付属 資料

- 1.団長書簡
- 2 . Term of Reference
- 3 . Scope of Work
- 4 . Minutes of Meeting
- 5 . 主要面談者リスト(予備・事前調査)
- 6.質問票及びその回答
- 7. 収集資料リスト
- 8. ローカルコンサルタントリスト
- 9. プロジェクト 2000 の対象サブプロジェクト



Directorate General of Agricultural Engineering, Ministry of Agriculture

Dear Sir,

Subject: Preparatory Study on the Detailed Design Study of Rural Water Supply Project-2001 in the Republic of Tunisia

Thank you very much for your kind cooperation extended to our Preparatory Study Team (JICA Mission). I am pleased to inform you that our Team has successfully completed our tasks and that the main results are as follows.

- 1. Directorate General of Agricultural Engineering (DGGR) informed JICA Mission that they would submit an application with Terms of Reference (T/R) (see Appendix I for sample) of "The Detailed Design Study of Rural Water Supply Project-2001 in the Republic of Tunisia" (the Study).
- 2. JICA Mission showed draft Scope of Work for the Study (S/W) for a reference (see Appendix II), although it did not mean any commitment on the implementation of the Study. This S/W is not finalized yet and would be subject to change through the close consultation with each respect organization until the final decision for implementation of the Study would be made by the Government of Japan.
- 3. DGGR and JICA Mission held a series of discussions on the Study expected to be conducted by JICA. The main issues discussed are noted in Appendix III.

I will report these results to the organizations concerned in Japan upon my returning.

sincerely yours,

Leader of the Preparatory Study Team,

Japan International Cooperation Agency (JICA)

cc: Mr.RIDHA AZAIZ Counselor, Direction Asia

Ministry of Foreign Affairs
Mr.Khélil KAMMOUN
Asia Department Head

Ministry of International Cooperation and

Foreign Investment

Mr. KAWADA, Masahiro Counselor,

Embassy of Japan in the Republic of Tunisia

Mr.TSUJIOKA, Masao Resident Representative, JICA Tunisia Office

(DRAFT)

SCOPE OF WORK

FOR

THE DETAILED DESIGN STUDY

ON

THE PROJECT FOR RURAL WATER SUPPLY PROJECT

IM

THE REPUBLIC OF TUNISIA

AGREED UPON BETWEEN

MINISTRY OF AGRICULTURE

DIVA

JAPAN INTERNATIONAL COOPERATION AGENCY

TUNIS, , 1999

Mr.

Resident Representative

Tunisia Office

Japan International Cooperation Agency

Ministry of International Cooperation

Ministry of Foreign Affairs

Ministry of Agriculture

and Investment

I. INTRODUCTION

In response to the request of the Government of the Republic of Tunisia (hereinafter referred to as "the Government of Tunisia"), the Government of Japan has decided to conduct a Detailed Design Study on the Project for Rural Water Supply Project in the Republic of Tunisia (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 Tunisia.

The present document sets forth the scope of work for the Study.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

- to prepare detailed design and the tender documents of Project-2001 in Rural Water Supply Project agreed on between the Overseas Economic Cooperation Fund and the Government of Tunisia, which will contribute to development of rural water supply, and
- 2. to pursue technology transfer to the counterpart personnel in the course of the Study.

III. STUDY AREA

The Study shall cover__ sub-projects in rural area of Tunisia.

IV. STUDY ORGANIZATION

Directorate General of Agricultural Engineering. Ministry of Agriculture (hereinafter referred to as "DGGR") shall act as a counterpart agency to the Japanese study team and also as a coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

DGGR will, as the executing agency of the project, take responsibilities that may arise from the products of the Study.

V. SCOPE OF THE STUDY

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

- 1. Supplementary Data Collection and Field Study.
- 2. Review of Feasibility Study conducted by DGGR and the other related information including the result of OECF's appraisal..
- 3. Detailed Design,
- 4. Operation, Management and Maintenance Plan and Sensitization Program considering Participatory Approach and Gender Aspects.
- 5. Construction Plan and Implementation Plan.
- 6. Environmental Impact Assessment, if necessary,
- 7. Cost Estimation, and
- 8. Preparation of the Final Report and the Tender Documents in conformity with "Guidelines for Procurement under OECF Loans", dated on Dec. 1997.

VI. SCHEDULE OF THE STUDY

The tentative schedule of the Study is shown in the attached sheet of Annex.

VII. REPORTS

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

1. Inception Report

Twenty (20) copies at the beginning of the Study in the Republic of Tunisia.

This report will describe the Study schedule, methodology and Study Team members' assignment.

2. Draft Final Report and Draft Tender Documents:

Twenty (20) copies of Draft Final Report and ten(10)copies of Draft Tender Documents at the end of the Study in Tunisia. The Tunisia side shall submit their comments within one(1) month after the receipt of the Draft Final Report and Draft Tender Documents.

3. Final Report and revised Draft Tender Documents:

Twenty (20) copies of Final Report and ten(10)copies of revised Draft Tender Documents within one(1) month after the receipt of the comments on the Draft Final Report and Draft Tender Documents.

4. Monthly Reports and Design Reports:

Ten (10) copies each. The progress of the Study will be reported by month. Besides, Design Reports will be submitted after the completion of the design of each project component.

VIII. UNDERTAKINGS OF THE GOVERNMENT OF TUNISIA

- 1. To facilitate the smooth conduct of the Study, the Government of Tunisia shall take the following necessary measures:
 - (1) to secure the safety of the Japanese study team.
 - (2) to permit the members of the Japanese study team to enter, leave and sojourn in Tunisia for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees,
 - (3) to exempt the members of the Japanese study team from taxes, duties, fees and any other charges on equipment, machinery and other materials brought into and out of Tunisia for the conduct of the Study,
 - (4) to exempt the members of the Japanese 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 Japanese study team for their services in connection with the implementation of the Study,
 - (5) to provide necessary facilities to the Japanese study team for the remittances as well as utilization of the funds introduced into Tunisia from Japan in connection with the implementation of the Study,
 - (6) to secure permission for the Japanese study team to enter into private properties or restricted areas for the implementation of the Study,

- (7) to secure permission for the Japanese study team to take all data and documents including photographs and maps related to the Study out of Tunisia to Japan, and
- (8) to provide medical services as needed. It's expenses will be chargeable to members of the Japanese study team.
- 2. The Government of Tunisia shall bear claims, if any arise against the member of the Japanese 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 Japanese study team.
- 3. DGGR shall, at its own expense, provide the Japanese study team with the following, in cooperation with other organizations concerned:
 - (1) Available data and information related to the Study.
 - (2) Counterpart personnel and supporting staff.
 - (3) Necessary number of vehicles with drivers for the Japanese study team,
 - (4) Suitable office space with necessary equipment in Tunis, and
 - (5) Credentials or identification cards to the member of the Team.

VIII. UNDERTAKINGS OF JICA

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

- (1) to dispatch, at its own expense and on a grant basis, the study team to Tunisia, and
- (2) to pursue technology transfer to the counterpart personnel in the course of the Study.

IX. OTHERS

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

	1	2	3	4	5	6	7	8	9	10	11	12
Work in Tunisia												
Work in Japan												
Report	▲ IC/F	X								▲ DF/	R	▲ F/R

IC/R :Inception Report

DF/R :Draft Final Report

F/R :Final Report

10

DRAFT

APPLICATION FOR THE TECHNICAL COOPERATION (DEVELOPMENT STUDY) BY THE GOVERNMENT OF JAPAN

1. Project Digest
(1) Project Title: Detailed Design Study of the Rural Water Supply Project -2001 in the Republic of Tunisia
(2) Location:
(3) Implementing agency:
Number of the staff of the Agency: Budget allocated to the Agency: Organization chart:
(4) Justification of the project:
(5) Desirable time of commencement of the project:
(6) prospective funding source:
(7) other relevant projects:
2. Terms of reference of the proposed Study

(1) Necessity of the Study

(2) Necessity of the Japanese Technical Cooperation

and the second of the second o

(3) Objectives of the Study

- to prepare detailed design and the tender documents of Project-2001 in Rural Water Supply Project agreed on between the Overseas Economic Cooperation Fund and the Government of Tunisia, which will contribute to development of rural water supply, and
- 2) to pursue technology transfer to the counterpart personnel in the course of the Study.

(4) Areas to be covered by the Study

The Study shall cover __ sub-projects in rural area of Tunisia.

(5) Study Organization

Directorate General of Agricultural Engineering, Ministry of Agriculture (hereinafter referred to as "DGGR") shall act as a counterpart agency to the Japanese study team and also as a coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

(6) Scope of the Study

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

- I. Supplementary Data Collection and Field Study,
- 2. Review of Feasibility Study conducted by DGGR and the other related information including the result of OECF's appraisal.
- 3. Detailed Design,
- 4. Operation, Management and Maintenance Plan and Sensitization Program considering Participatory Approach and Gender Aspects.
- 5. Construction Plan and Implementation Plan.

- 6. Environmental Impact Assessment, if necessary,
- 7. Cost Estimation, and
- 8. Preparation of the Final Report and the Tender Documents in conformity with "Guidelines for Procurement under OECF Loans", dated on Dec. 1997.

(7) Study Schedule

The Study should be started at the earliest possible date and about __ months period will be required for the Study.

(8) Expected Major Outputs of the Study

Draft Tender Documents for each sub-projects of the program (the components of the projects are changeable during the Study). The Draft Tender Documents should be composed of the designs and drawings, specifications, Bill of Quantity, cost estimates, and other necessary documents for tender.

- (9) Request of the Study to other Donor Agencies: None
- 3. Facilities and information for the Study Team
- (1) Assignment of counterpart personnel of the implementing agency for the Study: Required personnel will be assigned to the Study Team.
- (2) Available data, information, documents, maps etc., related to the Study (Please attach the list)
- (3) Information on the security conditions in the Study area

- 4. Global Issues
- (1) Environmental components:

Improvement of water supply service level will contribute to improve the living environment and sanitary condition in the Study area.

- (2) Anticipated environmental impact and constraint:
- (3) Anticipated impacts on women cased by the project
- 5. Undertaking of the Government of Tunisia
- (1) To facilitate the smooth conduct of the Study, the Government of Tunisia shall take the following necessary measures:
- 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 Tunisia 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 any other charges on equipment, vehicles, machinery and other materials brought into and out of Tunisia 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 the remittances as well as the utilization of the funds introduced into Tunisia from Japan in connection with the implementation of the Study.
- 6) to secure permission for the Team to enter into private properties or restricted areas for the implementation of the Study.
- 7) to secure permission for excavation, road blocking, detour, and so on if necessary for the Study,

- 8) to secure permission for the Team to take all data and documents including photographs and maps related to the Study out of Tunisia to Japan, and
- 9) to provide medical services as needed. It's expenses shall be chargeable to the members of the Team.
- (2)The Government of Tunisia 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 member of the Team.
- (3) DGGR shall, at its own expense, provide the Team with the following, in cooperation with other organizations concerned:
- 1) Available data and information related to the Study.
- 2) Counterpart personnel and supporting staff,
- 3) Necessary number of vehicles with drivers for the Team
- 4) Suitable office space with necessary equipment in Colombo, and
- 5) Credentials or identification cards to the member of the Team.

a .				
\ .	OTT	_	<i>^</i> 1	•
.) !	gn	C .		

Title:

on behalf of the Government of Tunisia

Date

Memorandum of Preparatory Study on the Detailed Design Study of Rural Water Supply Project-2001 in the Republic of Tunisia

The Preparatory Study Team of Japan International Cooperation Agency (hereinafter referred to as "JICA Mission") was dispatched to Tunisia from July 5 to July10 to discuss on The Detailed Design Study of Rural Water Supply Project-2001 (hereinafter referred to as "the Study") in Tunisia, while a mission of Overseas Economic Cooperation Fund (hereinafter referred to as "OECF") visited Tunisia for the appraisal of proposed Japanese Yen Loan projects.

JICA Mission carried out a field reconnaissance in the study area and had a series of discussions with Directorate General of Agricultural Engineering, Ministry of Agriculture (hereinafter referred to as "DGGR") on the Study under the condition that it did not mean any commitment on the implementation of the study. The list of those who attended these discussions is attached.

DGGR provided JICA Mission explanation and information on existing procedure on Rural Water Supply Project for the purpose of further understanding and better execution of the Study.

List of documents and drawings used are attached.

The main issues discussed are as follows:

1. Position of JICA Mission

JICA Mission explained the background (relationship with the OECF project) and tasks of the mission. DGGR understood it.

2. Detailed Design as Development Study Scheme

JICA Mission explained that with regard to the products of the Study when conducted under the Japanese Technical Assistance Scheme (Development Study Scheme), DGGR is to take responsibility that may arise from the said products. DGGR understood and agreed.

3. Close Consultation

DGGR and JICA Mission both agreed that close consultation between two parties would be essential to coordinate OECF's Scheme and JICA's Development Study

Scheme for smooth execution of Rural Water Supply Project.

4. Local Consultant

JICA Mission and DGGR both reached the common recognition that Japanese Consultant (hereinafter referred to as "Study Team") which will execute the Study shall select local consultant in respect with the relevant lows and regulations in force in Tunisia and with cooperation with Regional Directorate General for Agricultural Development, Ministry of Agriculture, and should consider the role of CRDA on Contracts between the Study Team and local consultant.

5. Official Request of the Study

JICA Mission explained that the official request of the Study is necessary for the Japanese Government to decide the implementation of the Study. DGGR replied that they would prepare and submit it as soon as possible.

And the Mission also explained the outline of the steps from the application to the commencement of the Study, as below:

- (1) Submission of official request,
- (2) Decision by the Japanese Government,
- (3) Notice to the Tunisian Government,
- (4) Dispatch of Second Preparatory Study Team by JICA,
- (5) Signature on Scope of Work,
- (6) Selection of Japanese Consultant by JICA, and
- (7) Commencement of the Study.

6. Title of the Study

JICA Mission proposed the title of the Study "The Detailed Design Study of Rural Water Supply Project-2001 in the Republic of Tunisia". DGGR recognized the explanation of JICA Mission.

Both sides agreed that the matter would be finalized by Signature on S/W stated as above.

7. Terms of References

- (1) Both side recognized that the number of sub-project is 46 (forty-six). And it will be varied by the progress of the Study.
- (2) DGGR requested supplemental study including topographic survey on Feasibility Study. JICA Mission agreed the request.

- (3) DGGR explained Environmental Impact Assessment is not necessary for this Project but Social Impact Study and Economic Impact Study are necessary and to be executed in the Study. JICA Mission agreed.
- (4) DGGR requested to study Operation, Management and Maintenance Plan with Sensitization Program by each sub-project. JICA Mission replied that to appropriate extent those would be studied.
- (5) DGGR strongly requested that reports should be written in French.

 JICA Mission replied to consider it positively.

8. Draft Scope of Work

- (1) JICA Mission pointed that Undertakings in S/W are same as past ones.
- (2) DGGR stated not possible to offer vehicles to the Study Team due to shortage of them.
- (3) DGGR also stated to offer office with furniture but not able to offer telephone, fax machine and copy machine. The Mission requested to make their effort to prepare those appliances because they are necessary at whole project period.

9. Other

Items with which both sides could not reach to the mutual agreement are to be adjusted by Signature on S/W.

List of Attendance

(Tunisia Side)

Ministry of Agriculture

Mr. Sardouk Youssef Ingenieur en Chef. Genie Rural. AEP des Zones Rurales,

Directorate General of Agricultural Engineering

Mr. Jameleddine Brahmi Chef de Service des Etudes.

Directorate General of Agricultural Engineering

Mr. Fakhfakh Mohamed Chef de Service des Travaux.

Directorate General of Agricultural Engineering

(Japanese Side)

JICA Preparatory Study Team

Mr. Katsumi Kobayashi Leader. Second Development Study Div.,

Social Development Dept.

Mr. Yoshio Fukuda Study Planning, Second Development Study Div.,

Social Development Dept.

Mr. Masayuki Shibahara — Interpreter

JICA Tunisia Office

Mr. Keiichi Takemoto Deputy Resident Representative, JICA Tunisia Office

The Overseas Economic Cooperation Fund (OECF)

Mr. Kakutoshi Ohori Country Officer, Div., Operations Dept.

Mr. Hiroyuki Fukuda Deputy Director, 1 st Technical Div., Technical Dept.

List of information provided by DGGR

- 1. Dossier d'appel d'offres d'etudes
- 2. Manuel de sensibilisation
- 3. Cahier des plans types
- 4. Cahier des charges pour les travaux
- 5. Methodologie de depouillement
- 6. Modele d'etudes d'AEP

REPUBLIC OF TUNISIA

MINISTRY OF AGRICULTURE

APPLICATION FOR THE TECHNICAL COOPERATION BY THE GOVERMENT OF JAPAN

STUDY OF THE RURAL WATER SUPPLY PROJECT 2001 IN TUNISIA

(DEVELOPPEMENT STUDY)



الإدارة العامة للمندسة الريفية

Directorate General of Raral Engineering

JULY 1999

APPLICATION FOR THE TECHNICAL COOPERATION BY THE GOVERNMENT OF JAPAN

STUDY OF THE RURAL WATER SUPPLY PROJECT 2001 IN TUNISIA

(DEVELOPMENT STUDY)

1. Project Digest:

- (1) Project Title: Detailed Design Study of the Rural Water Supply Project 2001 in the Republic of Tunisia
- (2) Location: Sub-projects are selected in 17 Governorates of the country (see Appendix I)
- (3) Implementing agency:
 - Directorate General of Rural Engineering (DGGR), Ministry of Agriculture.
 - Number of the staff of the Agency: Technical staff:16 engeneer and 12 technical assistants.
 - Budget allocated to the Agency : 2.5 millions DT
 - Organisation chart : (Appendix II)
- (4) Justification of the project:

The project aims to supply with potable water 97 000 inhabitants and to improve the global of water supply rate in rural area to 80% at 2001(target of the nine national plan).

(5) Desirable time of commencement of the project :

The first quarter of 2000 - at last April 2000

(6) Prospective funding source:

Grant of the Government of Japan (JICA)

(7) Other relevant projects: None

2. Terms of reference of the proposed Study:

(1) Necessity of the Study

To prepare detailed design and the tender documents of sub-project - 2001 in the rural water supply project, wich are necessary to the excution of water systems.

(2) Necessity of the Japanese Technical Cooperation
Necessity of technical assistance to improve the methodology adopted for working
on water supply studies and pursue technology transfer to the counterpart
personnel in the course of the study.

(3) Objectives of the study:

The objectives of the study are:

- 1) to prepare detailed design and the tender documents of sub-project -2001 in Rural Water Supply Project agreed on between the Overseas Economic Cooperation Fund and the Government of Tunisia, which will contribute to development of rural water supply, and
- 2) to pursue technology transfer to the counterpart personnel in the course of the Study.

(4) Areas to be covered by the Study

The Study shall cover about 46 sub-projects in rural area of Tunisia. The list of these sub-projects is atteched in Appendix III.

(5) Study Organisation:

Directorate General of Rural Engineering (DGGR), Ministry of Agriculture (hereinafter referred to as "DG/GR") shall act as a counterpart agency to the Japanese study team and also as a coordinating body in relation with other governmental and non-governmental organisations concerned for the smooth implementation of the Study.

(6) Scope of the Study

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

- 1. Supplementary Data Collection and Field Study,
- 2. Feasibility Studies including topographic survey,
- 3. Detailed Design,
- 4. Operation, Management and Maintenance Plan and Sensitization Program Considering Participatory Approach and Gender Aspects for each sub-project,
- 5. Construction Plan and Implementation Plan,
- 6. Social and Economic Impact Assessment,
- 7. Cost Estimation and Financial Analysis Including water fees and expected Budget of the AIC,
- 8. Preparation of the Final Report and the Tender Documents in conformity with "Guidelines for Procurement under OECF Loans", dated on Dec. 1997.

These aspects will be analysed in conformity with the existing methodology and documents used for executing water supply study. List of documents an drawings used is atteched in Appendix IV.

(7) Study Schedule

The Study should be started at the earliest possible date. About 12 months period will be required for the Study.

(8) Expected Major Outputs of the Study

Draft tender documents for each sub-projects of the program (the components of the projects are changeable during the Study). the Draft Tender Documents should be composed of the designs and drawing, specifications, bill of quantity, cost estimates, and other necessary documents for tender.

(9) Request of the Study to other Donor Agencies : None

3. Facilities and information for the Study Team:

- (1) Assignment of counterpart personnel of the implementing agency for the Study: Required personnel will be assigned to the Study Team.
- (2) Available data, information, documents, maps etc., related to the Study.
- (3) Information on the security conditions in the Study area.

4. Global Issues:

(1) Environmental components:

Improvement of water supply service level will contribute to improve the living environment and sanitary condition in the Study area.

(2) Anticipated environment impact and constraint:

Improvement of the public Hygien.

(3)Anticipated impacts on women cased by the project:

Saving time for fetching water, which will be invested in children education and in some type of productive activities.

5. Undertaking of the Government of Tunisia:

- (1) to facilitate the smooth conduct of the Study, the Government of Tunisia shall take the following necessary measures:
 - 1) to secure the safety of the Japanese Study team (hereinafter to as "the Team"),
 - 2) to permit the members of the Team to enter, leave and sojourn in Tunisia for duration of their assignment therein, and exempt them form foreign registration requirements and consular fees.
 - 3) to exempt the members of the team from taxes, duties, fees and any other charges on equipment, vehicles, machinery and other materials brought into and out of Tunisia for the conduct of the Study.
 - 4) to exempt the members of Team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the member of the Team for their services in connection with the implementation of the Study,
 - 5) to provide necessary facilities to the Team for the remittances as well as the utilisation of the funds introduced into Tunisia from Japan in connection with the implementation of the Study,
 - 6) to secure permission for the Team to enter into private properties or restricted areas for the implementation of the Study,
 - 7) to secure permission for excavation, road blocking, detour, and so on if necessary for the Study,

- 8) to secure permission for the Team to take all data and documents including photographs and maps related to the Study out of Tunisia to Japan and
- 9) to provide medical services as needed. It's expenses shall be chargeable to the members of the Team.
- (2) The Government of Tunisia 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 will ful misconduct on the part of the member of the Team.
- (3) DGGR shall, at its own expense, provide the Team with the following, in cooperation with other organisations concerned:

Title: Director General
of Agricultural Engineering

Direction

Générale

- 1) Available data and information related to the Study,
- 2) Counterpart personnel,
- 3) Suitable office space, and
- 4) Credentials or identification card to the member of the Team.

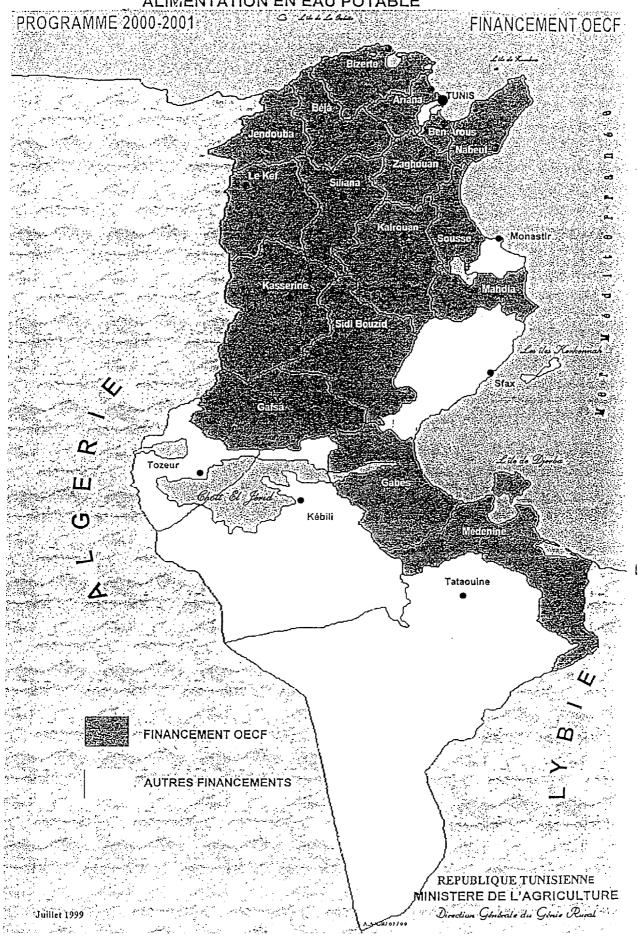
Signed:

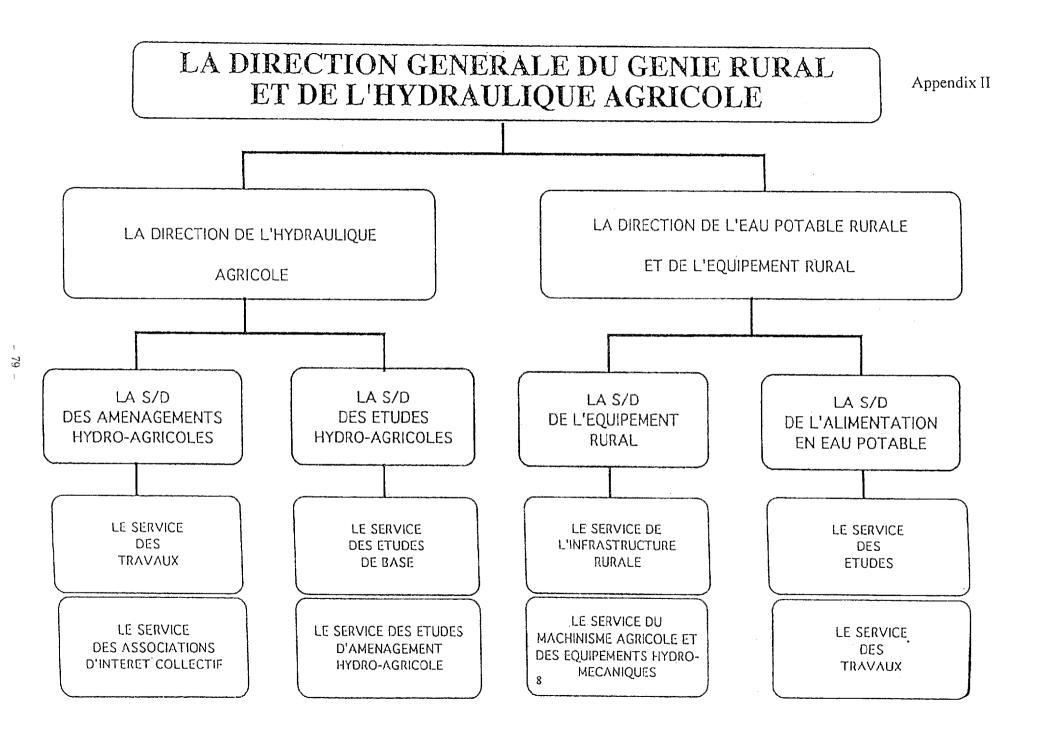
on behalf of the Government of Tunisia

date 27 JUIL 1999

- 77 --

ALIMENTATION EN EAU POTABLE





LIST OF SUB-PROJECTS - 2001

Priorite	An	Gouvernorat	Sous-Project	Population . 1998	Besoins en Eau 1998 (m3 day)	Papulation 2015	Besoins en Eau 2015 (m3 day)	Source d'Eau	Remarques
39	2001	MAHDIA	COMPLEXE EL AITHA	533	31.3	1088	45.3	PIQUAGE SONEDE	
10	2001	GABES	CHAABET EJJAYER	400	21,0	450	26,8	PIQUAGE SONEDE	<u> </u>
11	2001	MAHDIA	COMPLENE BOUSSLIM	RG03	305.1	10543	441.0	PIQUAGE SONEDE	
12	2001	BIZERTE	SIDI MANSOUR	973	33.8	1178	49,0	FORAGE	
13	2001	SIDI BOUZID	BLAIIDIA	1110	39.6	1430	54.5	FORAGE	T
1	2001	SIDI BOLIZID	BOUCHILLA	1500	47,9	1932	55.9	FORAGE	
13	2001	GABES	BATEN TRAIMA	610	د. ۱د	687	10,1	ENTENSION GR	
16	2001	GABES	EZZAJIRA	250	11.5	281	15.2	ENTENSION GR	
	2001	SOUSSE	OUED EL KHARROUB	643	23.8	823	34,4	PIQUAGE SONEDE	
13	2001	KAIROUAN	ZGAINIA	342	11.5	393	16,6	ENTENSION GR	
19		LE KEF	M'HAFDHIA - GHRAISSIA	700	31.6	700	40.6	PIQUAGE SONEDE	
100		SIDI BOUZID		500	15,5	644	17.2	FORAGE	
31		SIDI BOUZID		800	26.7	1030	33,4	FORAGE	
5:		SOUSSE	OUARRAD	2665	98,7	3433	142.9	PIQUAGE SONEDE	
35		BIZERTE	DOUMIS	1152	39.9	1337		FORAGE	1
34		JENDOUBA	SIDI SALAH	455	14.0	437	20.3	PIQUAGE SONEDE	
1		KAIROUAN	CHELALGA	1452	48.6	1691		ENTENSION GR	
36	_	KASSERINE	SIDI HARRATH - GOUASSEM	936	37,1	1206		FORAGE	
17		LE KEF	CHAAMBA - O.EL ASSEL - HMAJDIA	675	32,2	675		FORAGE	
15		NABEUL	DAMOUSS	1365	51,8	1700		PIQUAGE SONEDE	
- <u>/</u>		JENDOUBA	OULED DHIFALLAH	1922	63,1	2037		BARRAGE	
ŀ .	_	KAIROUAN	GUDIFETT	600	20,1	629		EXTENSION GR	
61		BEJA	EL FTETNA - EL HAMRA	1344	44.)	1367		SOURCE	
67		GAFSA	HENCHIR EDHOUAHER	200	6,3	218		ENTENSION GR	
6]		GAFSA	KHANGUET ZAMMOUR	623	19,5	678		ENTENSION GR	
61		JENDOUBA	BELDIA	2133	63.7	7233		BARRAGE	
65		JENDOUBA	JOUAQUDA I / BATTAHA	4318	148.2	3136		BARRAGE	
66			HMIDET	780	26.1	908		FORAGE	
67			DAAYSIA	690	27,2	839		FORAGE	
68			OUED LAGSAB	440	16.3	567		FORAGE	+
69			CHOUAMERH - R. ENNAGUEB	1878	63,6	2460		PIQUAGE SONEDE	—
70			CHEGAIGUIA a SOUAYSSIA	350	11,2	387		ENTENSION GR	
71		ZAGHOUAN	JIMLA	300	9,5	332		FORAGE	
72			SIDI FREDI	216	32.0	1073		PIQUAGE SONEDE	
73		MEDENINE	ECHGIUIGUIA	480	16,7	629		PIQUAGE SONEDE	1
74		MEDENINE	TARF ELLIL	445	15.6	383		PIQUAGE SONEDE	1
75		KASSERINE	MARTHOUM - MAJA	570	21.1	734		FORAGE	
76	2001		CHOUABIA	200	24,6	915		SOURCE	1
77			BOUGUEDDIMA	264	9,9	346		PIQUAGE SONEDE	
72				300	11,9	413		PIQUAGE SONEDE	
79	2001		FAIDH EL AMRINE-SIDI GHRIB LAHOUACHE	400	13.8	407		FORAGE	
$\overline{}$			TILEUIA	860	21,0	936		EXTENSION GR	
					62.1	2161		BARRAGE	
			MAALIM TYAYRA	2019	5,7	207		PIQUAGE SONEDE	
			OULED BEN MILED and OULED SAAD	915	45,7	1589		PIQUAGE SONEDE	
-					3.3	1389		PIQUAGE SONEDE	
-	2001	ARIANA	HMAJEM ESSOUFLA Sour-Total	50163	1768	59948	2478		+
+					. 3404	114233	4727		<u> </u>
_	- 1		Total	96706	. 34041	114411	4747		

Source Elude SAPRC

List of information provided by DGGR

- 1. Dossier d'appel d'offres d'etudes
- 2. Manuel de sensibilisation
- 3. Cahier des plans types
- 4. Cahier des charges pour les travaux
- 5. Methodologie de depouillement
- 6. Modele d'etudes d'AEP