

# 資 料

# **INCEPTION REPORT**

***THE PRELIMINARY STUDY***

***ON***

***THE REQUESTED WATER SUPPLY PROJECTS***

***IN***

***FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA***

**NOVEMBER 2002**

*Prepared by*

***PRELIMINARY STUDY TEAM***

***JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)***



***INCEPTION REPORT ON THE PRELIMINARY STUDY***  
***For***  
***THE REQUESTED WATER SUPPLY PROJECTS***

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## 1. INTRODUCTION

In the period of year 2000 to 2002, the Government of the Federal Democratic Republic of Ethiopia made requests for grant aid on the six projects for groundwater development of water supply in rural area and local cities (hereinafter referred to as “the Projects”) to the Government of Japan.:

- (i) A project for Amhara Regional State: new construction of 10 demonstration medium/deep wells in 10 zones
- (ii) & (iii) Two projects for SNNPRS: new construction of 190 wells equipped with submersible pump or hand pump
- (iv) A integrated project for two Regional States of Afar and Somali; new construction of 50 wells with hand pump or solar pump
- (v) A integrated project for two Regional States of Oromiya and SNNPRS: new construction of water supply systems at three zonal cities
- (vi) A project for Oromiya Regional States; new construction of 200 wells with submersible pump or hand pump

The Government of Japan entrusted the study to examine the viability of the Projects to the Japan International Cooperation Agency (hereinafter referred to as “JICA”), the official agency implementing Japanese Government’s technical assistance and expediting proper execution of the Japan’s Grant Aid. Hence, JICA decided to conduct a Preliminary Study and sent the study team, headed by Mr. Tetsuo Yabe, Senior Assistant to the Managing Director, Office of Technical Coordination and Examination, Grant Aid Management Department, JICA.

The Study Team carries out the following studies:

- (1) Comprehension of the contents of the requested Projects
- (2) Confirmation of the priority of the Projects through studies of the Projects and other development plans related to the Projects in the Nation
- (3) Investigation of the present situation and problems in the related sectors
- (4) Confirmation of maintenance and administration system in the national, implementing and operation organs
- (5) Verification of fiscal capabilities of the organs concerned
- (6) Confirmation of trend of assistance from other donors
- (7) Collection and analysis of data, information and materials related to the Project

This inception report has been prepared to explain Japan’s Grand Aid scheme, the characteristics of the Preliminary Study, objectives and methods of the Study, and to confirm mutual understandings regarding basic items of the Study.

## **2. JAPAN'S GRANT AID**

### **2.1 JAPAN'S GRANT AID SCHEME**

The Grant Aid scheme provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services, transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

#### **2.1.1 Grant Aid Procedures**

Japan's Grant Aid Scheme is executed through the following procedures.

- Application
  - Request made by a recipient country
- Study
  - Basic Design Study conducted by JICA
- Appraisal and Approval
  - Appraisal by the Government of Japan and Approval by Cabinet
- Determination of Implementation
  - The Notes exchanged between the Governments of Japan and the recipient country

Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for the Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study on the request.

Secondly, JICA conducts the study (hereinafter referred to as "Basic Design Study"), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Scheme, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official the Exchange of Notes (hereinafter referred to as "E/N") signed by the Governments of Japan and the recipient country.

Finally, for the smooth implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

### 2.1.2 Japan's Grant Aid Scheme

(1) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

(2) "The period of the Grant Aid" means the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contract with (a) consulting firm(s) and (a) contractor(s) and final payment to them must be completed.

However, in case of delays in delivery, installation or construction due to unforeseen factors such as natural disaster, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

(3) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchased of the products or services of a third country.

However, the prim contractors, namely, consulting, contracting and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

(4) Necessity of "Verification"

The Government of recipient country or its designed authority will conclude contracts dominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

(5) Undertaking required to the Government of Recipient Country

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as the following:

- ① To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction,

- ② To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,
- ③ To secure buildings prior to the procurement in case the installation of the equipment,
- ④ To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid,
- ⑤ To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts,
- ⑥ To accord Japanese nationals, whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(6) "Proper Use"

The recipient country is required to operate and maintain the facilities constructed and equipment purchased under the Grant Aid properly and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

(7) "Re-export"

The products purchased under the Grant Aid should not be re-export from the recipient country.

(8) Banking Arrangement (B/A)

- ① The Government of the recipient country or its designed authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
- ② The payments will be made when payment request are presented by the Bank to the Government of Japan under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.

(8) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions to the Bank.

## 2.2 GRANT AID PROCEDURES

Following Tables 2.1 and 2.2 show "MAJOR UNDERTAKINGS TO BE TAKEN BY EACH GOVERNMENT" in cases of procurement project and construction project, and Figure 2.1 indicates "FLOW CHART OF JAPAN'S GRANT AID PROCEDURES", respectively.

**TABLE 2.1 MAJOR UNDERTAKINGS TO BE TAKEN BY EACH GOVERNMENT**  
(Case of Procurement Project of Equipment and/or Materials)

No.	Items	To be covered by Grant Aid	To be covered by Recipient Site
	To bear the following commissions to the Japanese Bank for banking services based upon the B/A		
1	1) Advising commission of A/P		●
	2) Payment commission		●
	To ensure unloading and customs clearance at port of disembarkation in recipient country		
2	1) Marine (Air) transportation of the products from Japan to the recipient country	●	
	2) Tax exemption and customs clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	(●)	(●)
3	To accord Japanese nationals, whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		●
4	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts		●
5	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid		●
6	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for the transportation and installation of the equipment		●



TABLE 2.2 MAJOR UNDERTAKINGS TO BE TAKEN BY EACH GOVERNMENT

(Case of Facility Construction Project, Procurement can be included into )

No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
1	To secure land		●
2	To clear, level and reclaim the site when needed		●
3	To construct gates and fences in and around the site		●
4	To construct the parking lot	●	
	To construct roads		
5	1) Within the site	●	
	2) Outside the site		●
6	To construct the building	●	
	To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities		
	Electricity		
	1) a. The distributing line to the site		●
	b. The drop wiring and internal wiring within the site	●	
	c. The main circuit breaker and transformer	●	
	Water Supply		
	2) a. The city water distribution main to the site		●
	b. The supply system within the site (receiving and elevated tanks)	●	
	Drainage		
7	3) a. The city drainage main (for storm sewer and others to the site)		●
	b. The drainage system (for toilet sewer, ordinary waste, storm drainage and others) within the site	●	
	Gas Supply		
	4) a. The city gas main to the site		●
	b. The gas supply system within the site	●	
	Telephone System		
	5) a. The telephone trunk line to the main distribution frame/panel (MDF) for the building		●
	b. The MDF and the extension after the frame/panel	●	
	Furniture and Equipment		
	6) a. General furniture		●
	b. Project equipment	●	
8	To bear the following commissions to the Japanese bank for banking service based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
	To ensure unloading and customs clearance at port of disembarkation in recipient country		
9	1) Marine (Air) transportation of the products from Japan to the recipient	●	
	2) Tax exemption and custom clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	(●)	(●)
10	To accord Japanese nationals, whose service may be required in connection with the supply of the products and the services under the verified contract, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		●
11	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts		●
12	To maintain and use properly and effectively the facilities contracted and equipment provided under the Grant		●
13	To bear all the expenses, other than those to be borne by the Grant, necessary for construction of the facilities as well as for the transportation and installation of the equipment		●

(B/A: Banking Arrangement, A/P: Authorization to Pay)

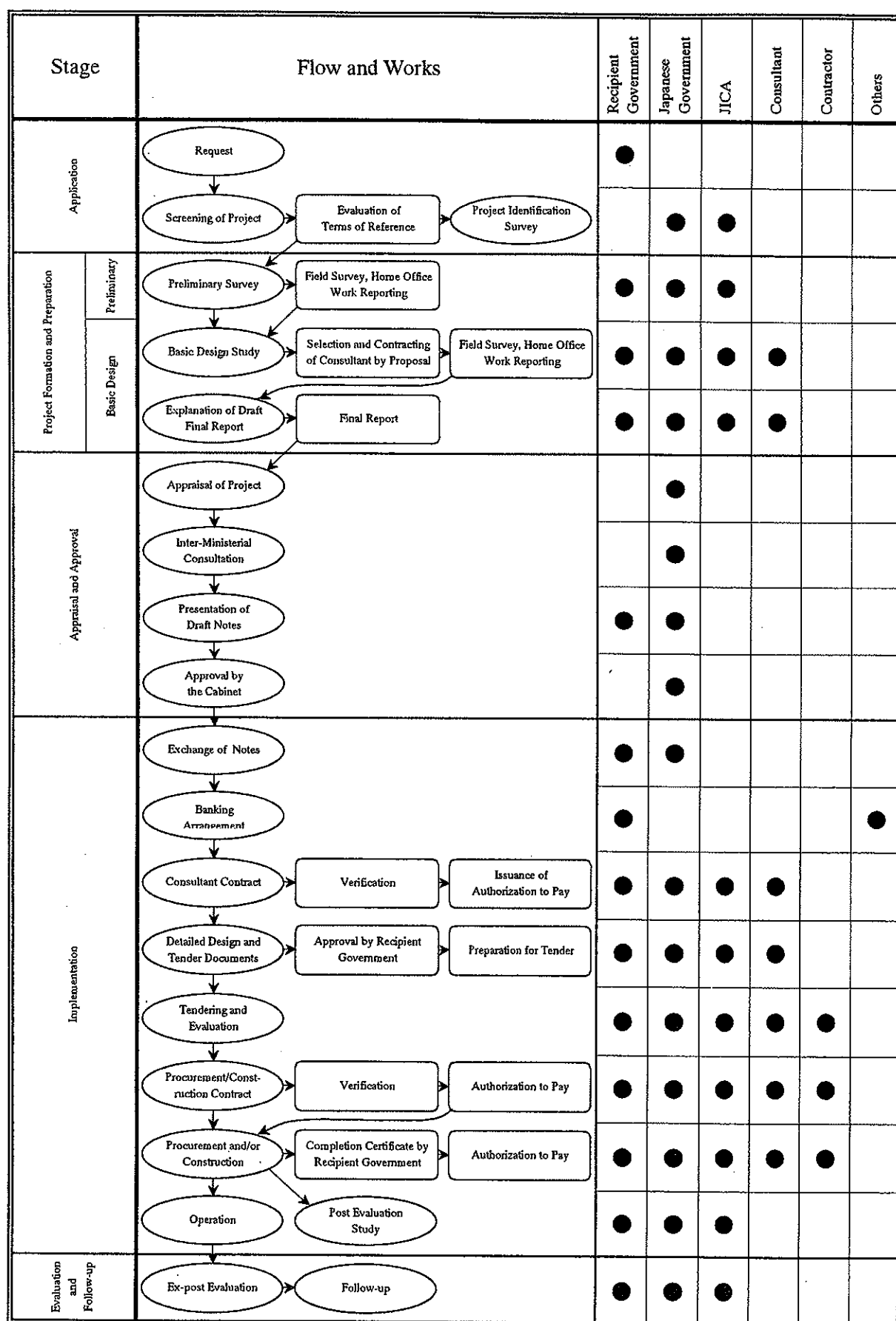


FIGURE 2.1 FLOW CHART OF JAPAN'S GRANT AID PROCEDURES

### 3. IMPLEMENTATION OF THS STUDY

#### 3.1 CONTENTS OF THE STUDY

The aims of the Preliminary Study are to evaluate practicability of the requested Projects and to investigate the details of the Projects whether they meet the conditions of the Japan's Grant Aid or not. The Study also aims to explain the Japan's Grant Aid Scheme.

To achieve the objective of the study, the team will collect all the information relating to the requested Projects from the national government, local government, private sectors, NGO and carry out the field survey to investigate actual situation at the project sites.

The study includes the following contents relative to the requested Projects:

- (1) Background of the requested Projects, the confirmation of the Projects contents,
- (2) Development plan and water sector strategy and policy in national and regional state level,
- (3) Survey on implementation of the Projects
  - 1) Organization of Implementation agency, personnel, technical level, achievement of the construction of water supply systems, construction capability, budget (recurrent and capital), operation and maintenance conditions of owned equipment and materials
  - 2) Linkage between implementation agency and Kaliti Groundwater Investigation and Water Supply Training Center for the implementation of the requested Projects
- (4) Operation and maintenance of water supply systems
  - 1) Present conditions of O & M of existing water supply systems  
(Role share between administrative office and users, Monitoring systems, Procurement conditions of spare parts, Repairing system, Collection system of water charge, Activity of water users association and etc.)
- (5) Survey on Project Area
  - 1) Confirmation of project sites (area)
  - 2) Data collection on served population, Hydrogeological conditions, Water quality data
  - 3) Survey on existing water supply systems  
(Number of facilities, served population and area, operational conditions, possibility of rehabilitation)
  - 4) Social conditions  
(Infrastructures, Population, Diseases ratio, Sewerage systems, etc.)

## (6) Data Collection on Aid Situation

## 1) Donor and NGO relating to water sector

(Construction methods of facilities, Cost, Activities, Cooperative achievement, Future plan)

It is important for both sides to understand that at the stage of the Survey no commitment is made from Japanese side concerning the realization of the Project.

The preliminary study report will be used to decide by the Japanese Government whether or not one or some of the Projects are executed in the scheme of Grant Aid. The basic concept, size, contents and the related items of Grant Aid (in case it is executed) are also to be decided from the results of the Study.

## 3.2 MEMBER OF THE STUDY TEAM

TABLE 3.1 MEMBER OF THE STUDY TEAM

Name	Position	Organization
Mr. Tetsuo Yabe	Team Leader	Senior Assistant to the Managing Director, Office of Technical Coordination and Examination, Grant Aid Management Department, JICA
Ms. Junko Uno	Coordinator	First Project Management Division, Grant Aid Management Department, JICA
Dr. Kenji Takayanagi	Groundwater Development	Engineering Department, NJS Consultants
Mr. Nobukatsu Sakiyama	Groundwater Development	

### 3.3 PROPOSED ITINERARY OF THE STUDY TEAM

TABLE 3.2 PROPOSED ITINERARY OF THE STUDY TEAM (1/2)

Date			Team Leader	Coordinator, Groundwater Development (2)	Stay
1	16-Nov-02	Sat		Narita→ London	
2	17-Nov-02	Sun		→ Addis Ababa (8:20 ET761)	Addis Ababa
3	18-Nov-02	Mon		Meeting with JICA office C/C at EOJ, MoFED, MoWR, MoFA	Addis Ababa
4	19-Nov-02	Tue		AM: Discussion with concerned organizations, Experts and Staff from Kaliti Training Center PM: Addis Ababa -Awasa	Awasa
5	20-Nov-02	Wed	Narita→ Frankfurt	Discussion with WMERDB and WWCE of SNNPRS	Awasa
6	21-Nov-02	Thu	Frankfurt→ Addis Ababa (23:40 ET745)	Discussion with WMERDB and WWCE of SNNPRS Site Survey	Awasa
7	22-Nov-02	Fri		AM: Awasa→ Addis Ababa PM: Addis Ababa → Birhar Dar (ET112) Meeting with WMERDB of Amhara	Birhar Dar
8	23-Nov-02	Sat	Site Survey (including 11 Town Project)		Birhar Dar
9	24-Nov-02	Sun	Site Survey		Birhar Dar
10	25-Nov-02	Mon	Discuss WMERDB and WWCE of Amhara		Birhar Dar
11	26-Nov-02	Tue		AM: Birhar Dar→ Addis Ababa ( ET117 ) PM: Discussion with concerned organizations (MoFED, MoWR, MoFA if necessary)	Addis Ababa
12	27-Nov-02	Wed	Discussion on Draft Minutes of Discussion with concerned organizations (MoFED, MoWR, MoFA if necessary)		Addis Ababa
13	28-Nov-02	Thu		AM: Signing Minutes PM: Report to EOJ and JICA Groundwater Development 1 & 2: to be continued (Table 3.3)	Addis Ababa
14	29-Nov-02	Fri	Addis Ababa (6:00)→ London ( BA6712 )		
15	30-Nov-02	Sat	Tokyo		

TABLE 3.3 PROPOSED ITINERARY OF THE STUDY TEAM (2/2)

Date			Groundwater Development 1	Stay	Groundwater Development 2	Stay	
14	29-Nov-02	Fri	Addis Ababa – Awasa	Awasa	Discussion with MoFA	Addis Ababa	
15	30-Nov-02	Sat	Off		Off	Asaita	
16	1-Dec-02	Sun			Addis Ababa – Asaita		
17	2-Dec-02	Mon	SNNP		Afar	Assab Tafari	
18	3-Dec-02	Tue			Asaita – Assab Tafari		
19	4-Dec-02	Wed			Assab Tafari		
20	5-Dec-02	Thu	Awasa – Addis Ababa	Addis Ababa	Assab Tafari – Addis Ababa	Addis Ababa	
21	6-Dec-02	Fri	Off	Jimma	Off	Jijiga	
22	7-Dec-02	Sat	Addis Ababa – Jimma	Mizan Tafari	Addis Ababa – Jijiga		
23	8-Dec-02	Sun	Jimma – Mizan Tafari	Jimma	Somali		
24	9-Dec-02	Mon	Mizan Tafari	Addis Ababa	Jijiga – Addis Ababa	Addis Ababa	
25	10-Dec-02	Tue	Mizan Tafari – Jimma	Meki	Addis Ababa – Birhar Dar	Birhar Dar	
26	11-Dec-02	Wed	Jimma – Addis Ababa	Meki	Amhara		
27	12-Dec-02	Thu	Addis Ababa – Meki		Awasa		Off
28	13-Dec-02	Fri	Meki	SNNP or Oromiya			Amhara
29	14-Dec-02	Sat	Meki – Awasa				
30	15-Dec-02	Sun	Off				
31	16-Dec-02	Mon					
32	17-Dec-02	Tue					
33	18-Dec-02	Wed					
34	19-Dec-02	Thu					
35	20-Dec-02	Fri		Addis Ababa	Bihar Dar – Addis Ababa	Addis Ababa	
36	21-Dec-02	Sat	Awasa – Addis Ababa	Off			
37	22-Dec-02	Sun	Off				
38	23-Dec-02	Mon	Kaliti Training Center				
39	24-Dec-02	Tue	Discussion with concerned organization				
40	25-Dec-02	Wed	Report Preparation				
41	26-Dec-02	Thu					
42	27-Dec-02	Fri	Report to JICA & EOJ				
43	28-Dec-02	Sat	Report Preparation				
44	29-Dec-02	Sun	Leave from Addis Ababa by BA-6712 on 6:00	-			

Note:

First schedule at each Region may be to visit WMERDB and WWCE for discussions and data collection.

Following schedule may be site reconnaissance.

### 3.4 ITEMS REQUESTED BY THE TEAM TO THE RECIPIENT SIDE

The Government and/or local governments of Ethiopia are requested to provide the Team for the smooth implementation of the Survey as follows;

- (1) To provide the Team with available relevant data, information and materials necessary for the execution of the Survey.
- (2) To prepare the answers for the Questionnaire presented by the Team.
- (3) To assign full-time (4 persons) and part-time (more than 4 persons) counterparts to the Team during their stay in Ethiopia to play the following roles:
  - To make appointments and set up the meetings with the authorities concerned whatever the Team intends to visit. (full-time counterparts)
  - To attend the site survey and any other visiting places with the Team and to make any convenience on getting the permissions, if required. (full-time counterparts)
  - To assist and to advise the Team for their collection of data and information as much as possible. (full-time counterparts)
  - To collect necessary data and information from concerned agencies of Ethiopia. (part-time counterparts)
- (4) To secure the permission to photograph and enter into private properties and restricted areas for the Team for proper execution of the Survey, if necessary.
- (5) To take appropriate measures deemed necessary to secure the safety of the members of the Team.
- (6) To make arrangements to allow the Team to bring back to Japan any necessary data, maps and materials related to the Survey, subject to approval by the Government of Ethiopia, in order to prepare the reports.

#### **4. DESCRIPTION OF THE REQUEST**

The six projects were requested by the Government of Ethiopia.

##### **4.1 GROUNDWATER DEVELOPMENT AND RURAL WATER SUPPLY PROJECT IN SEVER DROUGHT AFFECTED AREA (AMHARA PROJECT)**

(1) Project Area: Entire area of Amhara Regional State

(2) Project Type:

1) Case of facilities construction project

- Construction of 10 demonstration wells with submersible pump and water delivery system at 10 zones

2) Case of equipment supply project

- Well Drilling Equipment
- Well Rehabilitation Equipment
- Supporting Vehicles
- Geophysical and Borehole Test Equipment
- Well Pump and Casing Materials

(3) Project Cost: 8,453,297 US\$

(4) Implementing Agency: WMERDB, Amhara Regional State

##### **4.2 GROUNDWATER DEVELOPMENT IN DAWRO ZONE OF SNNPRS (SNNPRS DAWRO PROJECT)**

(1) Project Area: Dawro Zone, SNNPRS

(2) Project Type:

1) Case of facilities construction project

- Construction of 80 wells with submersible pump and 40 wells with hand pump with livestock trough
- Construction of Offices (2 units), GIS Laboratory (1 unit)
- Establishment of wide area network connecting the regional and zonal offices
- Procurement of Equipment; Well Drilling Machine, Geophysical Survey Equipment, Workshop Machine, Well Rehabilitation Machine, Well Casings, Submersible Pumps, and Hand pumps, Vehicles, bikes
- Technical Transfer on methods to operate, manage, and maintain the facilities or equipment



- Technical Transfer on management of water supply systems
- 2) Case of equipment supply project
  - Same Equipment as the above c), 1) Case 1
  - Technical Transfer on methods to operate, manage, and maintain the facilities or equipment
  - Technical Transfer on management of water supply systems
- (3) Project Cost: 8,000,000 US\$
- (4) Implementing Agency: WMERDB, SNNPRS

#### **4.3 SOUTHERN REGION GROUNDWATER SUPPLY PROJECT (SNNPRS PROJECT)**

- (1) Project Area: 6 zone of SNNPRS
- (2) Project Type:
  - 1) Case of facilities construction project
    - Construction of 50 wells with hand pump
    - Procurement of Equipment; Well Drilling Machine, Vehicles, Pumping Test Equipment, Logging Equipment, Well Casings, Submersible Pumps, Hand pumps and Spare Parts
    - Technical Transfer on methods to operate, manage, and maintain the facilities or equipment
  - 2) Case of equipment supply project
    - Same Equipment as the above case
    - Technical Transfer on methods to operate, manage, and maintain the facilities or equipment
- (3) Project Cost: ~~J¥~~915,000,000
- (4) Implementing Agency: WMERDB, SNNPRS

#### **4.4 RURAL WATER SUPPLY DEVELOPMENT PROJECT IN SEVERE DROUGHT AFFECTED LOW LANDS AREAS (OROMIYA PROJECT)**

- (1) Project Area: 30 Woredas in 5 zones, Oromiya Regional State
- (2) Project Type:
  - 1) Case of facilities construction project
    - Facilities Construction; 120 units of Deep wells with submersible pump, 80 units of Deep wells with hand pump,

- Procurement of Equipment; Well Drilling Machine, Truck Mounted Air Compressor, DTH hammer, Water Tanker, Well Rehabilitation Equipment, Pumping Test Equipment, Logging Equipment, Well Casings and Screens, Submersible Pumps with Generator, and Hand pumps, Vehicles, Workshop Equipment, Water Analysis Kits, Radio Communication Equipment, Spare Parts

2) Case of equipment supply project

- Same Equipment as the above case

(3) Project Cost: 16 Million US\$ (15.3 Million by Japan + 0.7 Million by Government)

(4) Implementing Agency: WMERDB, Oromiya Regional State

#### **4.5 THE PROJECT FOR WATER RESOURCE DEVELOPMENT IN PASTORAL COMMUNITIES OF ETHIOPIA (AFAR-SOMALI PROJECT)**

(1) Project Area: 5 zones of Somali Regional State and 9 zones of Afar Regional State

(2) Project Type:

- Community Development
- Equipment Supply
- Facility Construction: 50 wells with hand pump or solar pump

(3) Project Cost: J¥1,250 Million

(4) Implementing Agency: MoFA & WMERDBs of Afar/Somali

#### **4.6 THREE (3) TOWNS WATER SUPPLY PROJECT (OROMIYA-SNNPRS PROJECT)**

(1) Project Area: Asebe Teferi Town and Meki town, Oromiya/ Mizan Teferi Town, SNNPRS

(2) Project Type:

1) Facilities construction project

- Asabe Tafari Town; Construction of 19 wells, Installation of 28 borehole pumps, Construction of transmission pipelines, Construction of reservoir tank, break pressure tank, Installation of dosing equipment, Installation of distribution pipelines, Rehabilitation of 1 borehole & 2 reservoir tanks
- Meki Town; Construction of 2 wells, Installation of 8 borehole pumps, Construction of transmission pipelines, Construction of reservoir tank, Installation of dosing equipment, Installation of distribution pipelines

- Mizan Tafari Town, Construction of river intake, Installation of raw water pumps and raw water pipelines, Construction of water treatment plant, Installation of distribution pipelines, Construction of reservoir tank break pressure tank, Installation of dosing equipment, Construction of distribution pipelines, Stand-by generator in WTP
- 2) Technology transfer on methods to operate, manage, and maintain the facilities or equipment
- (3) Project Cost: J~~¥~~3.121 Billion
- (4) Implementing Agency: MWR, WMERDBs of Oromiya/SNNPRS

## **5. ITEMS TO BE DISCUSSED**

### **5.1 NATIONAL GOVERNMENT LEVEL**

- (1) Confirmation of Survey Itinerary
  - Arrangement of appointment, security conditions and counterparts
- (2) Purpose, Target and Contents of Requested Projects
- (3) Present Situation and Relationship of Water Sector in National and/or Regional Level
- (4) Linkage among central and local governments, WWDE, Training Center, Regional WWCE
- (5) National Development Plan (if new plan created after the request)
  - Problems on implementation of groundwater development project
  - Present situation on sanitation project in national and regional level

### **5.2 REGIONAL STATE LEVEL**

- (1) Confirmation of Survey Itinerary
  - Arrangement of appointment, security conditions and counterparts
- (2) Existing Water Supply Systems/Facilities
- (3) Operating and Maintenance of Existing Water Supply System
- (4) Regional Development Plan (if new plan created after the request)
  - Problems on implementation of groundwater development project
  - Present situation on sanitation project in national and regional level
- (5) Aid Assistance Conducted by Donor or International Organization

## 6. QUESTIONNAIRE

### 6.1 Questionnaire Items

**Table 6.1 List of Questionnaire Items for MoWR & WWDE (see File 05)**

<i>Category, Classification &amp; Descriptions</i>			<i>Sheet No.</i>	<i>Submit</i>
(1) Administration	Organization	Chart (concerned Ministry)	N-01	29-Nov
(2) Finance	Budget	National Balance Sheet	N-02	23-Dec
		Sectoral GDP	N-03	
		Past Public Works	N-04	
		ODA Assistance Program	N-05	
(3) Institution	Jurisdiction	Duties & Demarcation	N-06	29-Nov
	Law	Law, Regulation, Rule, Acts, etc.	N-07	
(4) Census	Area	Region/City or Zone	N-08	29-Nov
	Population	Population/House-holed	N-09	
(5) Natural	Maps	Topo/Geology/Hydrogeology	N-10	23-Dec
	Meteorology	Stations & Monthly Records	N-11	
(6) Social	Infrastructures	Coverage of Electric/Tel	N-12	23-Dec
(7) Water Supply	Sanitation	Safe Water Supply Coverage	N-13	
		Urban/Rural Classification	N-14	
		Water Supply Standard	N-15	
		Water Supply Service Level	N-16	
(8) Health	Statistics	Water Consumption Standard	N-17	
		Morbidity & Mortality	N-18	
		Water Related Disease	N-19	
(9) Market	Currency	Exchange Rate	N-20	23-Dec
	Private Sector	Local Contractor	N-21	

**Table 6.2 List of Questionnaire Items for WMERDB & WWCE (see File 06)**

<i>Category, Classification &amp; Descriptions</i>			<i>Sheet No.</i>	<i>Submit</i>
(1) Administration	Organization	Chart (concerned parties)	R-01	Afar:
		Engineer' Number/Skill	R-02	
(2) Finance	Budget	Regional Balance Sheet	R-03	2-Dec
(3) Institution	Jurisdiction	Duties & Demarcation	R-04	
(4) Census	Area	Zone/Woreda/Kebele	R-05	SNNP:
(5) Natural	Groundwater	Survey Reports	R-06	
		Examination Results	R-07	2-Dec
(6) Social	Facility	School Number	R-08	
		Market & Bus Terminal	R-09	Somali:
(7) Water Supply	Project	Past Implementation	R-10	
	Facility	Facility Inventory	R-11	9-Dec
		Source Inventory	R-12	
	Equipment	Rig Inventory	R-13	Oromiya:
		Construction/Repair Machine	R-14	
	Construction	Cost Sharing	R-15	Amhara:
(8) Health	Facility	Program Procedures	R-16	
		Water Tariff	R-17	
		Technical Assistance	R-18	13-Dec
(9) Market	Material	Hospital/Center/Station	R-19	
		Local Procurement	R-20	

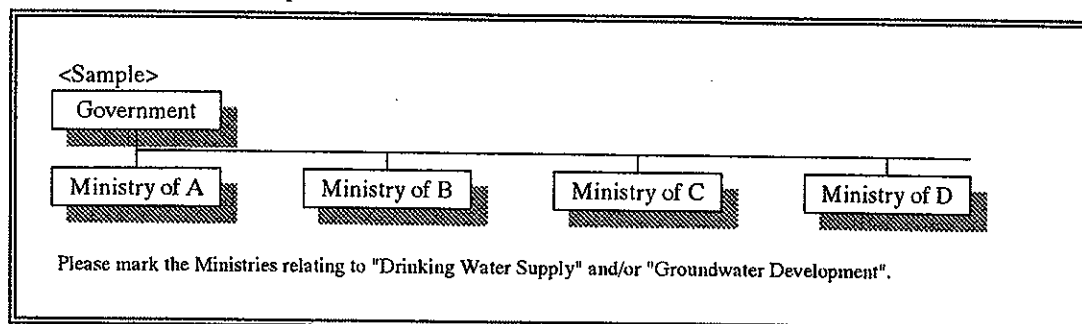
Note: Details are referred to "Sheet No." of each "File". Please provide available information and its source.

## 6.2 Questionnaire Forms

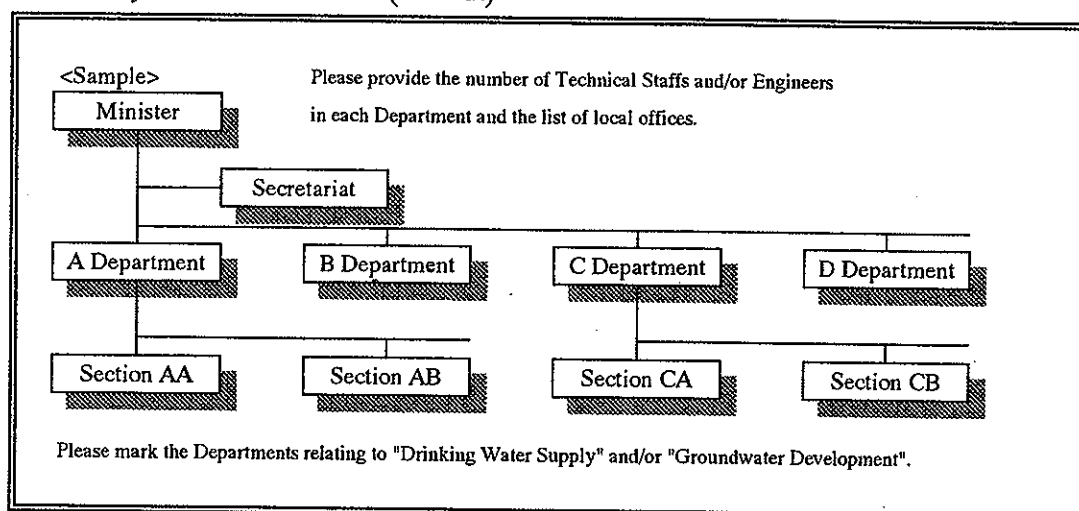
Sheet No. N-01

A: Please provide following latest "Organization Chart".

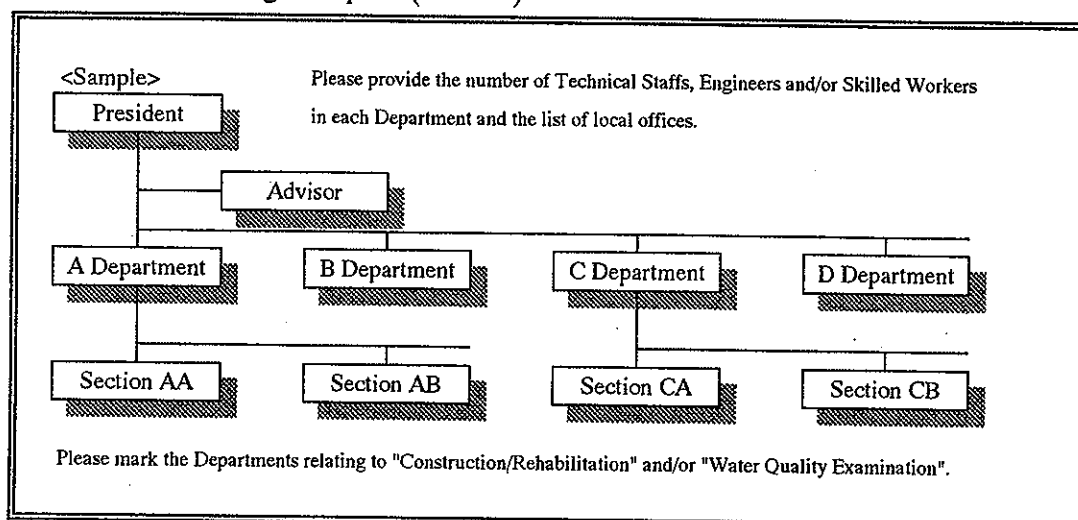
AA Government of Ethiopia



AB Ministry of Water Resources (MoWR)



AC Water Well Drilling Enterprise (WWDE)



B: Please provide explanation papers for present relationships below.

BA Between MoWR (AB) and WWDE (AC)

BB Between Central (AB/AC) and Regional Governments

**Sheet No. N-02**

**National Balance Sheet**

Category	FY1997		FY1998		FY1999		FY2000		FY2001	
	amount	%	amount	%	amount	%	amount	%	amount	%
Revenue										
	sub-total	100%	100%		100%		100%		100%	
Expenditure										
	sub-total	100%	100%		100%		100%		100%	
National Balance		-	-		-		-		-	

Note: Unit of amount is local currency (Birr) or US\$ with exchange rate.

**Sheet No. N-03**

**Sector GDP**

Category	FY1997		FY1998		FY1999		FY2000		FY2001	
	amount	%	amount	%	amount	%	amount	%	amount	%
Primary	Agriculture									
	Forestry									
	Livestock									
	others									
	sub-total									
Secondary	Industry									
	Construction									
	Mining									
	others									
	sub-total									
Tertiary	Commerce									
	Transport									
	Service									
	others									
	sub-total									
National Total										

Note: Unit of amount is local currency (Birr) or US\$ with exchange rate.

**Sheet No. N-04**

Please provide the list of "Public Works" for following sub-sectors in last 5-years.

**A: Water Supply**

AA Rural Water Supply

AB Urban Water Supply

AC Irrigation Water Supply

AD Groundwater Development

**B: Sanitation**

BA Sewerage

BB Waste Disposal

BC Public Toilet (Terminal, Market, School, etc.)

BD Water-Purity Control

**Sheet No. N-05**

Please provide the list of "Donor's Assistance" for following sub-sectors in last 5-years.

**A: Water Supply**

- |                              |                                   |
|------------------------------|-----------------------------------|
| <b>AA</b> Rural Water Supply | <b>AC</b> Irrigation Water Supply |
| <b>AB</b> Urban Water Supply | <b>AD</b> Groundwater Development |

**B: Sanitation**

- |                          |  |
|--------------------------|--|
| <b>BA</b> Sewerage       | <b>BC</b> Public Toilet (Terminal, Market, School, etc.) |
| <b>BB</b> Waste Disposal | <b>BD</b> Water-Purity Control                           |

**Sheet No. N-06**

**Administrative Duties**

Category		Central			Regional		
		MoWR	WWDE	others	WMERD B	WWCE	others
Water Supply	Guideline	Study and/or Survey					
		Planning					
		Facility' Designing					
		Drinking Water Quality					
	Construction	Urban Area					
		Rural Area					
		Housing Development					
	Activities	Sector Management					
		Education to Engineering					
Sanitation	Guideline	Facility' Designing					
		Sewerage					
	Construction	Waste Disposal					
		Public Toilet					
		Laboratory					
	Activities	Groundwater Preservation					
		Laboratory Operation					

Note: Please mark "A=Major/Primary", "B=Sub/Secondary", "C=Minor" and "D=None".

MoWR; Ministry of Water Resources

WWDE; Water Well Drilling Enterprise

WMERDB; Water Mines and Energy Development Bureau

WWCE; Water Works Construction Enterprise

**Sheet No. N-07**

Please provide the list of major Law, Regulation, Rule, Act, etc. relating to following.

**A: Water Supply**

- |                              |                                   |
|------------------------------|-----------------------------------|
| <b>AA</b> Rural Water Supply | <b>AC</b> Irrigation Water Supply |
| <b>AB</b> Urban Water Supply | <b>AD</b> Groundwater Rights      |

**B: Sanitation**

- |                          |  |
|--------------------------|--|
| <b>BA</b> Sewerage       | <b>BC</b> Public Toilet (Terminal, Market, School, etc.) |
| <b>BB</b> Waste Disposal | <b>BD</b> Water-Purity Control                           |



**Sheet No. N-08 & N-09**

## Census Information

Region		Location		Area	Latest Census (FY????)	
	Zone/City	Woreda	Kebele	km2	Population	Household
Addis Ababa						
Afar						
total number						
Amhara						
total number						
Benshangul						
Dire Dawa						
Gambela						
Harari						
Oromiya						
total number						
SNNP						
total number						
Somali						
total number						
Tigray						

**Sheet No. N-10**

**Maps Required**

Type of Map	Required Scale	Coverage Area
Topographical	1/1,000,000 or 1/2,000,000	Country - Regions
Geological		
Hydrogeological	1/500,000 or smaller	Country - Regions - Zones
Administrative Area	any (with major road & towns)	
Air-Transportation	any (Domestic & International)	Country

Note: Please provide the latest "Time-Table" for domestic air transportation.

**Sheet No. N-11**

**Identifications of Major Meteorological Stations**

Address		Cord No.	Location		Height (m)
Region/City	Capital		Latitude	Longitude	
Addis Ababa					
Afar					
Amhara					
Benshangul					
Dire Dawa					
Gambela					
Harari					
Oromiya					
SNNP					
Somali					
Tigray					

**A: Average Monthly Records in Last 10-years (Afar, Amhara, Oromiya, SNNP, Somali)**

Para.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rain												
Temp.												
Evapo.												
Sun.												

Note: **Rain**=rainfall (mm/month), **Temp.**=average monthly temperature (C),  
**Evapo.**=evapotranspiration (mm/day), **Sun.**= sunshine (hrs/day)

**B: Average Monthly Records in Last 10-years (remaing 6 Regions)**

Para.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rain												
Temp.												

Note: **Rain**=rainfall (mm/month), **Temp.**=average monthly temperature (C),

Sheet No. N-12

**Coverage of Infrastructures by Kebele Number**

Location		Number of Kebele	Service Coverage		Electric Supply (hrs/day)
Region	Zone/City		Electric (%)	Telephone (%)	
Addis Ababa	-				
Afar					
total number					
Amhara					
total number					
Benshangul	-				
Dire Dawa	-				
Gambela	-				
Harari	-				
Oromiya					
total number					
SNNP					
total number					
Somali					
total number					
Tigray	-				

Sheet No. N-13

**Safe Water Supply Coverage by Kebele Number**

Location		Public Water Supply		Private Water Supply	
Region	Zone/City	Safe	Unsafe	Safe	Unsafe
Addis Ababa					
Afar					
total number					
Amhara					
total number					
Benshangul					
Dire Dawa					
Gambela					
Harari					
Oromiya					
total number					
SNNP					
total number					
Somali					
total number					
Tigray					

**Sheet No. N-14, N-15, N-16, N-17**

Please provide the explanation papers for following "Definition", "Standard" and "Criterion".

A: Definition AA Urban & Rural Classification

AB Safe Water Supply

B: Standard BA Facility's Design

BB Drinking Water Quality

C: Criterion CA Service Level

CB Water Consumption

**Sheet No. N-18**

**Morbidity & Mortality by Region**

Three Leading Causes		Health Status		
		number	rate	rate ranking
		capita	1/1,000	(national)
Morbidity	1			
	2			
	3			
Mortality	Child (U5) 1			
	2			
	3			
	Infant (U1) 1			
	2			
	3			

Note: Child (U5)=under 5-year old, Infant (U1)=under 1-year old. Please provide "Regional Tables".

**Sheet No. N-19**

**Notifiable Water Related Disease by Region**

Three Leading Disease by Morbidity		Morbidity		Mortality			
				Child		Infant	
		number	rate	number	rate	number	rate
		capita	1/1,000	capita	1/1,000	capita	1/1,000
Water Based	1						
	2						
	3						
Water Washed	1						
	2						
	3						
Water Vector	1						
	2						
	3						

Note: Type of diseases are defined by the WHO. Please provide "Regional Tables".

**Sheet No. N-20**

**Exchange Rate of Birr per US\$ by TTS index in the Central Bank (as of FY2002)**

May		June		July		August		September		October	
date	rate	date	rate	date	rate	date	rate	date	rate	date	rate
1		1		1		1		1		1	
2		2		2		2		2		2	
3		3		3		3		3		3	
4		4		4		4		4		4	
5		5		5		5		5		5	
6		6		6		6		6		6	
7		7		7		7		7		7	
8		8		8		8		8		8	
9		9		9		9		9		9	
10		10		10		10		10		10	
11		11		11		11		11		11	
12		12		12		12		12		12	
13		13		13		13		13		13	
14		14		14		14		14		14	
15		15		15		15		15		15	
16		16		16		16		16		16	
17		17		17		17		17		17	
18		18		18		18		18		18	
19		19		19		19		19		19	
20		20		20		20		20		20	
21		21		21		21		21		21	
22		22		22		22		22		22	
23		23		23		23		23		23	
24		24		24		24		24		24	
25		25		25		25		25		25	
26		26		26		26		26		26	
27		27		27		27		27		27	
28		28		28		28		28		28	
29		29		29		29		29		29	
30		30		30		30		30		30	
31				31		31				31	

**Sheet No. N-20**

Please provide the following information of local contractor (well drilling and civil construction).

**A Identification**

Name, Address, Capital, Establishment, etc.

**B Human Source**

Number of Engineers, Technical Staffs, Skilled Workers, etc.

**C Inventory**

Number and Capacity of Rig, Heavy Equipment, Instrument, etc

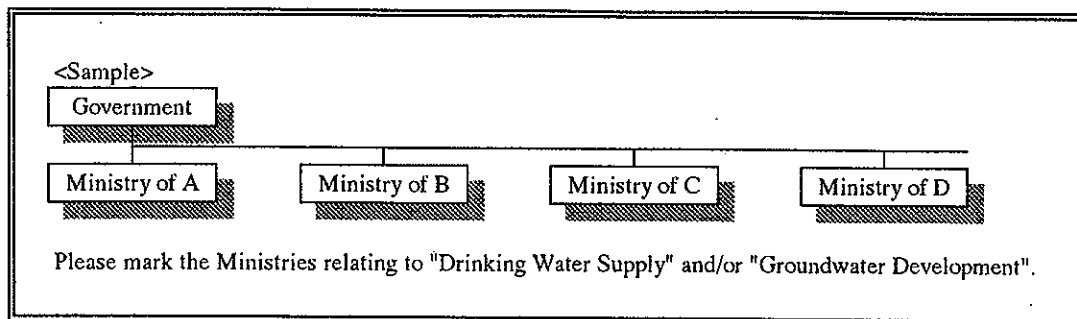
**D Achievements**

Name and Contract Price of Past Projects in last 5-years.

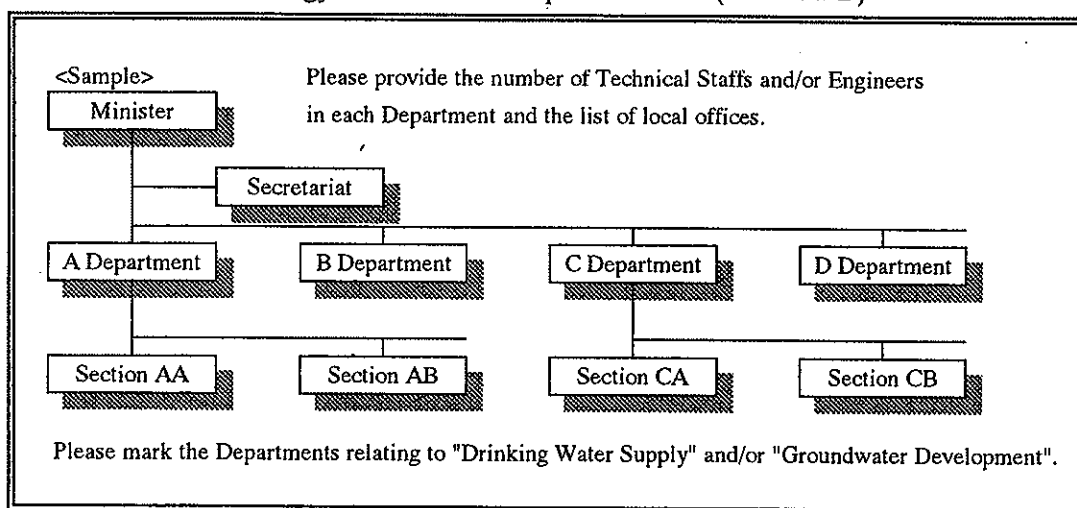
**Sheet No. R-01 & R-02**

**A:** Please provide following latest "Organization Chart" (Afar, Amhara, Oromiya, SNNP, Somali).

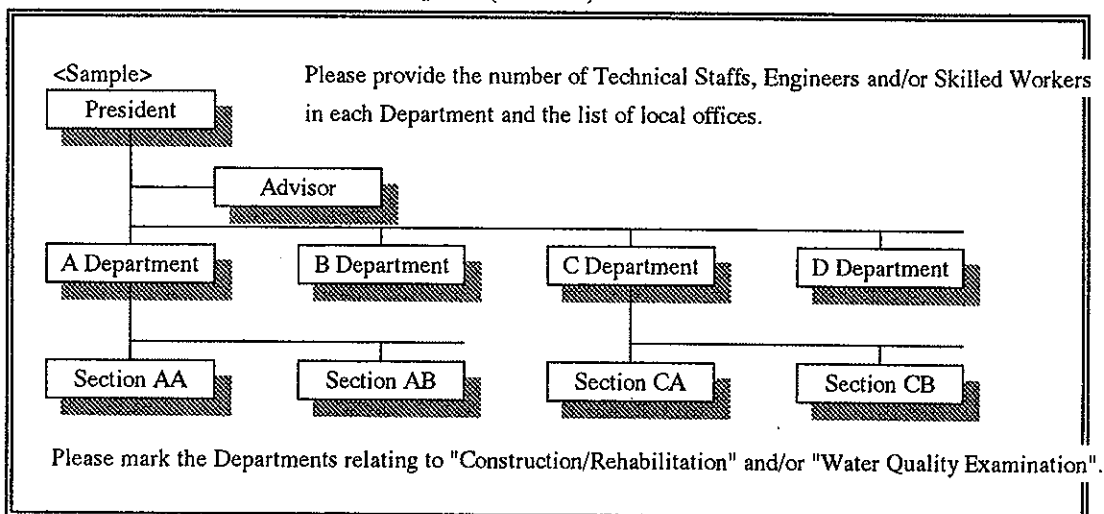
**AA Government of Regional State**



**AB Water Mines and Energy Resources Development Bureau (WMERDB)**



**AC Water Works Construction Enterprise (WWCE)**



**B:** Please provide explanation papers for present relationships below.

**BA** Between WMERDB (AB) and WWCE (AC)

**BB** Between Regional (AB/AC) and Central Governments

**Sheet No. R-03**

**Regional Balance Sheet** (Afar, Amhara, Oromiya, SNNP, Somali)

Category	FY1997		FY1998		FY1999		FY2000		FY2001	
	amount	%	amount	%	amount	%	amount	%	amount	%
Revenue										
	sub-total	100%	100%		100%		100%		100%	
Expenditure										
	sub-total	100%	100%		100%		100%		100%	
Regional Balance		-	-		-		-		-	

Note: Unit of amount is local currency (Birr) or US\$ with exchange rate.

**Sheet No. R-04**

**Administrative Duties** (Afar, Amhara, Oromiya, SNNP, Somali)

Category			Central			Regional		
			MoWR	WWDE	others	WMERD B	WWCE	others
Water Supply	Guideline	Study and/or Survey						
		Planning						
		Facility' Designing						
		Drinking Water Quality						
	Construction	Urban Area						
		Rural Area						
		Housing Development						
	Activities	Sector Management						
		Education to Engineering						
Sanitation	Guideline	Facility' Designing						
	Construction	Sewerage						
		Waste Disposal						
		Public Toilet						
		Laboratory						
	Activities	Groundwater Preservation						
		Laboratory Operation						

Note: Please mark "A=Major/Primary", "B=Sub/Secondary", "C=Minor" and "D=None".

MoWR; Ministry of Water Resources

WWDE; Water Well Drilling Enterprise

WMERDB; Water Mines and Energy Development Bureau

WWCE; Water Works Construction Enterprise

**Sheet No. R-05**

**Regional Census** (Afar, Amhara, Oromiya, SNNP, Somali)

Location			Latest Census (FY????)	
Zone	Woreda	Kebele	Population	Household
<b>total</b>				

**Sheet No. R-06 & R-07**

Please provide the following information (Afar, Amhara, Oromiya, SNNP, Somali).

## A: Plan & Survey

- AA** Master Plan and/or Feasibility Study on Rural Water Supply  
**AB** Groundwater Investigation (Prospecting, Well Inventory, etc.)

### B: Examination

- |           |  |
|-----------|--|
| <b>BA</b> | Well Performance (Pumping Test, Water Level Observation, etc.) |
| <b>BB</b> | Groundwater Quality (Sampling, Analysis, Evaluation, etc.)     |

**Sheet No. R-08 & R-09**

**Number of Facility (Afar, Amhara, Oromiya, SNNP, Somali).**

Location		School		Public	
Zone	Woreda	Elementary	Junior-High	Market	Terminal
total					

**Sheet No. R-10**

Please provide the list of project information below (Afar, Amhara, Oromiya, SNNP, Somali).

**A: Sector and Sub-sector of the Project (in last 10-years)**

- |           |               |   |
|-----------|---------------|---|
| <b>AA</b> | Water Supply; | Rural, Urban, Irrigation and<br>Groundwater Development for Multiple purposes |
| <b>AB</b> | Sanitation;   | Sewerage, Waste Disposal, Public Toilet and<br>Water-Purity Control           |

## B: Project Information

- |           |                         |  |
|-----------|-------------------------|--|
| <b>BA</b> | <b>Identifications;</b> | <b>Implementation Agency, Active Period, Target Area, Financial Source, etc.</b>                     |
| <b>BB</b> | <b>Outcome;</b>         | <b>Number of Facility, Coverage, Improvement Indicator, Post Monitoring Information/Report, etc.</b> |



**Sheet No. R-11**

**Number of Drinking Water Supply Facility/System** (Afar, Amhara, Oromiya, SNNP, Somali)

Location		Public			Private	
Zone	Woreda	Level-III	Level-II	Level-I	Individual	Communal
total						

Notes: Level-III = piped network system with household connections  
 Level-II = piped radial system with public/communal faucets  
 Level-I = point source facility with a public faucet  
 Individual = in-house use  
 Communal = subdivision use  
 Water Tanker Supply and Bottle Supply are not included.

**Sheet No. R-12**

**Inventory of Water Source for Drinking Water Supply** (Afar, Amhara, Oromiya, SNNP, Somali)

Location		Water Source						Pump Type			
Zone	Woreda	Dug Well	Tube Well (depth in mbgs)				Spring	Surface Water	Hand-pump	Motor Pump	others
			less 50m	50 to 100m	100 to 200m	more 200m					
total											

Note: mbgs = meter below ground surface

**Sheet No. R-13 & R-14**

Please provide the list of equipment inventory below (Afar, Amhara, Oromiya, SNNP, Somali)

**A: Well Drilling**

- AA Rig; Type, Rated Capacity, Age, Function, Spare Parts
- AB Support; Tanker, Crane, Air Compressor, Submersible Pump, etc.
- AC Consumables: Drilling Tools, Bits, Bentonite, Chemical Agents, etc.

**B: Peripherals**

- BA Civil, Electrical and Mechanical Works
- BB Well Rehabilitation
- BC Machinery Repair
- BD Instruments; Prospecting, Logger, Water Quality Examination, etc.

**C: Related Facility**

- CA Warehouse
- CB Repair Workshop
- CC Laboratory

**Cost Sharing of Works for Rural Water Supply** (Afar, Amhara, Oromiya, SNNP, Somali)

Description of Stage, Activities & Procurement		Administration					End Users
		MoWR	other Central	WMERDB	WWCE	other Regional	
Plan	Needs Assessment						
	Project Cycle Management						
Study	if any						
	Kebele Mapping						
	Gender Consideration						
Construction	if any						
	Land Acquisition						
	Drilling						
	Workers						
	Skill Labor						
	Water Source						
	Development (Well)						
	Materials						
	Consumables						
	Testing						
Operation	Pump						
	Power Unit						
	Drainage, Protection Fence, etc.						
	Preparation of O/M Manual & Parts Supplier						
	if any						
	Water Tariff Collection						
	Water Quality Examination						
	if any						
	Prevention & Breakdown Activities/Tools						
	Parts Supply (Procurement)						
Maintenance	if any						
	Pump Repair						
	Technical						
	Pump Replace						
	Assistance/Requirement						
Monitoring	Well Rehabilitation						
	Sanitary Education						
	Facility Conditions						
	Utility Coverage						
	Health Status						
	if any						

Legend: ◎ Most (90-100%), ○ Main (70-90%), □ Major (50-70%),

△ Minor (30-50%), × Often (10-30%), — Rare (0-10%)

Proportion of works is estimated by the value of cost and/or detachment.

Participatory approach for program promotion shall be considered.

**Program Procedures** (Afar, Amhara, Oromiya, SNNP, Somali)

Official Communication Procedures & Activities by Stage		Donor	Administration			End User
			MoWR	WMERDB	WWCE	
Request	1. Who prepares the request for construction of facility?					
	2. Who receives the request above?					
	3. Who consolidates the requests for plan and/or project?					
Evaluate	4. Who evaluates the results of consolidation above?					
	5. Who judges their prioritization order for construction?					
	6. Who manages the above procedures?					
Select	7. Who selects or nominates the eligible sites?					
	8. Who decides candidate sites for construction?					
	9. Who discusses the work sharing with end users?					
Design	10. Who prepares the standard design of facility?					
	11. Who judges the necessity of water purification?					
	12. Who approves the design of facility?					
Construct	13. Who procures the equipment?					
	14. Who owns/operates/maintains such equipment?					
	15. Who has responsibility of construction work?					
	16. Who judges the final well design?					
	17. Who shares costs of equipment and depreciation?					
	18. Who shares costs of materials?					
Turn-over	19. Who shares costs of accessories (pump/generator)?					
	20. Who applies the groundwater rights?					
	21. Who owns the water supply facility?					
	22. Who owns the facility's accessories?					
	23. Who owns the expansion facility?					
Operate	24. Who nominates/approves the operation body?					
	25. Who are member of such operation body?					
	26. Who shares the operation cost?					
Maintain	27. Who maintains the facility?					
	28. Who can request the on-the-job-training?					
	29. Who transfers the technical assistances?					
	30. Who shares maintenance cost?					

Legend: ◎ Most (90-100%), ○ Main (70-90%), □ Major (50-70%),

△ Minor (30-50%), × Often (10-30%), — Rare (0-10%)

Proportion of works is estimated by the value of action, responsibility and coordination.

Participatory approach for program promotion shall be considered.

**Sheet No. R-1**

**Water Tariff** (Afar, Amhara, Oromiya, SNNP, Somali)

**A: Composition of Water Tariff** (majority or average)

- AA** . Operation Fee; book keeping, tariff collection, etc.  
**AB** Maintenance Fee; repair order, parts cost, etc.

**B: Water Tariff Collection** (majority or average)

- BA** Charge; cost in Birr and per volume or person/family  
**BB** Collection; period (daily/weekly/monthly)

**Sheet No. R-18**

**Technical Assistance** (Afar, Amhara, Oromiya, SNNP, Somali)

Participants & Training Contents		Administration			User	Remarks (How Often)
		WMERDB	WWCE	others		
Enlightenment	Sanitary Education				-	
	Water Quality				-	
	Engineering				-	
	Technologies				-	
Workshop	Sanitary Works					
	Daily Operation Work					
	Maintenance Work					
	Financial Arrangement					
Lecture	Engine Repair	-	-	-		
	Pump Repair	-	-	-		
	Plumbing Repair	-	-	-		
	Civil Work	-	-	-		

**Sheet No. R-19**

Please provide the list of Health Facilities (Afar, Amhara, Oromiya, SNNP, Somali)

Hospital, Health Center, Health Station, etc.

**Sheet No. R-20**

Please provide the list of available local materials (Afar, Amhara, Oromiya, SNNP, Somali)

**A: Well Casing Pipe**

(Carbon Steel, Stainless Steel, Unplasticized Polyvinyl Chloride, Fiber Reinforced Pipe, etc.)

**B: Well Screen Pipe** (Slit, Wound-Wire, etc)

**C: Pump** (Hand-pump, Submersible Pump, Solar Pump, etc.)

**D: Power Unit** (Engine Generator, Hydro-power, Solar Battery, etc.)

**MINUTES OF DISCUSSIONS  
ON THE PRELIMINARY STUDY  
ON THE PROJECT FOR WATER SUPPLY  
IN THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA**

In response to the requests from the Government of the Federal Democratic Republic of Ethiopia (hereinafter referred to as "Ethiopia"), the Government of Japan decided to conduct the Preliminary Study on THE PROJECT FOR WATER SUPPLY (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent the Preliminary Study Team (hereinafter referred to as "the Team") to Ethiopia, which is headed by Mr. Tetsuo YABE, Senior Assistant to the Managing Director, Office of Technical Coordination and Examination, Grant Aid Management Department, JICA, and is scheduled to stay in the country from November 17 to December 29, 2002.

The Team held discussions with the concerned officials of the Government of Ethiopia and conducted a field survey in the study area.

As a result of discussions and field survey, both parties have confirmed the main items of the Project as described on the attached sheets.

Addis Ababa, November 27, 2002



Mr. Tetsuo YABE  
Leader  
Preliminary Study Team  
Japan International Cooperation Agency  
Japan



Mr. Hailemichael Kinfu  
Head  
Bilateral Cooperation Department  
Federal Ministry of Finance and Economic  
Development  
Federal Democratic Republic of Ethiopia

## ATTACHMENT

### 1. Objective of the Project

The objective of the Project is to improve the health and living standard of the people by providing potable water through the construction of water supply facilities and/or the procurement of equipment related to groundwater development.

### 2. Project Sites

The Project sites requested by the Ethiopian side are located at the five (5) Regional States of Afar, Amhara, Oromiya, Somali and Southern Nations, Nationalities and People's Regional State (SNNPRS).

### 3. Responsible and Implementing Agencies

The responsible agency is the Ministry of Finance and Economic Development (MoFED) and the implementing agency is each Water Mines and Energy Resources Development Bureau of National Regional State, the Federal Ministry of Water Resources or the Ministry of Federal Affairs. Their responsibilities are to be clarified in the further study.

### 4. Schedule of the Study

The consultants of the Team will proceed to carry out further study until December 29, 2002.

For the smooth implementation of the study, the Ethiopian side promised to provide necessary arrangement mentioned below:

- (1) To provide the Team with available relevant data, information and materials necessary for the execution of the study.
- (2) To prepare the answers for the Questionnaire presented by the Team by the time described in the Inception Report.
- (3) To assign full-time and part-time counterparts to the Team during their stay in Ethiopia to play the following roles:
  - To make appointments and set up the meetings with the authorities concerned whatever the Team intends to visit. (full-time counterparts)
  - To attend the site survey and any other visiting places with the Team and to make any convenience on getting the permissions, if required. (full-time counterparts)
  - To assist and to advise the Team for their collection of data and information as much as possible. (full-time counterparts)
  - To collect necessary data and information from concerned agencies of Ethiopia. (part-time counterparts)
- (4) To secure the permission to photograph and enter into private properties and restricted areas for the Team for proper execution of the study, if necessary.



- (5) To take appropriate measures deemed necessary to secure the safety of the members of the Team.
- (6) To make arrangements to allow the Team to bring back to Japan any necessary data, maps and materials related to the study, subject to approval by the Government of Ethiopia, in order to prepare the reports.

## **5. Items Requested by the Government of Ethiopia**

The six projects were requested by the Government of Ethiopia for Japan's Grant Aid. They were;

- The Project for Rural Water Development in the Newly Emerging Regions of Afar, and Somali Regional States
- Groundwater Development and Rural Water Supply Project in Sever Drought Affected Area (Amhara Regional State)
- Rural Water Supply Development Project in Severe Drought Affected Low Lands Areas (Oromiya Regional State)
- Groundwater Development in Dawro Zone of SNNPRS
- Southern Region Groundwater Supply Project
- Three Towns Water Supply Project (Oromiya Regional State and SNNPRS)

However, after having discussion between the SNNPRS and the Team, the two requests from the Region namely "Groundwater Development in Dawro Zone of SNNPRS" and "Southern Region Groundwater Supply Project" would be merged.

Therefore, the number of water supply projects requested by the Government of Ethiopia was abridged at five.

Since both sides agreed that it was necessary to clarify the contents of each request, the Team will proceed with further study and confirm the contents of the request (detail project site, target population, scheme and number of water supply facilities, major items and quantity of equipment/materials, project cost, etc.) through having discussion with each implementing agency.

The result of the confirmation of the contents of the requests should be reported to JICA Ethiopia Office through MoFED by each implementing agency in writing by the end of this Study.

## **6. Selection of the candidate project for Japan's Grant Aid**

The Ethiopian side explained that all the five requested projects were placed in accordance with the "Sustainable Development and Poverty Reduction Program (SDPRP)", since the water and sanitation sector is stated as the one of key sectors in the SDPRP. The Ethiopian side also showed the Team the priority among the requested Projects as follows considering urgency, extent of the problem, conditions of existing water facilities and so on;

1. The Project for Rural Water Development in the Newly Emerging Regions of Afar, and Somali Regional States



2. Groundwater Development and Rural Water Supply Project in Sever Drought Affected Area (Amhara Regional State)
3. Groundwater Development Project in SNNPRS (merged from the two original requests of "Groundwater Development in Dawro Zone of SNNPRS" and "Southern Region Groundwater Supply Project")
4. Rural Water Supply Development Project in Severe Drought Affected Low Lands Areas (Oromiya Regional State)
5. Three Towns Water Supply Project (Oromiya Regional State and SNNPRS)

Both sides agreed that the candidate project for a basic design study for Japan's Grant Aid would be decided by the Government of Japan based on analysis and examination of the result of the Preliminary Study. The requested projects will be examined by applying criteria below:

- priority accorded by the Government of Ethiopia
- relevance of the project to national/regional development plan/policy in water and sanitation sector
- cost effectiveness/ number of beneficiaries to be covered by the project
- water coverage rate
- sanitary conditions (living environment)
- conditions of existing water facilities
- technical and managerial competence of the implementing organization
- absence of water projects by other donors/NGOs
- hydrogeological conditions
- drought conditions
- budgetary allocation of the Japanese side
- sustainability of the project
- safety and security condition of project site

After the candidate project is decided by the Government of Japan, the result will be informed to MoFED prior to the commencement of the basic design study. MoFED shall take responsibility to inform the result to each implementing agencies and make necessary coordination.

## 7. Japan's Grant Aid System

The Ethiopian side understood the Japan's Grant Aid system and the necessary measures to be taken by the Government of Ethiopia as explained by the Team and described in Annex-I, as a condition for the Japan's Grant Aid to be implemented.

## 8. Other Relevant Issues

### (1) Action plan for water and sanitation sector

The Team recommended to the Ethiopian side to prepare detail action plan for activity of water and sanitation sector in each region respectively based on the Water Sector Development Program, so that

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an implementing agency was able to have insight for future activity and prepare budget or manpower plan efficiently. The Team explained that the Japanese assistance was to assist a part of their activity according to their action plan, and components of cooperation were decided based on such an action plan.

(2) Implementation of the requested projects

The Ethiopian side requested the Japanese side the continuous grant aid assistance in water and sanitation sector after implementation of the first prioritized project among the five requests, although understanding that the Team had no mandate to make any commitment concerning implementation of the Japan's Grant Aid.

The Team promised to convey the request to the Government of Japan.

(3) Technical Transfer

The Ethiopian side requested to include necessary technical transfer for capacity building of concerned personnel during implementation of the Japan's Grant Aid. The Team explained that the request would be examined constructively when the necessity and appropriateness was recognized.



## JAPAN'S GRANT AID

## 1. Japan's Grant Aid System

## (1) Grant Aid Procedures

- 1) Japan's Grant Aid Program is executed through the following procedures.
  - Application (Request made by a recipient country)
  - Study (Basic Design Study conducted by JICA)
  - Appraisal & Approval (Appraisal by the Government of Japan and Approval by the Cabinet)
  - Determination of the implementation  
(The Notes exchanged between the Governments of Japan and the recipient country)
  - Implementation (Implementation of the Project)
- 2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using Japanese consulting firms.

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Programme, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

## (2) Basic Design Study

## 1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a requested project (hereinafter referred to as "the Project"), is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows:

- i) Confirmation of the background, objectives and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation;
- ii) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic points of view;
- iii) Confirmation of items agreed on by both parties concerning the basic concept of the Project;
- iv) Preparation of a basic design of the Project; and
- v) Estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

2) Selection of Consultants

For the smooth implementation of the Study, JICA uses a registered consulting firm. JICA selects a firm based on proposals submitted by interested firms. The firm selected carries out a Basic Design Study and writes a report, based upon terms of reference set by JICA.

The consultant firm used for the Study is recommended by JICA to the recipient country to also work in the Project's implementation after the Exchange of Notes, in order to maintain technical consistency and also to avoid any undue delay in implementation should the selection process be prepared.

(3) Japan's Grant Aid Scheme

1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

- 3) "The period of the Grant" means the one fiscal year which the Cabinet approves the project for. Within the fiscal year, all procedure such as exchanging of the Notes, concluding contracts with consulting firms and contractors and final payment to them must be completed. However, in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

- 4) Under the Grant, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However, the prime contractors, namely consulting, contracting and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

5) Necessity of "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability of Japanese taxpayers.

6) Undertakings required to the Government of the recipient country

In the implementation of the Grant Aid project, the recipient country is required to undertake such necessary measures as the followings:

- i) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction;
- ii) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the site;
- iii) To secure buildings prior to the procurement in case the installation of the equipment;



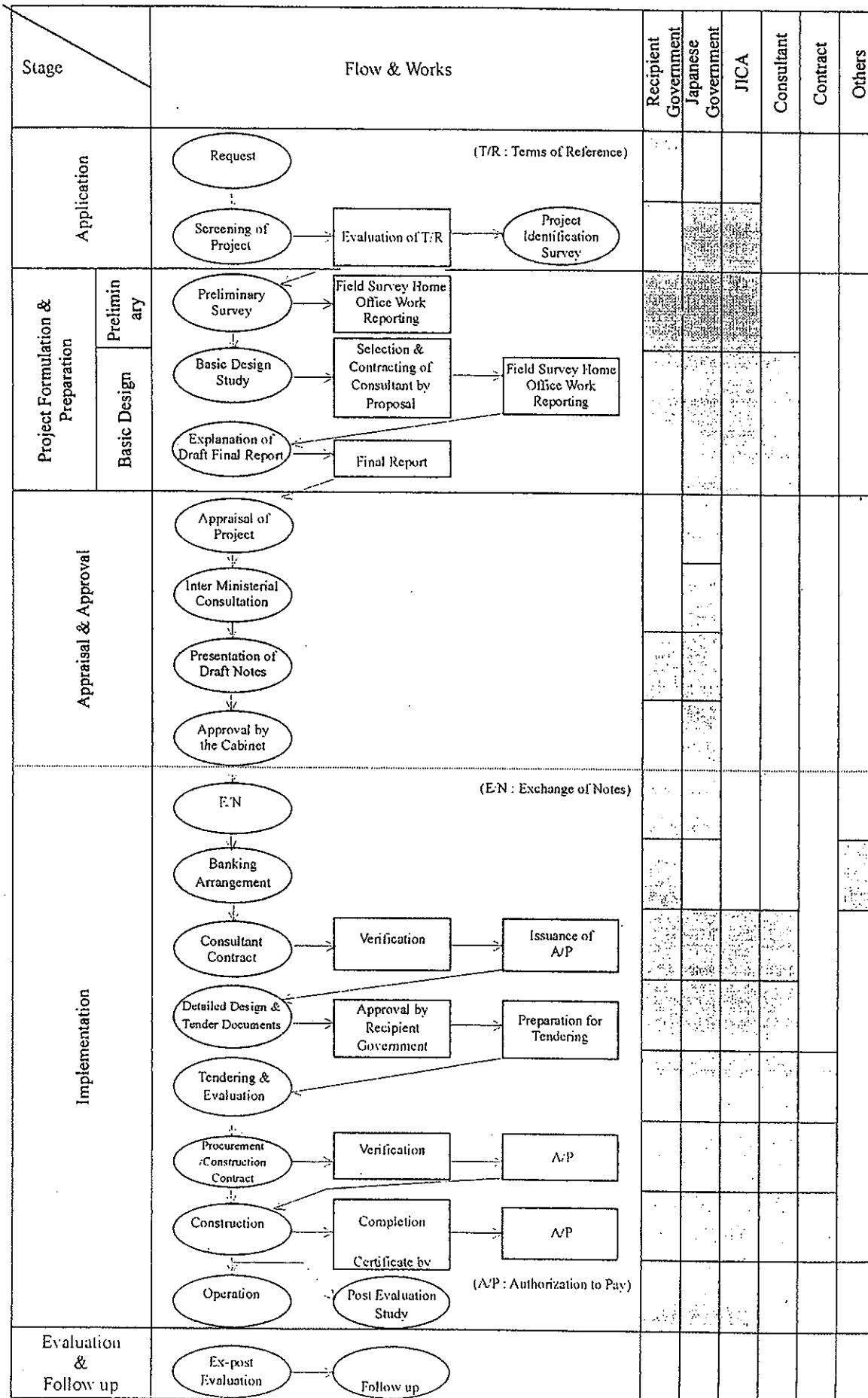
- iv) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid;
- v) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts;
- vi) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such as facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work;
- vii) "Proper Use"  
The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign the necessary staff for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.
- viii) "Re-export"  
The products purchased under the Grant Aid shall not be re-exported from the recipient country.
- ix) Banking Arrangement (B/A)
  - a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the verified contracts.
  - b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay (A/P) issued by the Government of recipient country or its designated authority.

## 2. Grant Aid Procedure

- (1) Flowchart of Japan's Grant Aid Procedures  
Refer to Attachment 1.
- (2) Major Undertaking to be taken by Each Government  
Refer to Attachment 2.



## FLOW CHART OF JAPAN'S GRANT AID PROCEDURES



## Major Undertakings to be taken by Each Government

No	Items	To be covered by	
		Grant Aid	Recipient Country
1	To secure land		●
2	To clear, level and reclaim the site when needed		●
3	To construct gates and fences in and around the site		●
4	To construct the parking lot	●	
5	To construct roads		
	1) Within the site	●	
	2) Outside the site		●
6	To construct the building	●	
7	To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities		
	1) Electricity		
	a. The distributing line to the site		●
	b. The drop wiring and internal wiring within the site	●	
	c. The main circuit breaker and transformer	●	
	2) Water Supply		
	a. The city water distribution main to the site		●
	b. The supply system within the site ( receiving and/or elevated tanks )	●	
	3) Drainage		
	a. The city drainage main ( for storm, sewer and others ) to the site		●
	b. The drainage system ( for toilet sewer, ordinary waste, storm drainage and others ) within the sit	●	
	4) Gas Supply		
	a. The city gas main to the site		●
	b. The gas supply system within the site	●	
	5) Telephone System		
	a. The telephone trunk line to the main distribution frame/panel (MDF) of the building		●
	b. The MDF and the extension after the frame/panel	●	
	6) Furniture and Equipment		
	a. General furniture		●
	b. Project equipment	●	
8	To bear the following commissions to a bank of Japan for the banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
9	To ensure prompt unloading and customs clearance at port of disembarkation in recipient country		
	1) Marine(Air) transportation of the products from Japan to the recipient country	●	
	2) Tax exemption and customs clearance of the products at the port of disembarkation		●

	3) Internal transportation from the port of disembarkation to the project site	(●)	(●)
10	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		●
11	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts		●
12	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid		●
13	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for construction of the facilities as well as for the transportation and installation of the equipment		●

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収集資料リスト

番号	名称	形態	資料収集先				発行機関
			相手国	専門家	JICA	テキスト	
01-01	「エ」国行政・流域図	地図	○				水資源省
01-02	「エ」国地形図	地図	○				水資源省
01-03	「エ」国地質図	地図	○				水資源省
01-04	「エ」国水理地質図	地図	○				水資源省
02-01	水分野開発計画（案） ：水供給・衛生編	コピー	○				水資源省
02-02	水分野開発計画（案） ：組織編	コピー	○				水資源省
02-03	「エ」国推定人口	コピー	○				財務経済開発省
02-04	地図カタログ	本	○				地図局
02-05	「エ」国地質図説明	本	○				地質調査所
02-06	Water Action	本	○				NGO: Water Action



