)
- c) Adana province government
- e) Mersin province government
- e) Adana greater municipality
- f) Mersin greater municipality


D10-10

10) Necessary equipment for the Study

Both sides confirmed that Turkish side will provide the necessary equipment, written in "VII. UNDERTAKINGS OF THE GOVERNMENT OF TURKEY item 4." in S/W. Regarding this item, the following items are also confirmed. These equipment are provided by both municipalities.

- a) "suitable office space" means for at least 10 people.
- b) "necessary equipment" means with furniture and an air-conditioner, two telephone lines and local communication payments.
- c) "appropriate number of vehicles and drivers" means at least 2 vehicles.

Turkish side requested Japanese to prepare some equipment such as copy machine and facsimile machine, due to the budget restriction. The Team will convey this request to JICA Headquarter Office.

11) Counterpart training

The Ministry of Environment requested that the transfer of technology would be realized also through training in Japan. The Team will convey the request to the JICA Headquarters.

12) Reports

Both sides agreed that all reports in the Study shall be open to the general public, and written in English. Also, Turkish side requested Japanese side to increase the number of final report from 50 to 75 copies to dispatch the other relevant government offices concerned. Japanese side accepted this.

13) Undertaking of the Government of Turkey

The Ministry of Environment agreed that in regard to "VII. UNDERTAKINGS OF THE GOVERNMENT OF TURKEY" in S/W, the Ministry of Environment shall take the necessary coordination with other relevant organizations.

14) Component of Master Plan

Both sides agreed that the following plans should be included in the Master Plan.

- a) Short-term, middle-term and long-term step wise implementation plans

Also, the Master Plan should be formulated by the approval discussion between Japanese side and Turkish side.

15) Meaning of transfer technologies


Turkish side requested Japanese side to clarify the meaning of transfer technologies. In response to the request, Japanese side replied that it meant as following.

- a) To teach the necessary methodology to establish the solid waste management plan.
- b) The necessary methodology is involved technical, administrative and economical aspects.

16) Urgent issue for SWM

Turkish side expressed that the construction plans for new landfill sites, transfer stations, recycling and reuse facilities are urgently necessary, considering the current situation. Then, these plans may be selected as the priority projects. Japanese side



understood them.

17) Closure and rehabilitation plan for the landfill sites

Both sides agreed that in the case of that the construction plan for the new landfill is selected as priority projects, the closure plan should be included in the Feasibility Study. Also, the rehabilitation plan for the current sanitary landfill and the composting facility is necessary in the Feasibility Study, when it is selected.

18) Study period

Regarding the period of the full scale study, Turkish side requested to make shorter the period from seventeen (17) months to twelve (12) months. Japanese side insisted on to reserve the period as original in order to assure the quality report. Through discussion, both side agreed that the period of the study shall be fifteen (15) months. Turkish side expressed its appreciation to the efforts of Japanese side and assured to cooperate to make a good report with fifteen (15) months.

19) Commencement of the full scale study

Turkish side requested Japanese side to dispatch the full scale study team by the beginning of July, 1998. Japanese side replied to make the best effort to dispatch the team by that time.



his.

APPENDIX

ATTENDANCE LIST

Turkish Side

Ministry of Environment

Dr. Ilker BASAYDIN	Deputy Undersecretary
Sami AGIRGUN	General Director, Directorate of Environmental Pollution Prevention and Control
Dr. Nurullah OZCAN	Deputy General Director, Directorate of Environmental Pollution Prevention and Control
Huseyin SOGUTCU	Deputy General Director, Directorate of Environmental Pollution Prevention and Control
Umit GENC	Head, Waste Management Department
Filiz BAYCAN	Environmental Engineer
Ramazan TUZUN	Lawyer
Ergin HUSMEN	Chief, Waste Management Department
Ali ihsan DOGAN	Agriculture Engineer
Hulya CAKIR	Environmental Engineer
Suat HACIHASANOGU	Environmentalist

Adana Greater Municipality

Fahrettin ASICI Director, Protection of Environment Department

Mersin Greater Municipality

Bulent YUREKLI Head of Environmental Health Department

Interpreter

Eser ERISEN	KENTKUR
Gonul MIHLADIZ	KENTKUR

Japanese Side

JICA Preliminary Study Team

Takashi IKEGUCHI	Leader / Solid Waste Management Planning
Toshiya SATO	Study Planning
Hiroyuki KATADA	Solid Waste Administration
Kazuchika SATO	Organization/ Institution
Hirochika MANABE	Solid Waste Collection and Transportation Planning
Yasuo NAKANE	Final Disposal Planning/Environmental Consideration

JICA Turkey Office

Shigeru OTAKE	Assistant resident representative
Dr. Nurettin ELBIR	Consultant

D10-13

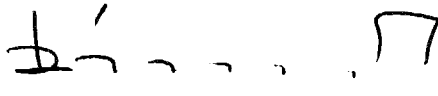
Handwritten signature/initials

Handwritten marks and scribbles at the bottom of the page.

**MINUTES OF MEETING
ON
THE INCEPTION REPORT
OF
THE STUDY ON REGIONAL SOLID WASTE MANAGEMENT
FOR
ADANA-MERSIN
IN
THE REPUBLIC OF TURKEY**

**AGREED UPON BETWEEN
THE MINISTRY OF ENVIRONMENT
AND
JICA STUDY TEAM**

Ankara, August 17th, 1998



Dr. Ilker BASAYDIN
Deputy Undersecretary
The Ministry of Environment



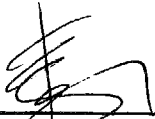
Mr. Susumu SHIMURA
Leader of JICA Study Team



Mr. Aytaç DURAK
Mayor
Adana Greater Municipality



Witness
Mr. Takashi IKEGUCHI
Chairman
of JICA Advisory Committee



Mr. İlhan SAYAN
Consultant of Mayor of
Mersin Greater Municipality
On behalf of Mayor

**MINUTES OF MEETING ON THE INCEPTION REPORT OF
THE STUDY ON REGIONAL SOLID WASTE MANAGEMENT
IN THE REPUBLIC OF TURKEY**

1. INTRODUCTION

- 1.1 The Study Team has submitted twenty (20) copies of the Inception Report to the Government of the Republic of Turkey. Consequently a series of meetings were held from August 10th to 17th in Ankara, Adana and Mersin in Turkey to discuss the report submitted. A list of officials attending in the above meetings is given in the Appendix 1.

2. ISSUES AND DECISIONS

- 2.1 Various issues were discussed and clarifications on the Inception Report (IC/R) were made. Subsequently appropriate consensus was reached during the meetings. These issues, clarifications and consensus are outlined in the following paragraphs.

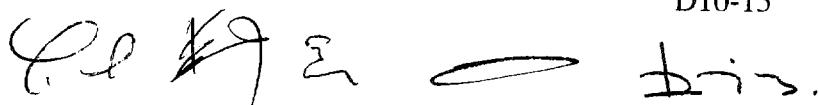
2.2 A Weekly Meeting between the Study Team and the Counterparts

For smooth implementation of the study and technology transfer to the counterpart personnel, the study team proposed a weekly meeting between the study team and the counterparts be held alternately in Greater Municipality of Adana and Greater Municipality of Mersin to discuss the weekly progress of the works, the agenda for the following week, responsibilities of the counterpart and the study team, issues to be resolved by the counterpart, etc.

Turkish side accepted the proposal.

2.3 The Target Municipalities

As stated in the M/M (minutes of meeting) signed on 31 of March 1998, the target municipalities of the study are the Greater Municipality of Adana, the Greater Municipality of Mersin, and their nearby municipalities. The municipalities nearby the two Greater Municipalities to be included in the target municipalities will be decided based on the coverage deemed appropriate by the counterpart and the study team.

Handwritten signatures and initials in black ink, including a large signature on the left, a smaller one in the middle, and the word 'dis.' on the right.

The study team and the Turkish counterparts discussed the matter and concluded the target municipalities are limited to the Adana Greater Municipality and the Mersin Greater Municipality.

2.4 Selection of New Final Disposal Sites

Regarding the selection of new final disposal site the study team clarified it shall ultimately rest on the Turkish side, with the team assisting in the compilation of necessary documents. The team also clarified the selection work procedure as follows:

1. The Turkish side presents candidate final disposal sites.
2. The study team evaluates the sites based on their criteria presented in the IC/R.
3. If the study team could not identify an appropriate final disposal site in either Adana or Mersin Greater Municipality, the team will request the greater municipality, which will not have an appropriate site, to propose another site, that will also be subject to the team's assessment.
4. If the study team could not identify an appropriate final disposal site by the end of October 1998, the feasibility study for the construction of a new final disposal site in the greater municipality will not be done by the study.
5. The Master Plan shall be formulated assuming a future final disposal site in the greater municipality locates in a certain place.

The Turkish side agreed the clarification.

2.5 Procedure for the Feasibility Studies

The study team clarified the procedure to be taken before the commencement of the feasibility study for the construction of a new SWM facility, such as a final disposal site, a transfer station and a recycling/resource recovery facility.

1. Prior to the beginning of the F/S, the Turkish side should first accomplish the following.
 - Gain the consensus of the residents in areas adjacent to the target new facility site.
 - Obtain a permit from the owners of the target new facility site so that topographic surveys, geological investigations, and environmental studies

D10-16

Handwritten signatures and initials in black ink, including a large signature on the left and the initials 'D13.' on the right.

can be conducted on the site.

2. These measures should be completed prior to the beginning of the F/S, before the second study work in Turkey commences, to be precise.
3. The implementation of the F/S for the construction of a new facility, however, will be decided after discussions with the counterparts by the end of the first study work in Turkey, i.e. by mid-November 1998.

The Turkish side agreed the clarification.

2.6 Rehabilitation Plan of the Existing Final Disposal Site in Adana

The Adana Greater Municipality requested the study team to urgently prepare a rehabilitation plan of the existing final disposal site in Adana.

The study team replied that they could prepare a plan before the end of the first study work in Turkey but the plan is not the equal level with a feasibility study, and that the finance of the implementation of the plan shall be covered by the budget of Adana Greater Municipality.

The study team and the Adana Greater Municipality agreed to further discuss this matter.

2.7 Installation of a Weighbridge at the Adana Final Disposal Site

In order to accurately quantify the waste amount disposed at the existing final disposal site in Adana, the study team proposed to install a weighbridge at the disposal site, and that the works involved in the installation of the weighbridge be allocated to the following responsible bodies as shown in the table below.

Table 1: Allocation of Works for Weighbridge Installation

Work Item	Responsible Body	Schedule
1. Selection of location	Greater Municipality of Adana (study team will recommend the location)	mid-August
2. Ordering and purchase	JICA Ankara office	late August
3. Ordering of control building and weighbridge foundation	Study team	mid-September

D10-17

Handwritten signatures and initials:
C. I. #9 E. O. bis.

4.	Electrical installation	Greater Municipality of Adana	early October
5.	Construction of control building and weighbridge foundation	Local contractor	late October
6.	Weighbridge installation	Manufacturer	late October
7.	Weighbridge test operation	Manufacturer and Greater Municipality of Adana	early November
8.	Weighbridge test operation	Greater Municipality of Adana	from mid-November

The Adana Greater Municipality approved the proposal.

2.8 The Steering Committee

The study team requested the Turkish side to inform the team the member of the steering committee which may consist of the representative of following governmental agencies by the end of August 1998. This committee is empowered for the recommendations of the study.

- a) The Ministry of Environment
- b) State Planning Organisation (SPO)
- c) Adana Province Government
- d) Mersin Province Government
- e) Adana Greater Municipality
- f) Mersin Greater Municipality

3. CONCLUSION

- 3.1 With the above clarifications and modification, the IC/R was approved by the Turkish side.

D10-18

[Handwritten signatures and initials]

Attendance List

Turkish Side

Ministry of Environment

Ümit GENÇ	Head, Waste Management Department
Ergin HÜSMEN	Chief, Waste Management Department
Melahat ÖZOĞLU	Chemical Engineer
Suat HACIHASAOĞLU	Environmental Specialist
Filiz BAYCAN	Environmental Engineer
Hakan ÇELİK	Hydrogeological Engineer
Ali İhsan DOĞAN	Agricultural Engineer
Hülya ÇAKIR	Environmental Engineer

Adana Greater Municipality Environmental Advisory Committee

Hunay EVLİYA	Director, Çukurova University Centre for Environmental Studies
--------------	--

Adana Greater Municipality

Nurettin ÇELMEOĞLU	Foreign Relations Advisor of Mayor
Necati CENGİZ	Advisor of Mayor
Fahrettin AŞIÇI	Director, Environmental Protection Department
Hülya KUŞ	Chemist, Environmental Protection Department

Icel (Mersin) Province

Mürüvet KORKMAZ	Environmental Department of the Government
-----------------	--

Mersin Greater Municipality

İlhan SAYAN	Consultant to the Mayor
Zuhal ÖZANANAR	Environmental Department
Özlem GÜROL	Environmental Conservation Department
Cansen SAYILGAN	City Planner

Toroslar District Municipality

Mustafa ONGUN	Deputy Mayor of the District
Abdullah ERDEVİREN	Cleansing Department
Osman GÜNAY	Map & Geological Department

Yenisehir District Municipality

M. Adnana ÖZÇELİK	District Mayor
-------------------	----------------

Y. Ö. A. E. S. D. S.

Japanese Side

JICA Advisory Committee

Takashi IKEGUCHI
Kazuchika SATO

Chairman & Solid Waste Management Plan
Organisational and Institutional Development Plan

JICA Tokyo Office

Taketo KUROKI

Second Development Study Division, Social Development
Study Department

JICA Turkey Office

Dr. Nurettin ELBİR

Consultant to JICA Ankara office

JICA Study Team

Susumu SHIMURA
Shinya KAWADA
Takeshi TOMIYASU
Taylan DERICIOĞLU
Jun TANIMIZU
Tomomi KITAJIMA

Team Leader & Solid Waste Management Plan
Environmental Consideration
Disposal Plan & Medical Waste Plan
Organisational and Institutional Development Plan
Public Education & Participation Plan
Administrative Co-ordinator

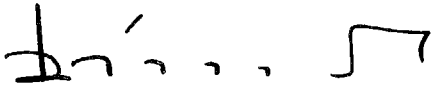
D10-20

Handwritten signatures and initials:
S.V. #92 S bis.

**MINUTES OF MEETING
ON
THE PROGRESS REPORT (1)
OF
THE STUDY ON REGIONAL SOLID WASTE MANAGEMENT
FOR
ADANA-MERSIN
IN
THE REPUBLIC OF TURKEY**

**AGREED UPON BETWEEN
THE MINISTRY OF ENVIRONMENT
AND
JICA STUDY TEAM**

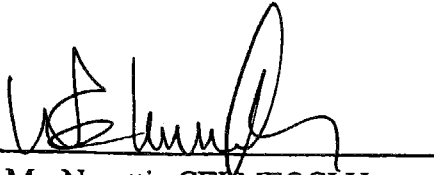
Ankara, November 17th, 1998




Dr. Ilker BASAYDIN
Deputy Undersecretary
The Ministry of Environment



Mr. Susumu SHIMURA
Leader of JICA Study Team



Mr. Nurettin ÇELMEOĞLU
Foreign Relations Consultant of
Adana Greater Municipality
On behalf of Mayor



Mr. Ilhan SAYAN
Consultant of Mayor of
Mersin Greater Municipality
On behalf of Mayor

**MINUTES OF MEETING ON THE PROGRESS REPORT (1) OF
THE STUDY ON REGIONAL SOLID WASTE MANAGEMENT
FOR ADANA-MERSIN IN THE REPUBLIC OF TURKEY**

1. INTRODUCTION

1.1 The Study Team has submitted twenty (20) copies of the Progress Report (1) to the Government of the Republic of Turkey. Consequently a series of meetings were held from November 10th to 17th in Ankara, Adana and Mersin in Turkey to discuss the report submitted. A list of officials attending in the above meetings is given in the Appendix 1.

2. ISSUES AND DECISIONS

2.1 Various issues were discussed and clarifications on the Progress Report (P/R) (1) were made. Subsequently appropriate consensus was reached during the meetings. These issues, clarifications and consensus are outlined in the following paragraphs.

2.2 Turkish Version of Reports

It is evident to all the parties that various governmental organisations are involved in the study and it requires a certain consensus among them for smooth conduct of the study. The Turkish side, therefore, suggested the Study Team to prepare at least Turkish summary of every report.

The Team replied they will convey the suggestion to the JICA headquarters.

2.3 SWM M/P Concept

The Study Team proposed the concept of the SWM Master Plan (M/P) for both Adana and Mersin Greater Municipalities (GM) as described in the Chapter 7 and 8 of the P/R (1).

Turkish side expressed their agreement in principal adding that all parties should jointly be envisaging the most appropriate solutions throughout the period of the study.

W.D.1

27 bis. E-

2.4 The Priority Projects for the Feasibility Study (F/S)

Based on the SWM M/P concept mentioned above and the evaluation of the candidate SWM facility's sites, the Team proposed to conduct the F/S for:

1. The extended use of the present Sofulu disposal site as the final disposal site of Adana GM and construction at the same site of a by-product plant with appropriate recycling facilities. It is foreseen that this site shall be capable for a further 10 years operation after the indispensable rehabilitation. Both the rehabilitation and further use of the Sofulu area shall be in strictly confirming with the relevant regulations as to the site selection and the construction.
2. The construction of a disposal site at the ÇİMSA site as the Mersin disposal site and construction of a composting plant with appropriate recycling facilities at the same site.


Turkish side accepted the proposal.

2.5 Administrative Procedures for the F/S

In the second phase, the F/S for the construction of SWM facilities at the candidate sites mentioned above will be conducted. Topographic survey, geological investigation and environmental survey will be carried out on the candidate sites from mid-February 1999 if JICA's approval is obtained. The Team requested the Turkish side to take the following administrative procedures prior to the commencement of the F/S (the beginning of the second study work in Turkey) in Adana and Mersin GMs.

- Gain the consensus of the residents living nearby the candidate sites for SWM facility construction.
- Obtain the permission of the owners of the candidate sites for SWM facility construction for the conduct of topographic survey, geological investigation and environmental survey.

The Turkish side agreed the proposal.


19.13.2

2.6 Pilot Projects

Although the implementation of the pilot projects is subject to the approval of JICA headquarters, the Study Team proposed to conduct the following pilot projects to be implemented jointly by the Turkish side (mainly Adana and Mersin GMs) and the Team during the second and third study works in Turkey (from mid-February to end of March 1999 and early May to mid-June 1999) if the proposal is approved by the JICA.

- Urgent Improvement of the Sofulu Disposal Site (for Adana GM) along with the studies covering the consumption or marketability of the by-products.
- Improvement of Compost Quality and Verification of its Marketability (for Mersin GM)

The Turkish side approved the proposal.

2.7 Selection of Items for EIA

The items to be subject to the EIA (Environmental Impact Assessment) should have been as instructed by the Ministry of Environment, but to proceed with the study, the items were selected by the Study Team based on the JICA guidelines for environmental considerations for the conduct of development studies.

In Adana, an F/S will be carried out on the present Sofulu disposal site. The EIA for the use of this disposal site will cover the following items:

- Economic activities
- Public health
- Hazards/risks
- Topographic and geological conditions
- Groundwater resource conditions
- Hydrological conditions
- Fauna and flora
- Landscape/aesthetics
- Air pollution
- Water pollution
- Soil contamination
- Noise and vibration
- Offensive odour

In Mersin, an F/S will be carried out for the construction of a disposal site in ÇIMSA. The EIA for the construction of this disposal site will cover the following items:

- Economic activities
- Traffic and public facilities

WEL
\$9 bis. 3

- Public health
- Hazards/risks
- Groundwater resource conditions
- Hydrological conditions
- Fauna and flora
- Landscape/aesthetics
- Air pollution
- Water pollution
- Soil contamination
- Noise and vibration
- Offensive odour

The EIA of the compost and/or other facilities shall be made within the scope of the EIA to be conducted for the landfill area. The Ministry of Environment (MoE) has in general found the items given above to be adequate. However, the EIA report to be issued by the Study Team shall comply the format to be given by the MoE.

2.8 **Comments on the P/R (1)**

The Study Team requested the Turkish side that all comments by the Turkish side to the P/R (1) should be given to the Study Team Adana Office by 30 November, 1998 if they are to be considered by the Team for the preparation of the Interim Report.

The Turkish side approved the request.

3. **CONCLUSION**

- 3.1 With the above clarifications and modification, the P/R (1) was approved by the Turkish side.



dis. E

D10-25

LIST OF ATTENDANTS

< Turkish Side >

Ministry of Environment

Ilker BASAYDIN

Sami AGIRGUN

Umit GENÇ

Hakan ÇELİK

Deputy Undersecretary

General Director, Directorate of Environmental
Pollution Prevention and Control;

Head, Waste Management Department

Hydrogeology Engineer

Adana Greater Municipality

Nurettin ÇELMEOĞLU

Fahrettin ASIÇI

Hulya KUS

Foreign Relations Consultant of Mayor

Director, Environmental Protection Department

Chemist, Environmental Protection Department

Içel Province

Zeynep YALDIZ

Engineer, Içel Province Environmental
Department

Mersin Greater Municipality

Ilhan SAYAN

O. Necat KEYKUBAT

Zuhal OZANANAR

Feray ALTUG

Consultant of Mayor

Director, Special Project Department

Environmental Department

Environmental Department

< Japanese Side >

JICA Study Team

Susumu SHIMURA

Shinya KAWADA

Jacob S. PEDERSEN

Kamil S. SORGUN

Naofumi SATO

Kozo BABA

Leader of JICA Study Team


Environmental Consideration

Disposal Plan (1) & Recycling Plan

Collection and Haulage Plan

Facility Design & Cost Estimation

Management and Financial Plan

 Susumu Shimura

K. Taylan DERICIOGLU

Organisational and Institutional Development
Plan

JICA Turkey Office

Nurettin ELBIR

Consultant

Handwritten signature: K. Taylan DERICIOGLU

D10-27

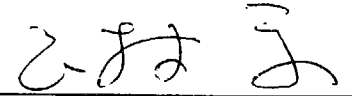
MINUTES OF MEETING
ON
THE INTERIM REPORT
OF
THE STUDY ON REGIONAL SOLID WASTE MANAGEMENT
FOR
ADANA-MERSIN
IN
THE REPUBLIC OF TURKEY

AGREED UPON BETWEEN
THE MINISTRY OF ENVIRONMENT
AND
JICA STUDY TEAM

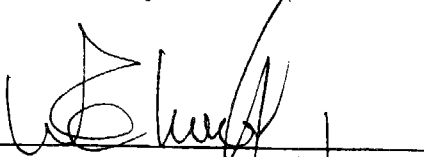
Ankara, March 2nd, 1998



Dr. Ilker BASAYDIN
Deputy Undersecretary
The Ministry of Environment



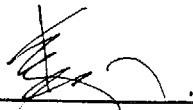
Mr. Susumu SHIMURA
Leader of JICA Study Team



Mr. Nurettin ÇELMEOĞLU
Foreign Relations Advisor of
Adana Greater Municipality
On behalf of Mayor



Mr. Takashi IKEGUCHI
Section Chief, Waste
Disposal Engineering Section,
National Institute of Public
Health Department of Waste
Management Engineering



Mr. Ilhan SAYAN
Consultant of Mayor of
Mersin Greater Municipality
On behalf of Mayor