

**I. INTRODUCTION**

In response to the official request of development studies from the Government of Kingdom of Morocco (hereinafter referred to as "the Government of Morocco"), the Government of Japan decided to conduct technical cooperation for the Study on the Integrated Water Resources Management Plan in the Haouz Plain (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 the authorities concerned of the Government of Morocco.

The present document sets forth the scope of work with regard to the Study and will be valid after the notification of approval by the JICA headquarters through the JICA Morocco office to the Government of Morocco.

**II. OBJECTIVES OF THE STUDY**

The objectives of the Study are:

1. to formulate a master plan for the integrated water resources management in the Haouz Plain, and;
2. to transfer relevant skills and technologies to personnel concerned with the Study

**III. STUDY AREA**

The Study will cover the Haouz Plain as shown in Annex-1.

**IV. SCOPE OF THE STUDY**

The Study is divided into the following two (2) phases: Phase 1 is for understanding of present and future conditions, and Phase 2 is for formulation of the master plan for the integrated water resources management.

The scope of work for the Study shall cover the following items:

Phase 1: Understanding of Present and Future Conditions

1. Collection and review of existing data
  - (1) Socio-economic conditions (administrative division, population, industry, etc.)
  - (2) Socio-economic development plans and other development policies/plans
  - (3) Natural conditions (hydrogeology, meteorology, hydrology, land use, etc.)

(1)

**SCOPE OF WORK**

FOR

THE STUDY

ON

THE INTEGRATED WATER RESOURCES MANAGEMENT PLAN

IN THE HAOUZ PLAIN IN THE KINGDOM OF MOROCCO

AGREED UPON BETWEEN

THE MINISTRY OF LAND MANAGEMENT, WATER AND ENVIRONMENT

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Rabat, September 27, 2005

Mr. Mohamed Aneur  
Secretary General  
Ministry of Land Management, Water  
and Environment, Kingdom of Morocco  
au Ministère, de l'Éau et de  
l'Environnement et par Désignation  
Le Secrétaire Général



Mr. Nagata Kenji  
Leader of the Preparatory Study Team  
Japan International Cooperation Agency

Signé: Mohammed AMEUR

- (4) Present water use conditions
  - (5) Irrigation and water-use facilities as well as water users' association
  - (6) Actual conditions of farmer's water use and consciousness on water issue
  - (7) Groundwater level/flow, present abstraction amount and groundwater problems
  - (8) Traditional waterways (Khettrara) and its usage
  - (9) Review of existing projects and studies concerning with water resources
  - (10) Existing legal framework for water resources development and management as well as water supply and sanitation
  - (11) Existing institutional framework for operation, maintenance and management relevant to water resources
  - (12) Existing database related to water resources management
2. Study on water resources potential
- (1) Groundwater, surface water, rainwater, treated/untreated waste water
  - (2) Water quality
  - (3) Present groundwater recharge
  - (4) Numerical modeling of groundwater basin (groundwater aquifer modeling, hydro-geological coefficients, model calibration)
  - (5) Hydrological water balance
  - (6) Sustainable water resources potential
3. Water demand projection
- (1) Domestic use
  - (2) Agricultural use
  - (3) Industrial use
  - (4) Others (such as tourism)
4. Water balance study between water demand and potential
5. Study on the negative impacts to groundwater caused by over abstraction and effluent discharge
- (1) Groundwater level declination
  - (2) Depletion of groundwater potential
  - (3) Deterioration of groundwater quality
  - (4) Drying out of the existing wells
  - (5) Others
6. Stakeholder meetings (public participation)
- ✓ Problems and issues on groundwater management

(2)

**Phase 2: Formulation of the Master Plan for the Integrated Water Resources Management**

1. Setup of water resources management strategy

- ✓ Water resources development (groundwater, surface water, rainwater and treated/untreated waste water)
- ✓ Water supply and sanitation for urban and rural areas
- ✓ Irrigation water management
- ✓ Water resources conservation
- ✓ Groundwater management
- ✓ Possibility of waste-water reuse to irrigation
- ✓ Public participation into water resources management

2. Formulation of the master plan

(1) Proper groundwater utilization plan

- ✓ Definition of proper groundwater use concept to keep sound water cycle and natural/social environment as well as sustainable groundwater use
- ✓ Best mixed policy of water sources (groundwater and surface water) and water uses (agriculture, industry, people's lives, tourism, etc.)
- ✓ Formulation of groundwater utilization regulation
- ✓ Permission and prohibition on groundwater abstraction

(2) Groundwater monitoring plan

- ✓ Structure, distribution and number of monitoring wells
- ✓ Monitoring system
- ✓ Data arrangement and reporting
- ✓ Evaluation and recommendation

(3) Groundwater management plan

- ✓ Groundwater management method in cases of normal time, drought time and disaster time
- ✓ Possibility of artificial groundwater recharge
- ✓ Groundwater management manual
- ✓ Groundwater management system (responsible body/person for groundwater management, monitoring body/person, transmission of monitoring information, public relations and guidance)

(4) Plan for institutional and organizational strengthening

- ✓ Capacity development of Agency of the Tensift Hydraulic Basin (hereinafter

(3)

referred to as "ABHT")

- ✓ Plan for regulatory framework for water resources management especially conserving groundwater for sustainable use
- ✓ Public participation (communication and coordination among stakeholders, raising general awareness on water problems and solutions)
- ✓ Water demand management
- ✓ Saving of irrigation water use (improvement of irrigation efficiency, creating non-agriculture employment opportunities)

(5) Operation and maintenance plan

(6) Initial environmental examination (IEE)

Technical assistance on initial environmental examination (IEE) for environmental and social consideration (including public consultation with communities and stakeholders) shall be conducted for groundwater management.

(7) Implementation plan

(8) Cost estimate

3. Evaluation on the master plan

4. Proposal of action plans

(1) Selection of priority projects

(2) Action plans

5. Stakeholder meetings (public participation)

(1) Discussion on the master plan

(2) Discussion on the action plan

#### V. SCHEDULE OF THE STUDY

The Study will be carried out in accordance with the tentative schedule as attached in Annex-2. The schedule is tentative and subject to be modified when both parties agree upon any necessity that will arise during the course of the Study.

#### VI. REPORTS

JICA shall prepare and submit following reports in English to the Government of Morocco.

1. Inception Report:

Twenty (20) copies will be submitted at the commencement of the phase 1 work period in Morocco. This report will contain the schedule and methodology of the Study.

2. Progress Report I:

Twenty (20) copies will be submitted at the time of fourth (4th) month after the commencement of the phase 1 work period in Morocco.

3. Interim Report:

Twenty (20) copies will be submitted at the end of the phase 1 work period. This report will summarize the findings of the phase 1 of the Study. The discussion on it will be held at the beginning of the phase 2 work period.

4. Progress Report II:

Twenty (20) copies will be submitted at the time of about fourth (4th) month after the commencement of the phase 2 work period in Morocco.

5. Draft Final Report:

Twenty (20) copies will be submitted at the end of the phase 2 work period in Morocco. The Government of Morocco shall submit its comments within one (1) month after the receipt of the Draft Final Report.

6. Final Report:

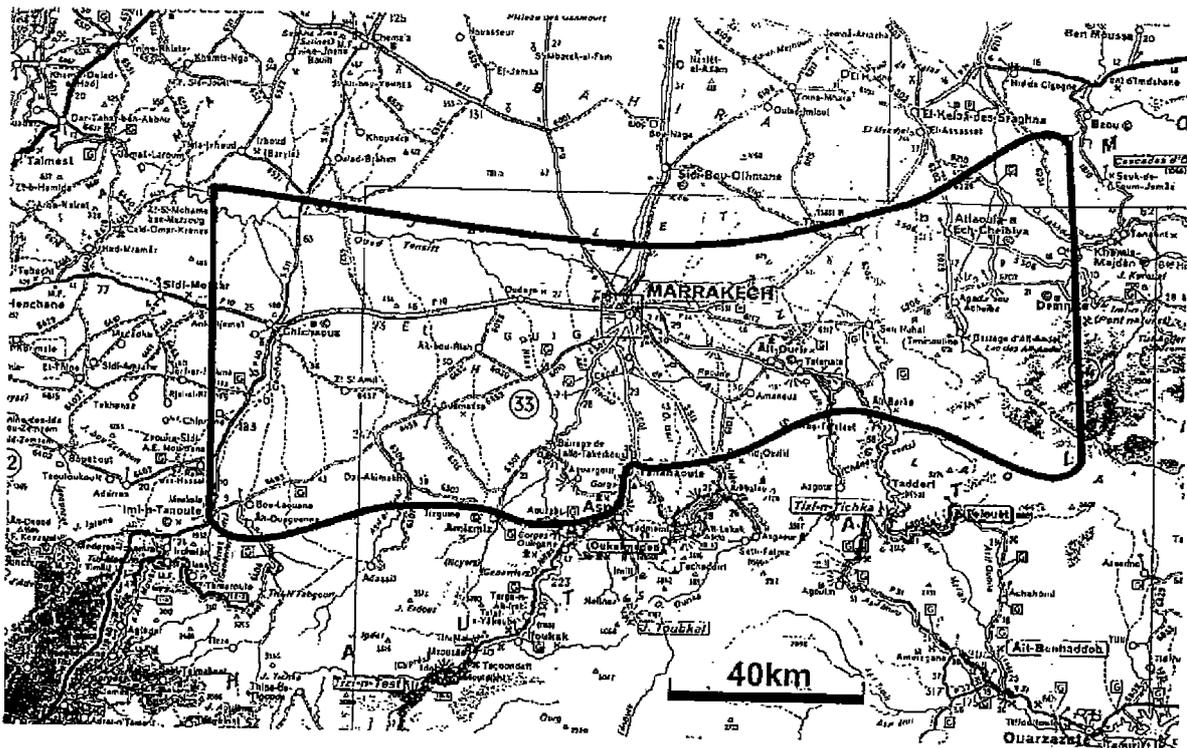
Thirty (30) copies will be submitted within one (1) month after the receipt of the comments on the Draft Final Report.

#### VII. UNDERTAKINGS OF THE GOVERNMENT OF MOROCCO

1. To facilitate the smooth conduct of the Study; the Government of Morocco shall take necessary measures:

- a. to secure safety of the Japanese study team (hereinafter referred to as "the Team");
- b. to permit the members of the Team to enter, leave and sojourn in Morocco for the duration of their assignments therein, and exempt them from foreign registration requirements and consular fees;
- c. to exempt the members of the Team from taxes, duties and any other charges on equipment, machinery and other material brought into and out of Morocco for the implementation of the Study;
- d. 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;
- e. to provide necessary facilities to the Team for the remittance as well as utilization of the funds introduced into Morocco from Japan in connection with the implementation of the

Annex I: Study Area with rough border



(7)

Study;

- f. to secure permission for the Team to enter into private properties or restricted areas for the implementation of the Study;
  - g. to secure permission for the Team to take all data and documents including photographs and maps related to the Study out of Morocco to Japan;
  - h. to provide medical services as needed. Its expenses will be charged on the members of the Team.
2. The Government of Morocco 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 Team.
3. On the parts of the Government of Morocco, ABHT, under the Ministry of Land Management, Water and Environment, shall act as the counterpart agency to the Team for the Study and also as the coordinating body in relation to other governmental and non-governmental organizations concerned for the smooth implementation of the Study.
4. Ministry of Land Management, Water and Environment of Morocco shall, at its own expense, provide the Team with the following, in cooperation with other organizations concerned:
- a. Security-related information on as well as measures to ensure the safety of the Team;
  - b. Information on as well as support in obtaining medical services;
  - c. Available data (including maps and photographs) and information related to the Study;
  - d. Counterpart personnel;
  - e. Suitable office space with necessary equipment; and
  - f. Credentials or identification cards.

VIII. CONSULTATION

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

(6)

MINUTES OF MEETINGS

ON

THE SCOPE OF WORK

FOR

THE STUDY ON THE INTEGRATED WATER RESOURCES MANAGEMENT PLAN  
IN THE HAOUZ PLAIN IN THE KINGDOM OF MOROCCO

AGREED UPON BETWEEN

THE MINISTRY OF LAND MANAGEMENT, WATER AND ENVIRONMENT

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

Rabat, 27 September 2005

Le Secrétaire Général  
de l'Agence Marocaine  
de l'Aménagement  
du Territoire, de l'Eau et de  
l'Environnement

Mr. Mohamed AMEUR

Mr. Mohamed Ameur  
Secretary General

Ministry of Land Management, Water and  
Environment, Kingdom of Morocco

Mr. Nagata Keriji

Leader of the Preparatory Study Team  
Japan International Cooperation Agency



Annex-2: Tentative Schedule

Tentative Schedule

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Phase	Phase 1									Phase 2																
Work in Morocco	[Hatched]									[Hatched]																
Work in Japan	[Box]								[Box]											[Box]						
Report Presentation	▲		▲				▲			▲						▲		▲								
	IC/R		PG/R1				IT/R			PG/R2						DF/R		F/R								

- IC/R: Inception Report
- PG/R1: Progress Report I
- IT/R: Interim Report
- PG/R2: Progress Report II
- DF/R: Draft Final Report
- F/R: Final Report

In response to the official request of the Government of the Kingdom of Morocco (hereinafter referred to as "the Government of Morocco"), the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Preparatory Study Team, headed by Mr. Nagata Kenji (hereinafter referred to as "the Team"), to Morocco from September 19 to October 8, 2005 to discuss the Scope of Work (hereinafter referred to as "S/W") for the Study on the Integrated Water Resources Management Plan in the Haouz Plain (hereinafter referred to as "the Study").

During its stay in Morocco, the Team carried out field surveys and held a series of discussion with the officials of Ministry of Land Management, Water and Environment (hereinafter referred to as "MATEE"), Agency of the Tensift Hydraulic Basin (hereinafter referred to as "ABHT"), and other authorities concerned with water resources. The list of those who attended these meetings is shown in the Appendix.

The Minutes of Meetings have been prepared for the better understanding of the S/W agreed upon between MATEE and the Team on September 27, 2005. The main items that were discussed and agreed by the Moroccan side and the Team (hereinafter referred to as "the Both Sides") are as follows.

#### 1 STUDY AREA

The Both Sides agreed that the target area of the Study was Haouz Plain, which includes the administrative regions of Al Haouz Provinces, Marrakech Prefecture and parts of the provinces of Chichaoua and Et Kelaa Sraghna.

#### 2 STUDY IMPLEMENTATION FRAMEWORK

The Both Sides agreed that ABHT would organize and chair the steering committee, technical committee and counterpart team to coordinate the Moroccan institution for smooth implementation of the Study

##### 1) Steering Committee

The member would be MATEE and ABHT

##### 2) Technical Committee

The member would be ABHT, ONEP, ORMVAH, RADEMA, DPA and other organizations relevant to water resources.

##### 3) Counterpart Team

Counterpart Team would be organized by ABHT.

#### 3 SCOPE OF THE STUDY

The Both Sides confirmed that:

- 1) The master plan for the integrated water resources management in the Haouz Plain is formulated in order to find the procedure and measures to effectively and efficiently utilize various-but-limited water resources in the area, especially preventing depletion and difficulty in groundwater resources.

and enabling sustainable use of groundwater resources for peoples' life and agriculture;

- 2) Groundwater resources management has to be considered in the integrated management for all the water resources. Thus the strategy of the integrated water resources management has to be carefully studied and formulated based on present/expected conditions on water resources potential/demand as well as stakeholders' opinions;

- 3) In the Study, structural measures and non-structural measures should be proposed in a well-balanced manner, and have to be supported by the stakeholders.

#### 4 STAKEHOLDERS' INVOLVEMENT IN WATER RESOURCES MANAGEMENT

The Both Sides shared the same opinion that stakeholders' involvement in water resources management is very important and should be positively introduced to formulate the master plan and the action plan. The Both Sides agreed that a stakeholders' meeting was one of the opportunities to participate in preparing the master plan and the action plan, and ABHT would lead stakeholders' meetings and the JICA would support them.

#### 5 CAPACITY DEVELOPMENT FOR ABHT

The Moroccan Side emphasized necessity of the capacity development for ABHT not only in the technical aspect but also administrative aspect since ABHT was newly set up. The capacity development includes;

- 1) Training of counterpart personnel in Japan

The Moroccan Side requested JICA to conduct training of counterpart personnel in Japan for the effective technology transfer. The Team admitted the needs of the counterpart training in Japan and promised to convey the request to the JICA Headquarters.

- 2) Seminars/Workshops

The Moroccan Side requested that joint seminars and workshops would be held during the course of the Study for better understanding of the Study results. The Team recognized the necessity and agreed to convey this request to the JICA Headquarters.

- 3) Equipment for the Study

The Moroccan Side requested JICA to support ABHT with equipment such as water quality measurement apparatus, automatic groundwater level recorders, vehicles to collect the data, and computers for data storage and analysis as well as technical software. The Team recognized the necessity of equipment that is needed for implementation of the study, and agreed to convey this request to the JICA Headquarters.

Appendix

List of Attendants

(Moroccan Side)

Ministry of Land Management, Water and Environment (MATEE) of Rabat

Mr. Mohamed Ameur: Secretary General  
Mr. Benbiba Majid: Director of Water Research and Planning  
Mr. Khabote Abdallah: Technical advisor of MATEE

Agency of the Tensif Hydraulic Basin (ABHT) of Marrakech

Mr. Mohammed Chitoui: Representatives of Director  
Mr. Brahim Berjamy: Chief, Information System Communication and Cooperation Division  
Mr. Mohammed El Hassan Avesmouk: Chief, Water Resources Development Division  
Mr. Linam Mabil: Chief, Water Resources Management Service  
Mr. Abdelmajid Naimi: Chief, Public Hydraulic Domain Division  
Mr. Abderrahim Lachguer: Engineer of Water Quality

(Japanese Side)

Preparatory Study Team

Mr. Nagata Kenji: Leader  
Ms. Yamashita Akira: Study Planning  
Mr. Suga Makoto: Groundwater Management / Hydrogeology  
Mr. Toyooka Nobuki: Institution / Environmental and Social Consideration

JICA Expert

Mr. Uemura Mitsuro: JICA Expert at Ministry of Land Management, Water and Environment, Kingdom of Morocco

JICA Morocco Office

Mr. Obata Eihiko: Deputy Manager

6 REPORTS

The Moroccan Side requested that all the reports including hard copies and soft copies shall be prepared not only in English but also in French. The Team recognized the necessity and agreed to convey this request to the JICA Headquarters. The numbers of the reports requested are as follows:

- Inception Report, Progress Report I and II, Interim Report and Draft Final Report: five (5) copies in English and twenty (15) copies in French;
- Final Report: ten (10) copies in English and thirty (30) copies in French.

7 SHORTENING OF THE STUDY PERIOD

The Moroccan Side requested that the period of the phase 1 should be shortened because the data and information was adequately accumulated through the studies and investigations on water resources in the Haouz Plain. The Team promised to consider the study period based on the investigation results of the preparatory study.

8 EARLY IMPLEMENTATION OF THE MASTER PLAN AND THE ACTION PLAN

The Moroccan Side said that it would like to realize priority projects/programs to be proposed in the master plan and the action plan as soon as possible, and requested JICA to assist the implementation of the priority projects/programs. The Team admitted the necessity of the early implementation of them and promised to convey this request to the JICA Headquarters.

9 DISCLOSURE OF INFORMATION

The Both Sides confirmed that the disclosure of information such as the study reports is necessary to ensure the participation and dialogues with various stakeholders.

10 S/W and M/M

The Both Sides agreed that the English versions of S/W and M/M would prevail, when there would be a discrepancy in the interpretation.

MINUTES OF MEETING  
ON  
PROGRESS REPORT (2)  
FOR

THE INTEGRATED WATER RESOURCES MANAGEMENT PLAN  
IN THE HAOUZ PLAIN  
IN THE KINGDOM OF MOROCCO  
AGREED UPON BETWEEN

MINISTRY OF LAND MANAGEMENT, WATER AND ENVIRONMENT  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY

Marrakech, August 15, 2007

In accordance with the Scope of Work for the Study on the Integrated Water Resources Management Plan in the Haouz Plain in the Kingdom of Morocco (hereinafter referred to as "the Study"), the Government of Japan, through Japan International Cooperation Agency (hereinafter referred to as "JICA"), dispatched to the Kingdom of Morocco the Study Team, headed by Mr. Matsumoto Keiji, for the second field survey of the Study, during the period of May 8 to August 24, 2007.

The Study Team and Moroccan counterpart made discussion based on the draft Progress Report (2) at the office of the Agency of the Tensift Hydraulic Basin (hereinafter referred to as "ABHT") and at the third stakeholder meeting. Finally the Study Team submitted officially twenty five (25) copies in French and five (5) copies in English of the Progress Report (2). The Study Team had explained the integrated water resources management strategy, the draft Master Plan for the integrated groundwater management, the major contents of the draft final report and the basic concept of the action plan in the presence of Moroccan counterparts on August 15, 2007 at the ABHT. Annex shows the list of participants.

As a result of the explanations and exchange of opinions on the Progress Report (2), the Moroccan side and Japanese side agreed upon the following points:

1. ABHT confirmed that the contents of the Progress Report (2) were prepared based on the conditions set forth in the Scope of Work for the Study and accepted that the Study Team will proceed to the next stage of the preparation of the draft final report.
2. The ABHT will gather and transmit the comments on the Progress Report (2) to the Study Team by September 25, 2007 at the latest.

Mr. Chafiqi Mohammed  
Director  
Agency of the Tensift  
Hydraulic Basin

*Amr el-Mirghani*  
*de Seret*  
  
Signature: JICA Morocco

  
Mr. Matsumoto Keiji  
Team Leader  
Study Team  
Japan International Cooperation  
Agency

PARTICIPANTS LIST

(Moroccan Side)

Agency of the Tensift Hydraulic Basin (ABHT) at Marrakech

Mr. Chitou Mohammed	Director of ABHT
Mr. Jida Mohammed	Deputy Director of ABHT
Mr. Aresmouk Mohammed El Hassan	Chief, Water Resources Development Division
Mr. Naimi Abdelmajid	Chief, Public Hydraulic Domain Division
Mr. Berjamy Brahim	Chief, Information System Communication and Cooperation Division
M. LIMAM Nabli	Chief, Water Resources Management Service
Ms. Benhamen Mounia	Chief, Master Planning Service

Technical Committee

Mr. Souhail Abdellah	ONEP
Mr. Adil Daoudi	RADIERMA

(Japanese Side)

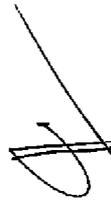
Study Team

M. Maisunoto Keiji	Team Leader
M. Oshika Yusuke	Member
M. Bertone Francois	Member
M. Nozaki Yutaka	Member
M. Ono Takeshi	Member
M. Watanabe Naohito	Member
M. Tsuchida Kazuhiro	Member
M. Takasugi Masaharu	Member
Mr. Fukazawa Tomoo	Member

MINUTES OF MEETING  
ON  
DRAFT FINAL REPORT  
FOR  
THE INTEGRATED WATER RESOURCES MANAGEMENT PLAN  
IN THE HAOUZ PLAIN IN THE KINGDOM OF MOROCCO  
AGREED UPON BETWEEN

THE STATE SECRETARY TO THE  
MINISTRY OF ENERGY, MINES, WATER AND ENVIRONMENT, IN CHARGE  
OF WATER AND ENVIRONMENT  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY

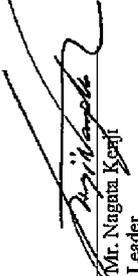
Rabat, November 30, 2007

  
Mr. Berraha Majid  
Director  
Water Research and Planning,  
The State Secretary in Charge of Water  
and Environment,  
Ministry of Energy, Mines,  
Water and Environment,  
Kingdom of Morocco

  
Mr. Matsumoto Keiji  
Team Leader  
Study Team  
Japan International Cooperation  
Agency

Witnessed by

  
Mr. Chitoui Mohammed  
Director  
Agency of the Tensift  
Hydraulic Basin

  
Mr. Nagata Kenji  
Leader  
Advisory Team  
Japan International Cooperation  
Agency

In accordance with the Scope of Work for the Study on the Integrated Water Resources Management Plan in the Haouz Plain in the Kingdom of Morocco (hereinafter referred to as "the Study"), the Government of Japan, through Japan International Cooperation Agency (hereinafter referred to as "JICA"), dispatched to the Kingdom of Morocco the Study Team, headed by Mr. Matsumoto Keiji during the period of September 2006 to November 2007. After completion of the First and Second Field Survey of the Study, the Study Team has started the Third Field Survey of the Study in the Kingdom of Morocco from November 22, 2007. The Study Team officially submitted thirty (30) copies of the Draft Final Report, of which twenty five (25) are in French and five (5) are in English, to the Agency of the Tensift Hydraulic Basin (hereinafter referred to as "ABHT"), and presented the contents of the Draft Final Report in the presence of the JICA Advisory Team, headed by Mr. Nagata Kenji (hereinafter referred to as "Advisory Team"), to the Counterparts of ABHT and the Technical Committee on November 27, 2007 at the ABHT, and to the Steering Committee on November 29, 2007 at the State Secretary in Charge of Water and Environment. Annex shows the list of participants.

After presenting the contents of the Draft Final Report, the Study Team and Advisory Team (hereinafter referred to as "the Japanese side") exchanged opinions on the Draft Final Report with ABHT, Technical Committee and the Steering Committee (hereinafter referred to as "the Moroccan side"). As a result, both sides agreed upon the following points:

1. The Moroccan side confirmed that the contents of the Draft Final Report were prepared based on the conditions mentioned in the Inception Report, agreed upon and signed by the Moroccan side and Study Team on September 21, 2006.
2. Both sides agreed that the following points shall be reviewed and described in detail.
  - Design of the projects and programs of the Master Plan and the Action Plan including the concrete activities, timeframe, annual budget requirement and possible financial sources.
  - Evaluation of individual projects and programs indicated in the Master Plan and the Action Plan.
  - The selection of priority projects and programs for the Action Plan.
3. Remarks from the members of the Steering Committee regarding the Draft Final Report will be submitted in a written form to the Study Team by 30 December 2007.
4. The Draft Final Report will be revised based on the above and submitted by the Study Team to the Moroccan side in mid January of 2008.
5. The comments on the Revised Draft Final Report will be provided to the Study Team in written comments by mid February 2008. Based on these comments, the Study Team will prepare the Final Report of the Study.



ANNEX: PARTICIPANTS LIST  
(Discussion at ABHT)

(Moroccan Side)  
Agency of the Tensift Hydraulic Basin (ABHT)  
Mr. Chitoui Mohammed Director  
Mr. Jida Mohammed Deputy Director  
Mr. Naimi Abdelmajid Chief, Public Hydraulic Domain Division  
Mr. Berjamy Brahim Chief, Information System Communication and Cooperation Division, ABHT  
Mr. Linnam Nabil Chief, Water Resources Management Service  
Ms. Mounia Benchanem Master Planning Service

Technical Committee  
Mr. Allali Ahmed DDR, Wilaya of Marrakech  
Mr. Sebbah Jiad DCL, Wilaya of Marrakech  
Ms. Hasni Yanna DPA, Marrakech  
Mr. Mohamed Tahiri Water Service of Al Haouz Province  
Ms. Najat Elhaououi Water Service of Marrakech Prefecture  
Mr. Farzadik Abderrahim ONEP, Marrakech  
Mr. Abdallah Souhail ONEP, Marrakech  
Mr. Sghir Fathallah ORMVAH  
Mr. El Khalouf Abdelghani ORMVAH  
Mr. Adil Daoudi RADEEMA  
Mr. Abderrahim Larass ONE, Takerkoust

(Japanese Side)  
Advisory Team  
Mr. Nagata Kenji Team Leader  
Ms. Yoshida Sanae Cooperation Planning

Study Team  
Mr. Matsumoto Keiji Team Leader  
Mr. Francois Beronc Member  
Mr. Ono Takeshi Member  
Mr. Watanabe Naohito Member

(GTZ)  
Mr. Miksch Siegfried Technical Consultant, GTZ




ANNEX: PARTICIPANTS LIST  
(Discussion at the State Secretary in Charge of Water and Environment)

(Moroccan Side)  
State Secretary in Charge of Water and Environment  
Mr. Benbiba Majid Chairperson, Director of Water Research and Planning  
Mr. Akraja Lahoussine Planning and Water Management Division / DRPE  
Mr. Lohmouri Abdouin Water Resources Division / DRPE  
Mr. Benjeloun Omar Planning and Water Management Division / DRPE  
Ms. Lyazidi Rachida Hydro-geologic Service / DRPE

Steering Committee  
Mr. El Khayat Abdelkrim Chief of Water Resources Coordination Division, ONEP  
El Boujdaini Najah ONEP  
Belhiti Mohammed Administration of Rural Engineering / Ministry of Agriculture and Maritime Fisheries

Agency of the Tensift Hydraulic Basin (ABHT) at Marrakech  
Mr. Linnam Nabil Chief, Water Resources Management Service

(Japanese Side)  
Advisory Team  
Mr. Nagata Kenji Team Leader  
Ms. Yoshida Sanae Cooperation Planning

JICA Morocco Office  
Mr. Egusa Toshifumi Deputy Representative

Study Team  
Mr. Matsumoto Keiji Team Leader  
Mr. Francois Bertone Member  
Mr. Ono Takeshi Member  
Mr. Watanabe Naohito Member