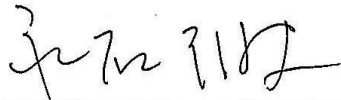


An UNDERSTANDING
for
PROCEDURE of SIGNING and EXCHANGING
on
The SCOPE OF WORK and MINUTES OF MEETINGS
for
A STUDY
of
SEISMIC MICROZONING OF ALGIERS,
PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA
agreed upon between
Ministry of Foreign Affairs
and
Japan International Cooperation Agency

Algiers, August 1, 2004

Mr. Hamza Yahia CHERIF
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In response to the official request of the Government of the People's Democratic Republic of Algeria (hereinafter referred to as "Algeria"), the Government of Japan decided to conduct a Study of Seismic Microzoning of Algiers (hereinafter referred to as "the Study") and the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the preparatory study team (hereinafter referred to as "the Team"), headed by Mr. Nagaishi Masafumi, to Algeria from July 24 to August 1, 2004 to discuss the Scope of Work (hereinafter referred to as "S/W") for the Study.

During the period of the preparatory study, although the Government of Algeria and the Team had a series of discussions, the Government of Algeria and the Team did not reach signing the S/W and Minutes of Meetings (hereinafter referred to as "M/M"). The situation is as follows;

- Since the objectives of the Study are not only to prepare seismic microzonation maps but also to suggest disaster management for Algiers, there are a lot of relevant Algerian organizations for the Study such as Ministry of Land Management and Environment, Ministry of Interior, and Local Government of Algiers Province,
- In order to conduct the Study smoothly, it is important and necessary to share the information of the Study and to obtain a basic agreement on the Study among the relevant Algerian organizations before signing the S/W,
- In addition to the information sharing and a basic agreement, Ministry of Housing and Urban Affairs, which is one of Algerian counterpart organizations for the Study, have to obtain an approval regarding tax exemption for the Study team from Ministry of Finance which has responsibilities for taxes, and
- It is impossible to obtain a basic agreement from the relevant Algerian organizations and to obtain the approval regarding taxes from Ministry of Finance by August 1, 2004 because of limitation of the time, while the Team was expecting to sign and exchange the S/W.

Although the Team leader who has a responsibility for signing them has to leave Algeria on August 1, 2004, it is necessary to sign and exchange the S/W and M/M as soon as possible to prepare the Study,

The present document sets forth a basic understanding between Ministry of Foreign Affairs and the Team regarding the procedure to sign and exchange the S/W and M/M after the Team leader leaves Algeria.

1. Responsibilities of Ministry of Housing and Urban Affairs

Ministry of Housing and Urban Affairs is the focal point of the Study as Algerian counterpart organizations and has responsibilities as follows;

- 1) Coordination among the relevant Algerian organizations for smooth implementation of the Study,
- 2) Making any decision for the Study except financial issues, and
- 3) Taking the initiative in implementation of the Study.

2. Responsibilities of Ministry of Foreign Affaires

Ministry of Foreign Affaires has responsibilities as follows;

- 1) To support Ministry of Housing and Urban Affaires if any difficulties of the procedure are found, and
- 2) To coordinate between Ministry of Housing and Urban Affaires and the Japanese side if necessary.

3. Position of the S/W and M/M

The S/W is a document which shows the framework and the contents of the Study, and is not diplomatic correspondence but just an agreement on the Study between Algerian counterpart organizations and the Team. Diplomatic correspondence for the Study is already exchanged between the Government of Algeria and the Government of Japan as a Note Verbal.

Also the M/M is not diplomatic correspondence, and is a document to support the S/W for better understanding by recording the process up to an agreement on the S/W.

4. Preparation of the Study

The Japanese side starts to prepare the Study after signing and exchanging the S/W and M/M.

5. Procedure for signing and exchanging the S/W and M/M

Ministry of Foreign Affaires and the Team agreed on the following procedure for signing and exchanging the S/W and M/M, and Ministry of Foreign Affaires support Ministry of Housing and Urban Affaires to facilitate the following procedure.

- 1) When all the relevant Algerian organizations agree on the S/W and M/M, the representatives, who are from Ministry of Housing and Urban Affaires, National Earthquake Engineering Research Center (C.G.S.), Ministry of Land Management and Environment, Ministry of Interior, and Ministry of Finance as mentioned on the cover page of the S/W and M/M, sign each three copies of them which the Team leaves.
- 2) After signing all copies of the S/W and M/M, Ministry of Foreign Affaires sends them to Embassy of Japan.
- 3) After the Team leader sign all copies of the S/W and M/M which are already signed by the representatives of Algerian side, Ministry of Foreign Affaires sends one each of them to

- Algerian counterpart organizations.
- 4) If Ministry of Housing and Urban Affaires faced any difficulties, for example, in the case that there are some modifications to be requested about the contents of the S/W and/or M/M, Ministry of Foreign Affaires and Embassy of Japan would discuss to solve them.



SCOPE OF WORK
for
A STUDY
of
SEISMIC MICROZONING OF ALGIERS,
PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA
AGREED UPON BETWEEN
Ministry of Housing and Urban Affairs
AND
Japan International Cooperation Agency

Algiers, August 1, 2004

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<Scope of Work>

I . INTRODUCTION

In response to the official request of the Government of the People's Democratic Republic of Algeria (hereinafter referred to as "Algeria"), the Government of Japan decided to conduct a Study of Seismic Microzoning of Algiers (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 Algeria.

The present document sets forth the Scope of Work with regard to the Study and will be valid after the approval by executive board of JICA.

II . OBJECTIVES OF THE STUDY

The objectives of the Study are;

1. To prepare seismic microzonation maps covering Algiers Province which shall be used to evaluate the human casualties and loss of properties due to earthquakes,
2. To suggest disaster management for Algiers, and
3. To pursue technology transfer to counterpart personnel in the course of the Study.

III . STUDY AREA

The Study area is Algiers Province as shown in ANNEX-1.

IV . SCOPE OF THE STUDY

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

- 1 Collection of existing data
 - 1.1 Geographical data and information:
topographical maps, aerial photographs, satellite images, etc.
 - 1.2 Seismological data and information:
strong ground motion records, historical earthquake and observed earthquake catalogues, history of active fault, etc.
 - 1.3 Geophysical, geotechnical and geological data and information
 - 1.4 Data and information of post earthquake assessments on structural damages and casualties
 - 1.5 Data and information of buildings, infrastructures and lifeline
 - 1.6 Data and information of social background:

population, land-use, system of lifeline and transportation, location of important buildings, governmental and non-governmental organizations (NGOs) related to disaster management, and community and neighborhood, etc.

- 2 Field survey
 - 2.1 Borings and soil tests
 - 2.2 Geophysical investigation (P-wave and S-wave velocities)
 - 2.3 Micro tremor observation
 - 2.4 Structures survey of buildings, infrastructures and lifeline:
materials, types, construction, etc.
 - 2.5 People's awareness on earthquake risk
- 3 Data analysis
 - 3.1 Earthquake scenario:
plate type and/or fault type earthquakes expected to cause serious damage at Algiers
 - 3.2 Ground response:
slope stability or bearing capacity and permanent displacement, liquefaction, surface acceleration, etc.
 - 3.3 Seismic vulnerability of buildings and infrastructure
 - 3.4 Social situations on earthquake risk management capacity
- 4 Seismic microzonation
 - 4.1 Evaluation of seismic hazard on the ground motion and liquefaction
 - 4.2 Estimation of structural performance against ground motion
 - 4.3 Estimation of earthquake risk on buildings, infrastructures and lifeline
 - 4.4 Estimation of earthquake risk on human casualties and secondary disasters
- 5 Evaluation of index on earthquake risk management
 - 5.1 Evaluation of disaster management capacity of governmental organizations
 - 5.2 Legal and administrative systems
building technical code, structural assessment method, etc.
 - 5.3 Financial capacity
 - 5.4 Community situation in disaster management
 - 5.5 Community awareness about earthquake disaster
- 6 Recommendation for earthquake disaster mitigation policy and administrative measures
 - 6.1 Improvement of existing buildings and future construction:
building code, quick inspection methods, strengthening methods, etc.
 - 6.2 Strengthening of administrative and community capacities for disaster management:
emergency responses, disaster preparedness, earthquake risk mitigation measures, etc.

V. SCHEDULE OF THE STUDY

The Study will be carried out in accordance with the tentative schedule as attached in the ANNEX-2. The schedule is tentative and subject to modification if such necessity should arise during the course of the Study mutually agreed by both sides

VI. REPORTS

JICA will prepare and submit the following reports in English and in French to Algeria.

1. Inception Report:
Fifteen (15) English copies and twenty (20) French copies at the commencement of the Study in Algeria
2. Progress Report:
Fifteen (15) English copies and twenty (20) French copies just after the end of Site investigation and data collection
3. Interim Report:
Fifteen (15) English copies and twenty (20) French copies before estimation of seismic risks
4. Draft Final Report:
Fifteen (15) English copies and twenty (20) French copies just after the end of recommendation on earthquake disaster mitigation policy and administrative countermeasures
Algeria side shall submit its comments within one (1) month after the receipt of the Draft Final Report.
5. Final Report:
Final Report will consist of Executive Summary, Main Report, Supporting Report, and/or Data Book. Fifteen (15) English copies and fifty (50) French copies will be submitted within one (1) month after the receipt of the comments on the Draft Final Report.
6. Microzonation maps:
Fifty (50) sets of Microzonation maps will be submitted at same time of Final Report submission.

VII. UNDERTAKINGS OF THE GOVERNMENT OF ALGERIA

- 1 To facilitate the smooth implementation of the Study, the Government of Algeria shall take the following necessary measures;
 - 1.1 To permit the members of the Japanese study team (hereinafter referred to as "the Study team") to enter, leave and sojourn in Algeria for the duration of their assignments therein and exempt them from foreign registration requirements and

- consular fees,
- 1.2 To exempt the members of the Study team from taxes, duties, and any other charges on equipment, machinery and other materials brought into and out of Algeria for the implementation of the Study,
 - 1.3 To exempt the members of the Study 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 Study team for their services in connection with the implementation of the Study, and
 - 1.4 To provide necessary facilities to the Study team for remittance as well as utilization of the funds introduced into Algeria from Japan in connection with the implementation of the Study.
- 2 The Government of Algeria shall bear claims, if any arises, against a member(s) of the Study 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 member of the Study team.
 - 3 Ministry of Housing and Urban Affairs and National Earthquake Engineering Research Center shall act as counterpart organizations to the Study team and also as coordinating bodies in relation with other governmental and non-governmental organizations for the smooth implementation of the Study.
 - 4 Ministry of Housing and Urban Affairs and National Earthquake Engineering Research Center shall, at their own expense, provide the Study team with the following, in cooperation with other organizations concerned;
 - 4.1 Security related information as well as measures to ensure the safety of the Study team,
 - 4.2 Information on as well as support in obtaining medical service,
 - 4.3 Available data and information related to the Study,
 - 4.4 Counterpart personnel,
 - 4.5 Suitable office space with necessary office equipment,
 - 4.6 Credentials or identification cards, and
 - 4.7 Appropriate numbers of vehicles with drivers.

VIII. CONSULTATION

JICA and Algerian counterpart organizations (Ministry of Housing and Urban Affairs and National Earthquake Engineering Research Center) shall consult with each one another in respect of any matter that may arise from or in connection with the Study.

ANNEX-1: Study Area

Study Area is shown below.

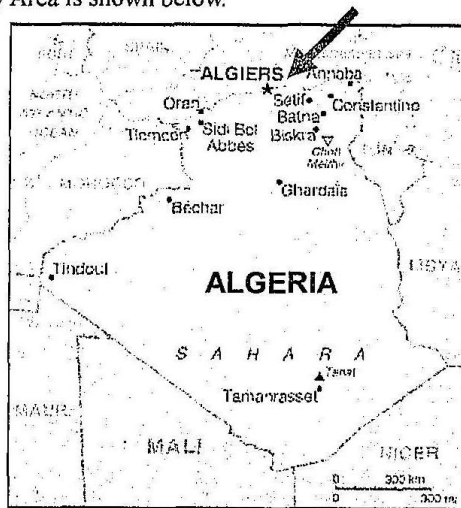


Figure1. Location Map

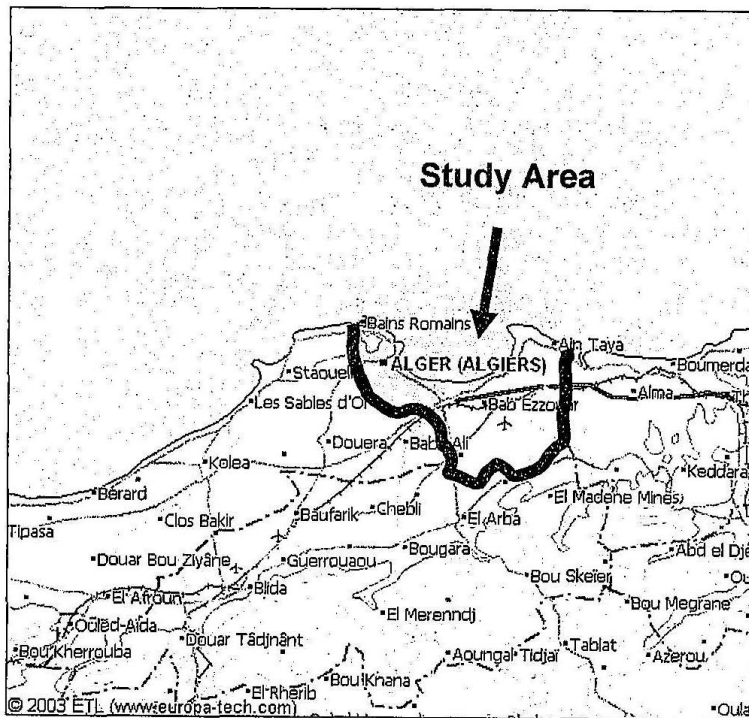


Figure2. Study Area

ANNEX-2: Tentative Schedule

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Work																				
Report	IC/R				P/R				IT/R					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