

Appendices

A1. Member List of the Study Team

A1. Member list of the Study Team

(1) Out line study

April 12, 2009 – May 21, 2009

	Name	Job title	Organization
1	Yuji MARUO	Team leader	Japan International Cooperation Agency(JICA) International Corporation Adviser
2	Itsuro TAKAHASHI	Planning management	Water Resources Management Division II Water Resources and Disaster Management Group Global Environment Department (JICA) Special Adviser
3	Hiroshi FUJITA	Chief Consultant/ Water supply planning/ Ground water development 1	Project Management Division, International Cooperation Department, Kokusai Kogyo Co., Ltd.
4	Yuji UNE	Equipment planning/ Technical assistance planning 1	Wasco inc.
5	Shigekazu FUJISAWA	Cost Estimation 1	Environmental Management Division, International Cooperation Department, Kokusai Kogyo Co., Ltd.
6	Takeshi YOSHIKAWA	Water distribution planning / Design	Project Management Division, International Cooperation Department, Kokusai Kogyo Co., Ltd.
7	Norikazu YAMAZAKI	Social Survey/ Environmental impact assessment	Urban Management Division, International Cooperation Department, Kokusai Kogyo Co., Ltd.

(2) Explanation of Outline Design Study Draft Report

July 18, 2009 – July 25, 2009

	Name	Job title	Organization
1	Yuji MARUO	Team leader	Japan International Cooperation Agency(JICA) International Corporation Adviser
2	Itsuro TAKAHASHI	Planning management	Water Resources Management Division II Water Resources and Disaster Management Group Global Environment Department (JICA) Special Adviser
3	Hiroshi FUJITA	Chief Consultant/ Water supply planning/ Ground water development 1	Project Management Division, International Cooperation Department, Kokusai Kogyo Co., Ltd.
4	Yuji UNE	Equipment planning/ Technical assistance planning 1	Wasco inc.
5	Shigekazu FUJISAWA	Cost Estimation 1	Japan International Cooperation Agency(JICA) International Corporation Adviser

A2. Study Schedule

A2. Study Schedule

Study schedule for Outline Design Study is as follows;

(1) Field Survey

NO	Date	Remarks	Contents of activity						
			Yuji MARUO (Team leader)	Itsuro TAKAHASHI (Planning management)	Chief consultant/Water supply planning/Ground water development 1 Hiroshi FUJITA	Equipment planning 17 Technical assistance planning Yuji UNE	Cost estimation 1 Shigekazu FUJISAWA	Water distribution planning/ Design Takeshi YOSHIKAWA	Social survey/Environmental impact assessment Norikazu YAMAZAKI
1	12-Apr	Sun	Travelling: Haneda - Kansai - Dubai		Travelling: Narita - Bangkok - Dubai				
2	13-Apr	Mon	Travelling: Dubai - Addis Ababa Meeting with JICA Ethiopia Office						
3	14-Apr	Tue	Explanation of Policy to Embassy of Japan Discussion with Ministry of Water and Resources (MoWR) and Ministry of Finance and Economic Development (MofED)						
4	15-Apr	Wed	Discussion with Oromia Water Resources and MoWR Visit to Water purification equipment factory						
5	16-Apr	Thu	Visit to Water purification chemical factory Meeting with JICA Ethiopia office						
6	17-Apr	Fri	Document fillings			Travelling: Haneda - Kansai - Dubai			
7	18-Apr	Sat	Travelling: Addis Ababa - Butajira Visit to Water supply system extension site			Travelling: Dubai - Addis Ababa			
8	19-Apr	Sun	Travelling: Butajira - Awasa			Preparation for survey			
9	20-Apr	Mon	Discussion with SNNPR Water resources Discussion with SNNPR BoFED			Discussion with MoWR		Preparation for Local assignment work	Discussion with MoWR
10	21-Apr	Tue	Travelling: Awasa - Addis Ababa		Marketing research (Addis Ababa)	Discussion with Oromia WR (Addis Ababa)	Market research (Addis Ababa)	Data collection from EWTEC	Meeting with Local assignment
11	22-Apr	Wed	Travelling: Addis Ababa - Mekele Discussion with Tigray Water Resources Discussion with Tigray BoFED			Travelling: Addis Ababa - Mekele Discussion with Tigray Water Resources Discussion with Tigray BoFED		Market research (Addis Ababa)	Preparation for Local assignment work Travelling: Addis Ababa - Awasa
12	23-Apr	Thu	Travelling: Mekele - Addis Ababa Preparation for Pre-Committee		Marketing research (Addis Ababa)	Discussion with Tigray WR and WWCE	Market research (Addis Ababa)	Discussion with SNNPR WR Travelling: Awasa - Butajira Site Visit	Document fillings
13	24-Apr	Fri	Presenting Pre-Committee Discussion with MoWR					Visit to Meskan Wareda Site Visit	
14	25-Apr	Sat	Document fillings			Travelling: Mekele - Addis Ababa	Market research (Addis Ababa)	Visit to Mareko Wareda Site visit	Document fillings
15	26-Apr	Sun	Document fillings					Travelling: Butajira - Addis Ababa	
16	27-Apr	Mon	Discussion with MoWR Signing of M/D Visit EWTEC		Marketing research (Addis Ababa)	Discussion with MoWR	Market research (Addis Ababa)	Preparation for Local assignment work	Discussion with MoWR
17	28-Apr	Tue	Reporting to JICA Ethiopia office and Embassy of Japan Travelling: Addis Ababa - Dubai		Reporting to JICA Ethiopia office and Embassy of Japan	Discussion with Oromia WR		Signing of Local assignment work Travelling: Addis Ababa - Awasa	Document fillings
18	29-Apr	Wed	Travelling: Dubai - Kansai - Haneda		Marketing research (Addis Ababa)		Market research (Addis Ababa)	Discussion with SNNPR WR	
19	30-Apr	Thu							
20	1-May	Fri	Mayday		Document fillings		Market research (Addis Ababa)	Travelling: Awasa - Butajira Site survey	Document fillings
21	2-May	Sat							
22	3-May	Sun							
23	4-May	Mon	Travelling: Addis Ababa - Dubai				Market research (Addis Ababa)	Discussion with EEPCo Travelling: Butajira - Awasa	Discussion with Ministry of Health
24	5-May	Tue	Travelling: Dubai - Bangkok				Market research (Addis Ababa)	Document fillings	Data collection from other donor
25	6-May	Wed	Travelling Bangkok - Narita				Market research (Addis Ababa)		Travelling: Addis Ababa - Awasa
26	7-May	Thu					Visit Potable water purification plant	Discussion with SNNPR WR	Social condition survey for SNNPR
27	8-May	Fri					Market research (Addis Ababa)		
28	9-May	Sat					Document fillings		Travelling: Awasa - Addis Ababa
29	10-May	Sun					Document fillings		Social condition survey for SNNPR
30	11-May	Mon					Discussion with Oromia WR	Discussion with MoWR	Social condition survey for SNNPR
31	12-May	Tue					Market research (Addis abeba)	Document fillings	Discussion with MoWR
32	13-May	Wed							
33	14-May	Thu							
34	15-May	Fri							
35	16-May	Sat							
36	17-May	Sun							
37	18-May	Mon							
38	19-May	Tue							
39	20-May	Wed							
40	21-May	Thu							

(2) Explanation of Draft Outline Study Report

NO	Date		Remarks	Contents of activity		
				Yuji MARUO (Team leader)	Itsuro TAKAHASHI (Planning management)	Chief consultant /Water supply planning/Ground water development 1 Hiroshi FUJITA
7	18-Apr	Sat		Travelling: Haneda - Kansai - Dubai		
8	19-Apr	Sun		Travelling: Dubai - Addis Ababa		
9	20-Apr	Mon		Coutesty call to MoWR Meeting with JICA Ethiopia office Internal meeting		
10	21-Apr	Tue		Explanation of Draft Outline Design Report to MoWR		
11	22-Apr	Wed		Presenting Committee		
12	23-Apr	Thu		Discussion for Contents of Minute		
13	24-Apr	Fri		Signing of M/D Travelling: Addis Ababa - Dubai		
14	25-Apr	Sat		Travelling: Dubai - Kansai - Haneda		

A3. List of Parties Concerned in the Recipient Country

A3. List of Parties Concerned in the Recipient County

(1) Ethiopian side

- ◆ Ministry of Finance and Economic Development
 - Director, Bilateral Cooperation Department Mr. Tilahun Tadesse
 - Team Leader Ms. Asnagach Teferra

- ◆ Ministry of Water and Resources
 - Chief Engineer Mr. Abera Mekonnen
 - Head of EWTEC Mr. Markos Tefera
 - Head, Emergency Water Supply Unit Mr. Abebe Gulelat

- ◆ Oromia Water Resource Bureau
 - Deputy Head Mr. Kabede Gerba
 - Water Treatment Expert Mr. Ayana Kelbessa
 - Hydrogeologist Mr. Fekadu Lebecha
 - WASH Coordinator Mr. Lemmessa Makonta
 - Water Supply Engineer Mr. Tesmamaw W/Giyorgis
 - Senior Mechanic Mr. Tesfaye Ovira

- ◆ SNNPR Water Resource Department Bureau
 - Bureau Head Mr. Mitiku Bedru Gochefo
 - Head of Water Supply and Sanitation Department Mr. Nuledyn Asaro
 - Acting Head of Water Supply and Sanitation Department Mr. Solomon Mugoro
 - Water Supply and Sanitation Department Mr. Solomon Shumbulo
 - Head of Water Resources Department Mr. Eyasu
 - Acting Head of Water Supply and Sanitation Department Mr. Solomon Mugoro
 - Owner of Human Resources Administration Support Process Mr. Teku
 - Owner of Finance Purchase material Administration Support Process Mr. Dinku
 - Owner of Development Plan Preparation, Monitoring and Evaluation Support Process
 - Mr. Abdulkivm
 - Acting Head of Operation & Maintenance Mr. Adane Temesgen
 - Team leader of Water Quality team Mr. Temesgen Mathewos
 - WASH Coordinator at WRDB, SNNPR Mr. Teketel Mathewos

- ◆ SNNPR Water Works Construction Enterprise
 - General Manager Mr. Tadele Kibru

- ◆ Bureau of Financial and Economic Development
Department of Statistics Mr. Demelash Deriba

- ◆ Wareda in SNNPR
Head of Meskan Woreda Water Resources Development office Mr. Awol Hamza
Head of Mareko Woreda Water Resources Development office Mr. Fanthun Mitiku

- ◆ International Rescuer Committee Awasa Field Office
Field Coordinator Mr. Zeleke Bacha

- ◆ SNNPR Bureau of Finance and Economic Development
Bureau Head Mr. Bargudie Banacha

- ◆ Tigray Water Resource, Mines and Energy Bureau
Bureau Head Mr. Michael Tsemaya
Deputy Bureau Head Mr. Solomon Abera
Support Process Owner, Development Planning Mr. Haile Kidane

- ◆ Tigray Bureau of Finance and Economic Development
Process Owner, Development Planning Core Process Mr. Yemane Yosief Tesfay

- ◆ Tigray Water Supply and Construction Enterprise
General Manager Mr. Getachew Girmay Asgedom
Head of Technic & Maintenance Dept. Mr. Gebre Marion Teklu

- ◆ EWTEC (Ethiopia Water Technology Centre)
EWTEC Coordinator Mr. Mulgeta Kinfu

- ◆ Amhara Water Resource Development Bureau
Water Supply Core Process Owner Mr. Gizachew
Coordinator for UNDAF Supports Mr. Getenet Kassahun
Spare parts storeman of Central Workshop Mr. Getachew Teklu
Auto Mechanics of Central Workshop Mr. Sirak Tsige

- ◆ Afar Water Resource Bureau, Planning Department
Department Head Mr. Zahara Mohamed

- ◆ Afar Water Resource Bureau, Planning Department
Department Head Dr. Sultan

(2) Japanese side

◆ Embassy of Japan in Ethiopia

Kinnichi KOMANO	Ambassador
Yoshinori KITAMURA	First Secretary
Naoki MASUDA	Second Secretary

◆ JICA Ethiopia office

Katsuhiro SASAKI	Representative
Shinnichiro FUTAMI	Assistant Resident Representative
Momoko SUZUKI	Assistant Resident Representative

◆ The Water Sector Capacity Development Project in SNNPR

Tetsuji NIWANO	Team leader
Kiichi MACHIDA	Expert

◆ Japan Overseas Cooperation Volunteer (JOCV)

Shinnichiro TSUNODA	Member	
	Occupation:	Water resource development
	Post:	SNNPR Water Resource Department Bureau
Naomi KOJIMA	Member	
	Occupation:	Civil
	Post:	SNNPR Water Resource Department Bureau
Shoko SUZUKI	Member	
	Occupation:	Rural development adviser
	Post:	SNNPR Water Resource Department Bureau

◆ Technical cooperation “Ethiopia water technology centre” Phase 3

Akira KAMATA	Team leader
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A4. Minute of Discussions (M/D)

A4. Minute of Discussions (M/D)

- (1) Minute of Discussions on April 27, 2009

ATTACHMENT

1. Title of the Programme

The Title of the Programme has been changed as follows;

- Initial Title in the Original Proposal : Emergency Water Supply Intervention in Ethiopia
- New Title: The Programme for Emergency Water Supply for Addressing Climate Change in the Federal Democratic Republic of Ethiopia.

2. Objective of the Survey

The objective of the Survey is to evaluate the appropriateness and sustainability of the equipment to be procured and confirm specification and quantity of requested items within agreed amount of the Grant on Exchange of Notes (hereinafter referred to as "E/N") dated on 23rd April, 2009 and Grant Agreement (hereinafter referred to as G/A) No.0868690 dated on 23rd April, 2009. The Survey also prepares the outline design and estimate the cost of the Programme.

3. Items requested by the Government of Ethiopia

After discussions with the Team, the items described in **Annex I** were finally requested by the Ethiopian side. JICA will assess the appropriateness of the requested items and will consult with the Government of Japan for confirmation. The result of assessment and consultation will be informed to the Ethiopian side at the time of explanation on the Report. The Ethiopian side understood that in case some equipment may not be procured if the Programme cost exceeds the upper limit of amount agreed on E/N.

4. Responsible Agency and Implementing Agency

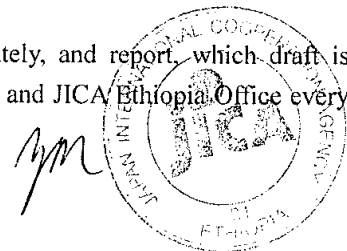
- 4-1 The Responsible Agency is the Ministry of Water Resources (hereinafter referred to as "MoWR").
- 4-2 The Implementing Agencies are Water Resource Bureaus in Tigray Region, Oromia Region, Southern Nations, Nationalities and Peoples Region, Afar Region, Somali Region and Amhara Region (hereinafter referred to as "Regional Governments").
- 4-3 The Organization charts of Responsible Agency and Implementing Agencies are shown in **Annex II**.
- 4-4 Roles and Responsibilities of both Agencies are stipulated as follows;
- (1) MoWR, as the owner of procured equipment, is responsible for sustainable usage of all equipment which will be allocated to each Regional;
 - (2) Regional Governments will bear operational and maintenance cost and provide necessary space and facilities to accommodate the equipment, and also allocate appropriate personnel for proper operation ;

Regional Governments will use the equipment appropriately, and report, which draft is shown in ANNEX IX, X and XI, its conditions to MoWR and JICA Ethiopia Office every



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year for the period of five (5) years;

- (4) MoWR and Regional Governments will exchange the Letter of Consent to confirm above mentioned (1), (2) and (3); and
- (5) Submission of the Letter of Consent mentioned above (4) is prerequisite for procurement of the equipment

5. Scheme of Japan's Programme Grant Aid for Environment and Climate Change

- 5-1 The Ethiopian side understood the scheme of Japan's Programme Grant Aid for Environment and Climate Change explained by the Team as described in **Annex III** and **Annex IV**. The Team explained that the Programme is slightly different from explanation made in Annex III and IV due to urgent needs identified. The Team also explained that the details of the scheme are under scrutiny process and might be slightly modified.
- 5-2 The Ethiopian side will take necessary measures as described in **Annex V** and Article 10 of the G/A to expedite smooth implementation of the Programme.

6. The Programme Cost

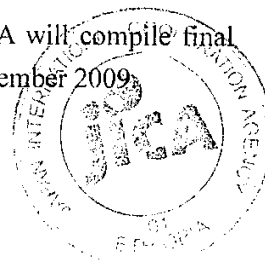
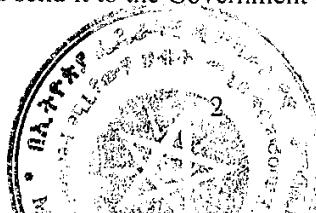
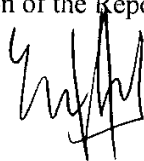
Both sides agreed that the Programme cost will be finally decided within the upper limit of the amount which is agreed by both sides on E/N. The Team explained and the Ethiopian side understood that the Programme cost includes the cost for internal transportation upto the respective regional water bureaus, bank transfer charge required for procurement of equipment (illustrated No.16 Payment in **Annex IV**), soft component, technical assistance and Procurement Management Agent fee in addition to the equipment cost.

7. Administration of the Programme

- 7-1 Both sides confirmed the organisational framework for implementation of the Programme as shown in **Annex VI**.
- 7-2 In connection with Article 11 of the G/A, both sides confirmed that the Consultative Committee of the Programme (hereinafter referred to as "the Committee") would be established for promoting proper and smooth execution of the Programme. Functions and composition of the Committee are described in **Annex VII**.

8. Schedule of the Survey

- 8-1 The consultant members of the Team (hereinafter referred to as "the Consultant") will proceed to further studies in Ethiopia by May 15th, 2009.
- 8-2 JICA will compile the Report and dispatch a mission around the end of June 2009 in order to explain its contents to the Ethiopian side.
- 8-3 After Government of Ethiopia accept the contents of the Report, JICA will compile final edition of the Report and send it to the Government of Ethiopia by September 2009.



9. Other relevant issues

9-1 Schedule of Procurement

The Ethiopian side has understood that tendering for procurement will be done by September. Supplementary tenders will be done if there is any remaining fund of the Programme according to the result of the first tendering. In principle, all equipment will be procured by the end of March 2010, however the schedule of procurement will be extended depending on the time of deliver of each item.

9-2 Bank Transfer Charges

The Ethiopian side agreed to bear bank transfer charge which arises when the Programme Funds is transferred from the bank account owned by the Ethiopian side in Japan to the bank account for Procurement Agent as illustrated in **Annex IV** under No. 8 "Transfer of Funds" and in **Annex V** under No. 1 "Payment Commission". However, the Team explained that the Programme will bear the bank transfer charges which arise when the Procurement Agent makes payment to the suppliers of equipment and services after its delivery.

9-3 Programme Site

The sites of the Programme are in Tigray Region, Oromia Region, Southern Nations, Nationalities and Peoples Region, Afar Region, Somali Region and Amhara Region as shown in **Annex VIII**. Items such as water purifiers and plastic tanks may be provided to other Regions if urgent needs are identified.

9-4 Technical assistance (Soft Component and Technical Cooperation)

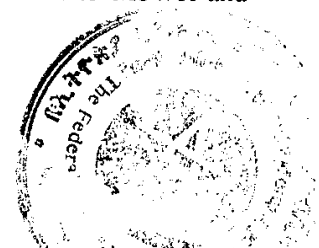
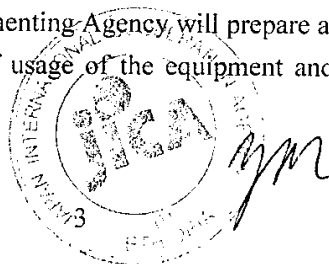
The Ethiopian side understood that the technical assistance, such as soft component and technical cooperation programme, will be provided to assist effective operation and maintenance of the procured equipment, when required.

9-5 Construction of Facilities

Both sides agreed that construction of facilities such as borehole, water supply facilities and so on will not be included in the components of the Programme.

9-6 Operation and Maintenance of the Items

The Ethiopian side agreed to take necessary measures and allocate necessary budget in order to operate and maintain the equipment procured by the Programme. The Team explained to the Ethiopian side that it is necessary to monitor the situation of the procured equipment. The Ethiopian side accepted that each Implementing Agency will prepare an Annual Report, shown in **Annex XII**, concerning the situation of usage of the equipment and submit it to MoWR and JICA Ethiopia Office.



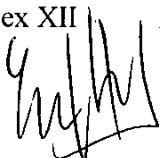
9-7 Tax Payment

In connection with Article 6 (c) of the E/N, the taxes including Value Added Tax (VAT), custom duty, and any other taxes and fiscal levies in Ethiopia arisen from the Programme will be borne by the Ethiopian side.

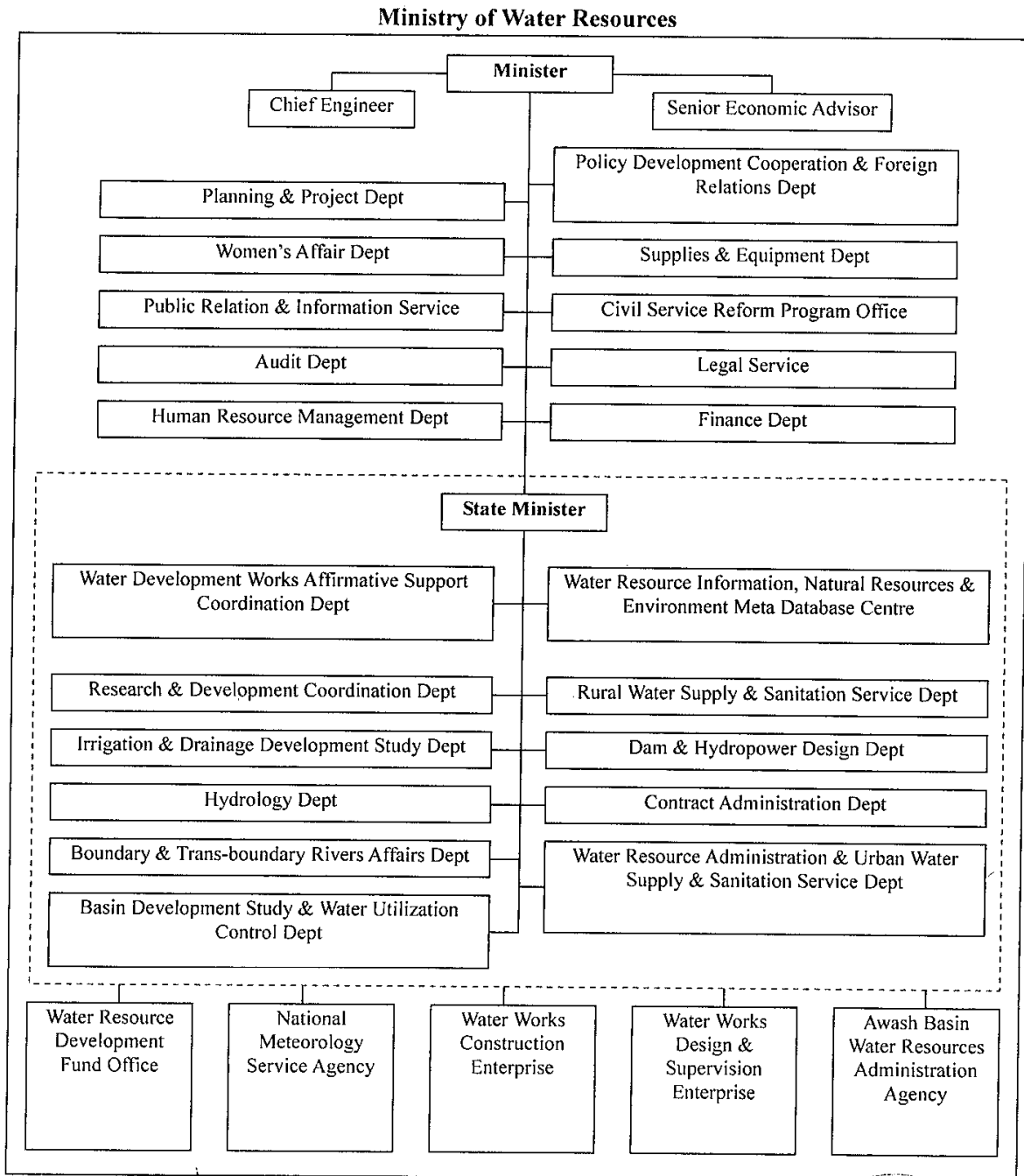
9-8 Environmental and Social Consideration

Both sides confirmed that the Ethiopian side is responsible for taking any measures to complete Environmental Impact Assessment if necessary according to the relevant laws of the Ethiopia and/or the Outline Design Study indicates necessity of Environmental Impact Assessment to implement the Programme.

- Annex I List of Requested Equipment
- Annex II Organization Chart of Responsible Agency and Implementation Agencies
- Annex III Japan's Programme Grant Aid for Environment and Climate Change Scheme
- Annex IV Flow of Funds and Implementation of the Programme
- Annex V Major Undertakings to be taken by Each Government (Equipment)
- Annex VI Organizational Framework for the Implementation of the Programme
- Annex VII Consultative Committee
- Annex VIII Programme Sites Map
- Annex IX Draft Monitoring Sheet 1 (Drilling Rig)
- Annex X Draft Monitoring Sheet 2 (Vehicle)
- Annex XI Draft Monitoring Sheet 3 (Equipment)
- Annex XII Draft Annual Record Format



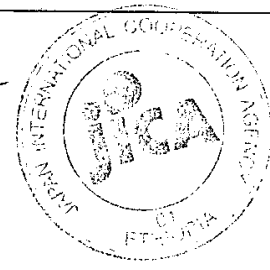
Organization Chart of Responsible and Implementing Agencies



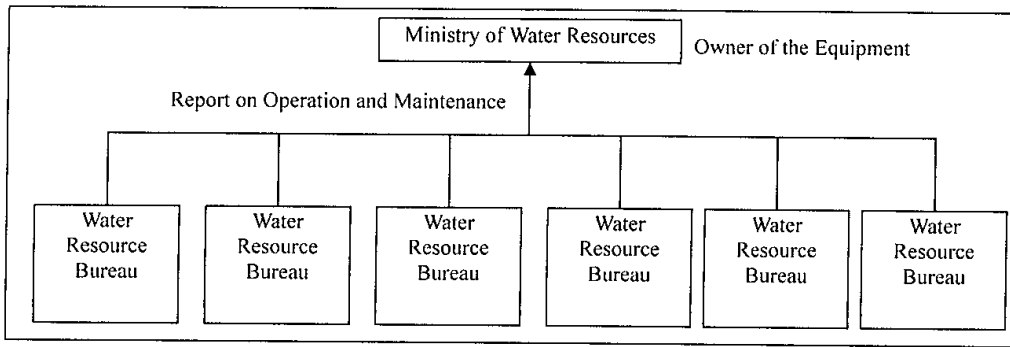
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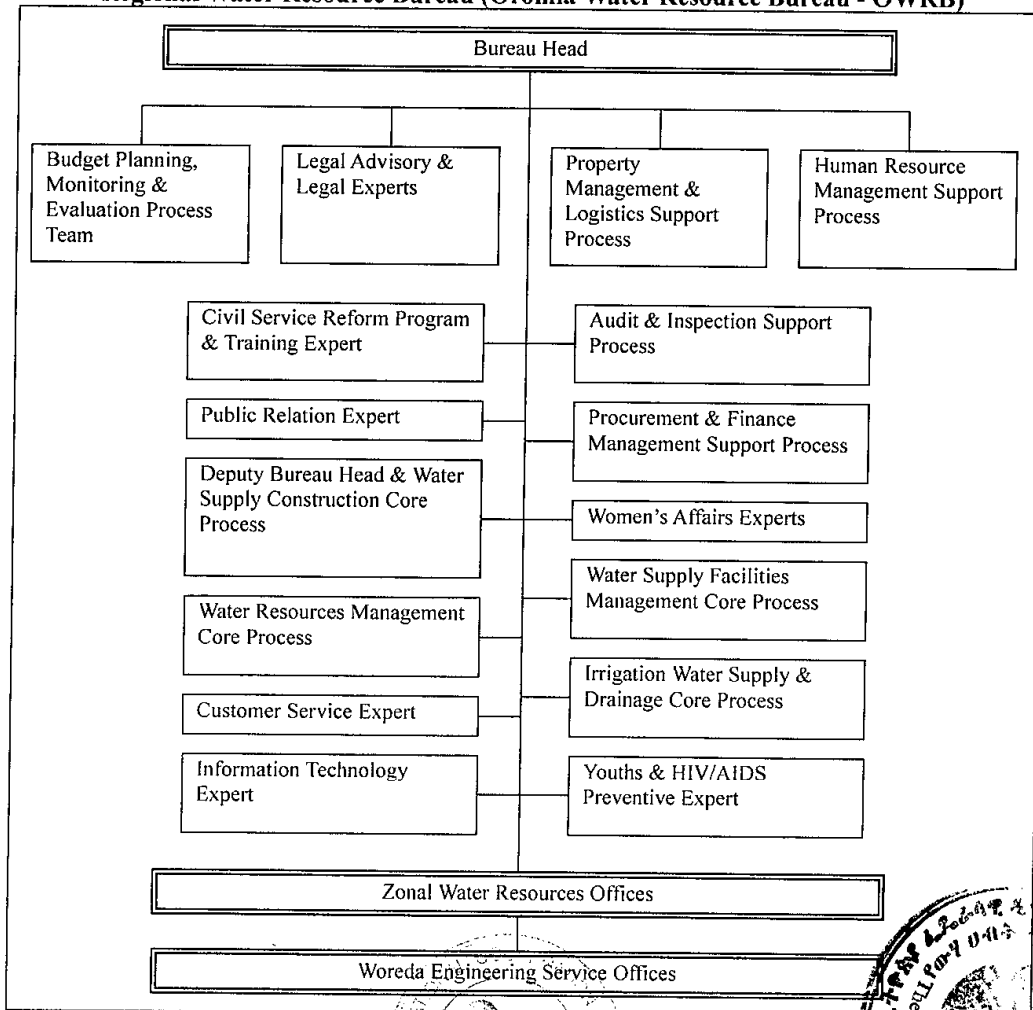
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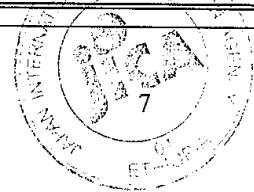
Ministry of Water Resources and Regional Water Resource Bureau



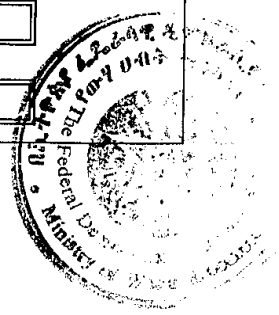
Regional Water Resource Bureau (Oromia Water Resource Bureau - OWRB)



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Programme Grant Aid for Environment and Climate Change
of the Government of Japan
 (Provisional)

The Government of Japan (hereinafter referred to as "the GOJ") is implementing the organizational reforms to improve the quality of ODA operations, and as a part of this realignment, the new JICA law was entered into effect on October 1, 2008. Based on the law and the decision of GOJ, Japan International Cooperation Agency (hereinafter referred to as "JICA") has become the executing agency of the Programme Grant Aid for Environment and Climate Change (hereinafter referred to as "GAEC").

The Grant Aid provides a recipient country (hereinafter referred to as "the Recipient") 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. The Grant Aid is not supplied through the donation of materials as such.

GAEC aims toward emission reduction such as achievement of energy saving (environmental-easing measures) and environmental damage control by climate change. Multiple components can be combined to effectively meet the needs. Contractors, suppliers or consultants are not confined to Japanese firms only, and construction can be done based on the local method.

1. Procedures for GAEC

GAEC is executed through the following procedures.

- Application (Request made by the Recipient)
 - Study (Outline Design Study conducted by JICA)
 - Appraisal & Approval (Appraisal by GOJ and Approval by the Cabinet)
 - Determination of (The Notes exchanged between the GOJ and the Recipient)
 - Implementation
 - Grant Agreement (Agreement concluded between JICA and the Recipient)
- (hereinafter referred to as "the G/A")

Firstly, the application or request for a GAEC programme submitted by the Recipient is examined by GOJ (the Ministry of Foreign Affairs) to determine whether or not it is eligible for GAEC.

Secondly, if the request is deemed appropriate, JICA conducts the Outline Design Study, using Japanese consulting firms.

Thirdly, GOJ appraises the programme to see whether or not it is suitable for Japan's GAEC, based on the Outline Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

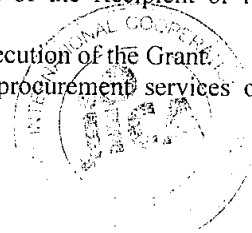
Fourthly, the programme, once approved by the Cabinet, becomes official with the Exchange of Notes (E/N) signed by GOJ and the Recipient. Simultaneously, the Grant will be made available by concluding a grant agreement between the Government of the Recipient or its designated authority and JICA (hereinafter referred to as "the G/A").

JICA is designated by GOJ as an organization responsible for the execution of the Grant. Procurement Agent ("the Agent") is designated to conduct the procurement services of



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products and services (including fund management, preparing tenders, contracts and so on) for GAEC on behalf of the Recipient. The Agent is an impartial and specialized organization and shall render services according to the Agent Agreement with the Recipient. The Agent is recommended to the Recipient by GOJ and agreed between the two Governments in the Agreed Minutes ("A/M").

2. Outline Design Study

1) Contents of the Study

The aim of the Outline Design Study ("the Study"), conducted by JICA on a requested programme ("the Programme"), is to provide a basic document necessary for the appraisal of the Programme by GOJ. The contents of the Study are as follows:

- (1) Confirmation of the background, objectives, and benefits of the Programme and also institutional capacity of agencies and communities concerned of the Recipient country necessary for the Programme's implementation.
- (2) Evaluation of the appropriateness of the Programme to be implemented under the Grant Aid Scheme for Environment and Climate Change from a technical, social and economic point of view;
- (3) Confirmation of items agreed upon by both parties concerning the basic concept of the Programme.
- (4) Preparation of an outline design of the Programme.
- (5) Estimation of cost for the Programme.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid programme. The Outline Design of the Programme is confirmed considering the guidelines of Japan's Grant Aid scheme.

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

2) Selection of Consultants

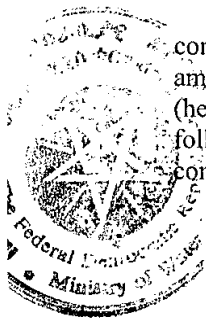
For smooth implementation of the Study, JICA uses registered consulting firms. JICA selects firms based on proposals submitted by interested firms. The firms selected carry out an Outline Design Study and write a report, based upon terms of reference set by JICA.

The consulting firms to work on the Programme's implementation after the Exchange of Notes could be, in principle, of any nationality as long as the Firm satisfies the conditions specified in the tender documents.

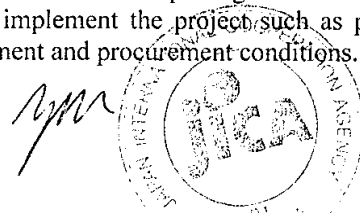
3. Implementation of GAEC after the E/N

1) Exchange of Notes (E/N) and Grant Agreement (G/A)

GAEC is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the programme, period of execution, conditions and amount of the Grant Aid, etc., are confirmed. The conclusion of the Grant Agreement (hereinafter referred to as "the G/A") between JICA and the recipient government will be followed to define the necessary engagement to implement the project, such as payment conditions, responsibilities of the recipient government and procurement conditions.



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2) Procedural details

Procedural details on the procurement of products and services under GAEC will be agreed upon between the Recipient and JICA at the time of the signing of the E/N and G/A.

Essential points to be agreed upon are outlined as follows:

- a) JICA is in a position to expedite the proper execution of the program.
- b) The products and services shall be procured and provided in accordance with "Procurement Guidelines for Environment and Climate Change of JICA.
- c) The Recipient shall conclude an employment contract with the Agent.
- d) The Agent is the representative acting in the name of the Recipient concerning all transfers of funds to the Agent.

3) Focal Points of "The Procurement Guidelines of Japan's (Type I - E) Grant Aid for Environment and Climate Change"

a) The Agent

The Agent is the organization which provides procurement services of products and services on behalf of the Recipient according to the Agent Agreement with the Recipient. The Agent is recommended to the Recipient by GOJ and agreed between the two Governments in the A/M.

b) Agent Agreement

The Recipient shall conclude an Agent Agreement, within one month after the date of entry into force of the E/N and the G/A, in accordance with the A/M. The scope of the Agent's services shall be clearly specified in the Agent Agreement.

c) Approval of the Agent Agreement

The Agent Agreement, which is prepared as two identical documents, shall be submitted to JICA by the Recipient through the Agent. JICA confirms whether or not the Agent Agreement is concluded in conformity with the G/A and the Procurement Guidelines for Disaster Reconstruction Grant Aid, and approves the Agreement.

The Agent Agreement concluded between the Recipient and the Agent shall become effective after the approval by JICA in a written form.

d) Payment Methods

The Agent Agreement shall stipulate that "regarding all transfers of the fund to the Agent, the Recipient shall designate the Agent to act on behalf of the Recipient and issue a Blanket Disbursement Authorization ("the BDA") to conduct the transfer of the fund (Advances) to the Procurement Account from the Recipient Account."

The Agent Agreement shall clearly state that the payment to the Agent shall be made in Japanese yen from the Advances and that the final payment to the Agent shall be made when the total Remaining Amount becomes less than 3 % of the Grant and its accrued interest.

e) Products and Services Eligible for Procurement

Products and services to be procured shall be selected from those defined in the G/A.

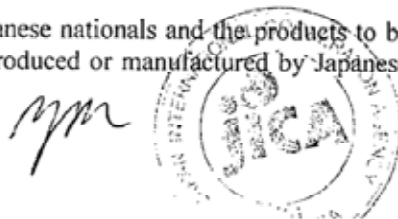
f) Firms

In principle, a firm of any nationality could be contracted as long as the Firm satisfies the conditions specified in the tender documents.

The Firm, with approval by JICA, may be Japanese nationals and the products to be procured may be the products made in Japan or produced or manufactured by Japanese



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manufacturer(s) and/or its (their) affiliate(s) in any country.

g) Experts for Technical Assistance

Expert(s) could be deployed to carry out technical assistance. The expert(s) may be recommended by JICA when the conceptual consistency with the Studies is required. In principle, expert(s) is/are preferable to be Japanese nationals if appropriate.

h) Method of Procurement

In implementing procurement, sufficient attention shall be paid so that there is no unfairness among tenderers who are eligible for the procurement of products and services.

For this purpose, competitive tendering shall be employed in principle.

i) Tender Documents

The tender documents should contain all information necessary to enable tenderers to prepare valid offers for the products and services to be procured by GAEC.

The rights and obligations of the Recipient, the Agent and the Suppliers of the products and services should be stipulated in the tender documents to be prepared by the Agent. Besides this, the tender documents shall be prepared in consultation with the Recipient.

j) Pre-qualification Examination of Tenderers

The Agent may conduct a pre-qualification examination of tenderers in advance of the tender so that the invitation to the tender can be extended only to eligible firms. The pre-qualification examination should be performed only with respect to whether or not the prospective tenderers have the capability of accomplishing the contracts concerned without fail. In this case, the following points should be taken into consideration:

- (1) Experience and past performance in contracts of a similar kind
- (2) Property foundation or financial credibility
- (3) Existence of offices, etc. to be specified in the tender documents.

k) Tender Evaluation

The tender evaluation should be implemented on the basis of the conditions specified in the tender documents.

Those tenders which substantially conform to the technical specifications, and are responsive to other stipulations of the tender documents, shall be judged in principle on the basis of the submitted price, and the tenderer who offers the lowest price shall be designated as the successful tenderer.

The Agent shall prepare a detailed tender evaluation report clarifying the reasons for the successful tender and the disqualification and submit it to the Recipient to obtain confirmation before concluding the contract with the successful tenderer.

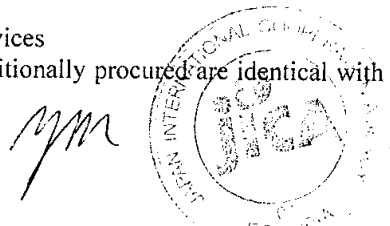
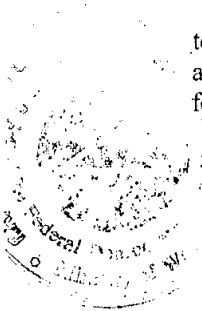
The Agent shall furnish JICA with a detailed evaluation report of tenders, giving the reasons for the acceptance or rejection of tenders.

l) Additional Procurement

If there is an additional procurement fund after competitive and / or selective tendering and / or direct negotiation for a contract, and the Recipient would like an additional procurement, the Agent is allowed to conduct an additional procurement, following the points mentioned below:

- (1) Procurement of the same products and services

When the products and services to be additionally procured are identical with the



initial tender and a competitive tendering is judged to be disadvantageous, the additional procurement can be implemented by a direct contract with the successful tenderer of the initial tender.

(2) Other procurements

When products and services other than those mentioned above in (1) are to be procured, the procurement should be implemented through a competitive tendering. In this case, the products and services for additional procurement shall be selected from among those in accordance with the G/A.

m) Conclusion of the Contracts

In order to procure products and services in accordance with the G/A, the Agent shall conclude contracts with firms selected by tendering or other methods.

n) Terms of Payment

The contract shall clearly state the terms of payment. The Agent shall make payment from the "Advances", against the submission of the necessary documents from the Firm on the basis of the conditions specified in the contract, after the obligations of the Firm have been fulfilled. When the services are the object of procurement, the Agent may pay certain portion of the contract amount in advance to the firms on the conditions that such firms submit the advance payment guarantee worth the amount of the advance payment to the Agent.

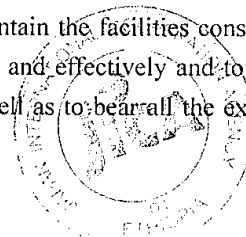
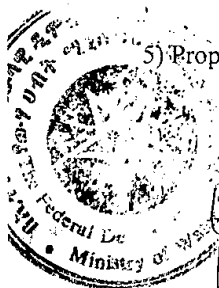
4) Undertakings required to the Government of the Recipient country

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

- a) To secure land necessary for the sites of the Programme and to clear, level and reclaim the land prior to commencement of the Programme,
- b) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,
- c) To secure buildings prior to the procurement in case the installation of the equipment,
- d) To ensure all the expense and prompt execution for unloading and customs clearance at the port of disembarkation of the products purchased under the Grant Aid,
- e) To exempt all the concerned parties 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 contracts,
- f) To accord all the concerned parties, whose services may be required in connection with supply of the products and services under the contracts, such facilities as may be necessary for their entry into the Recipient country and stay therein for the performance of their work.

5) Proper Use

The Recipient country is required to operate and maintain the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses



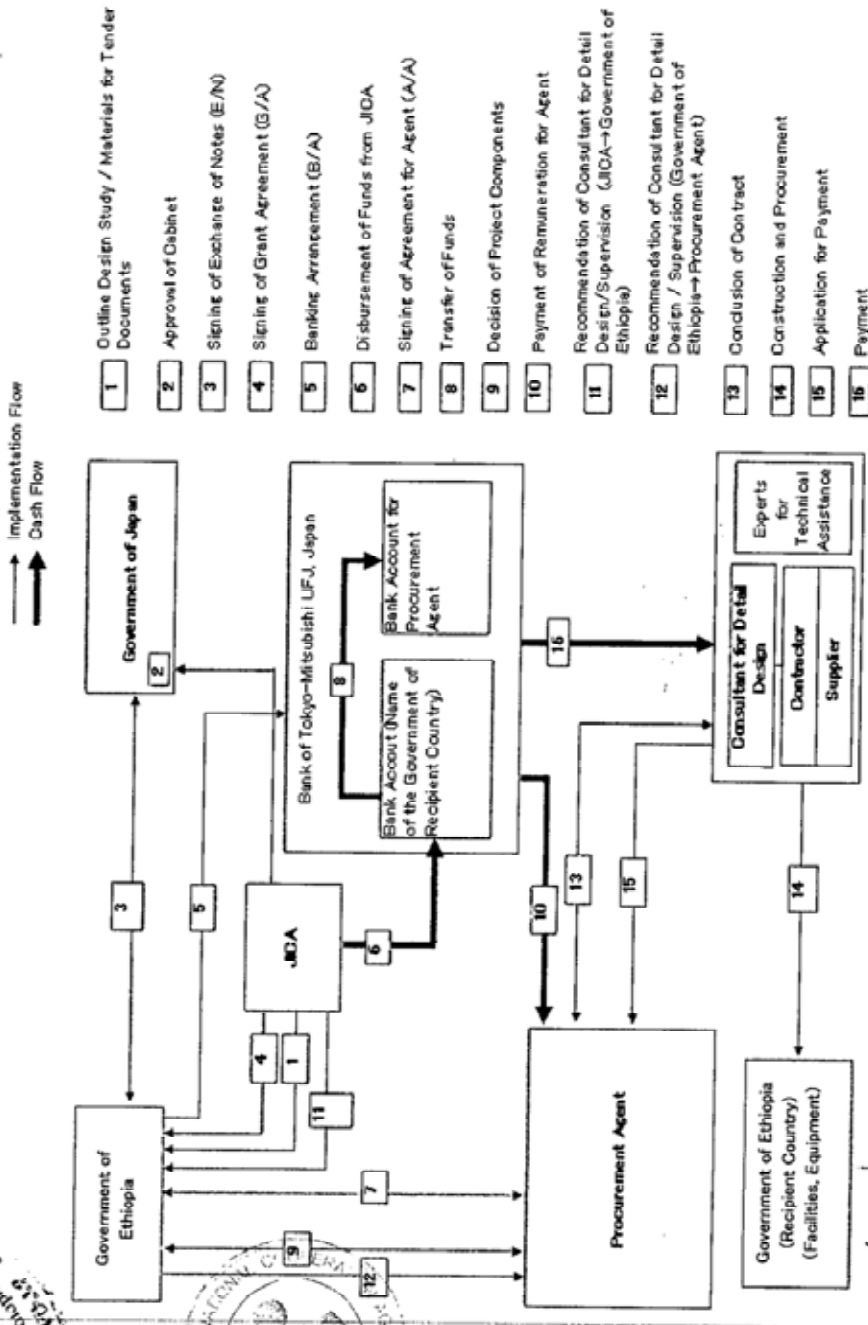
other than those covered by the Grant Aid.

6) Re-export

The products purchased under the Grant Aid should not be re-exported from the Recipient country.



Annex IV
 FLOW OF FUNDS FOR IMPLEMENTATION UNDER THE JAPAN'S GRANT AID FOR ENVIRONMENT AND CLIMATE CHANGE



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Annex V

Major Undertakings to be taken by Each Government (Equipment)

NO	Items	To be covered by the Grant	To be covered by Recipient side
1	To bear the following commissions to a bank of Japan for the banking services based upon the B/A		
	Payment commission		•
2	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country		
	1) Marine(Air) transportation of the products from Japan to the recipient country	•	
	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	(•)	(•)
3	To accord all concerned parties whose services may be required in connection with the supply of the products and the services under the approved contract 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 or bear of all concerned parties 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 approved contract		•
5	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant		•
6	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, N/A: Not Applicable)

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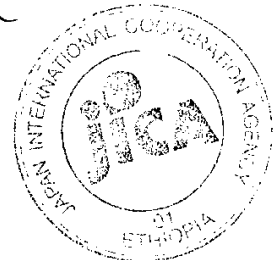
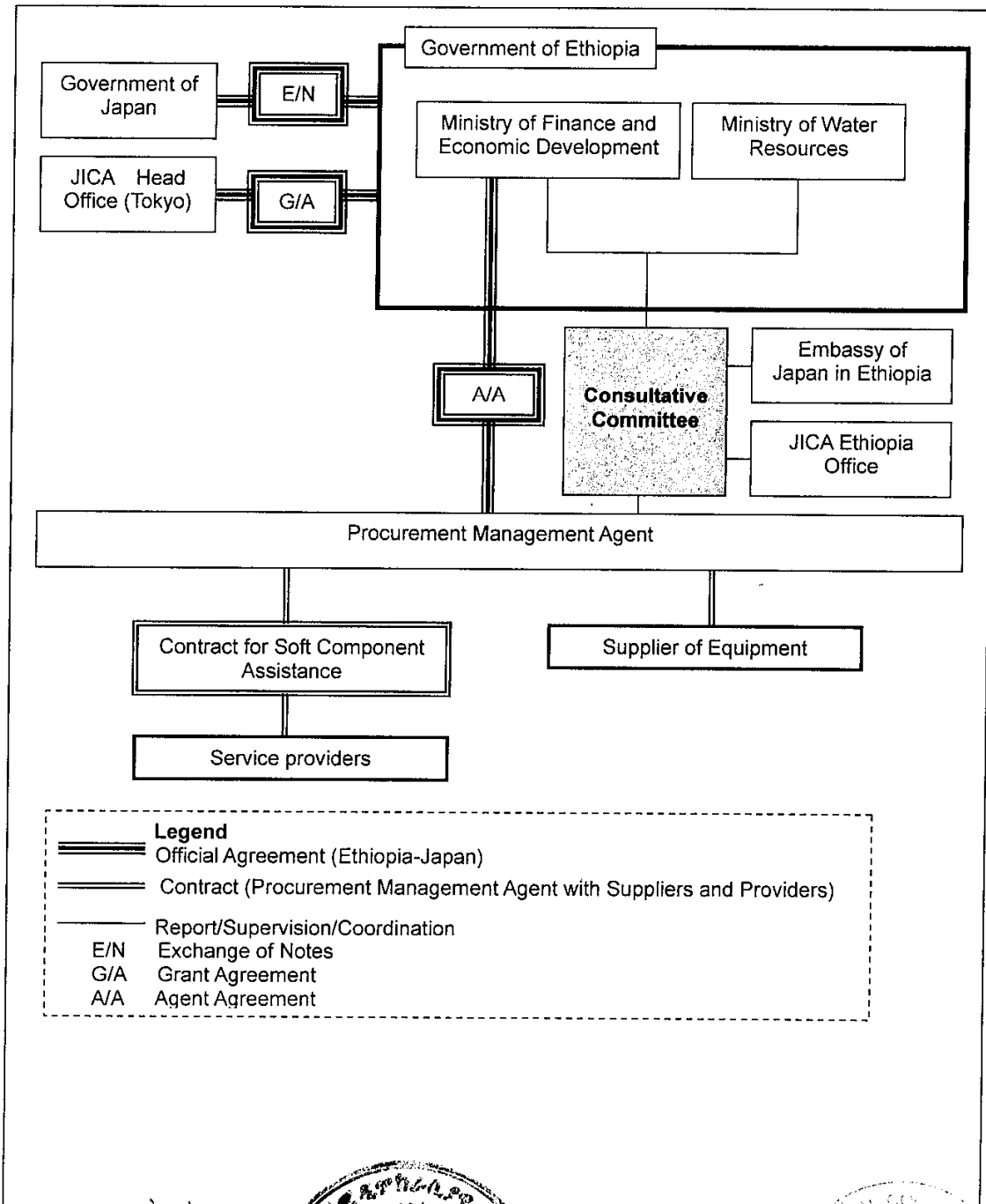
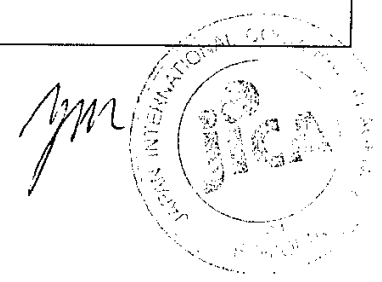


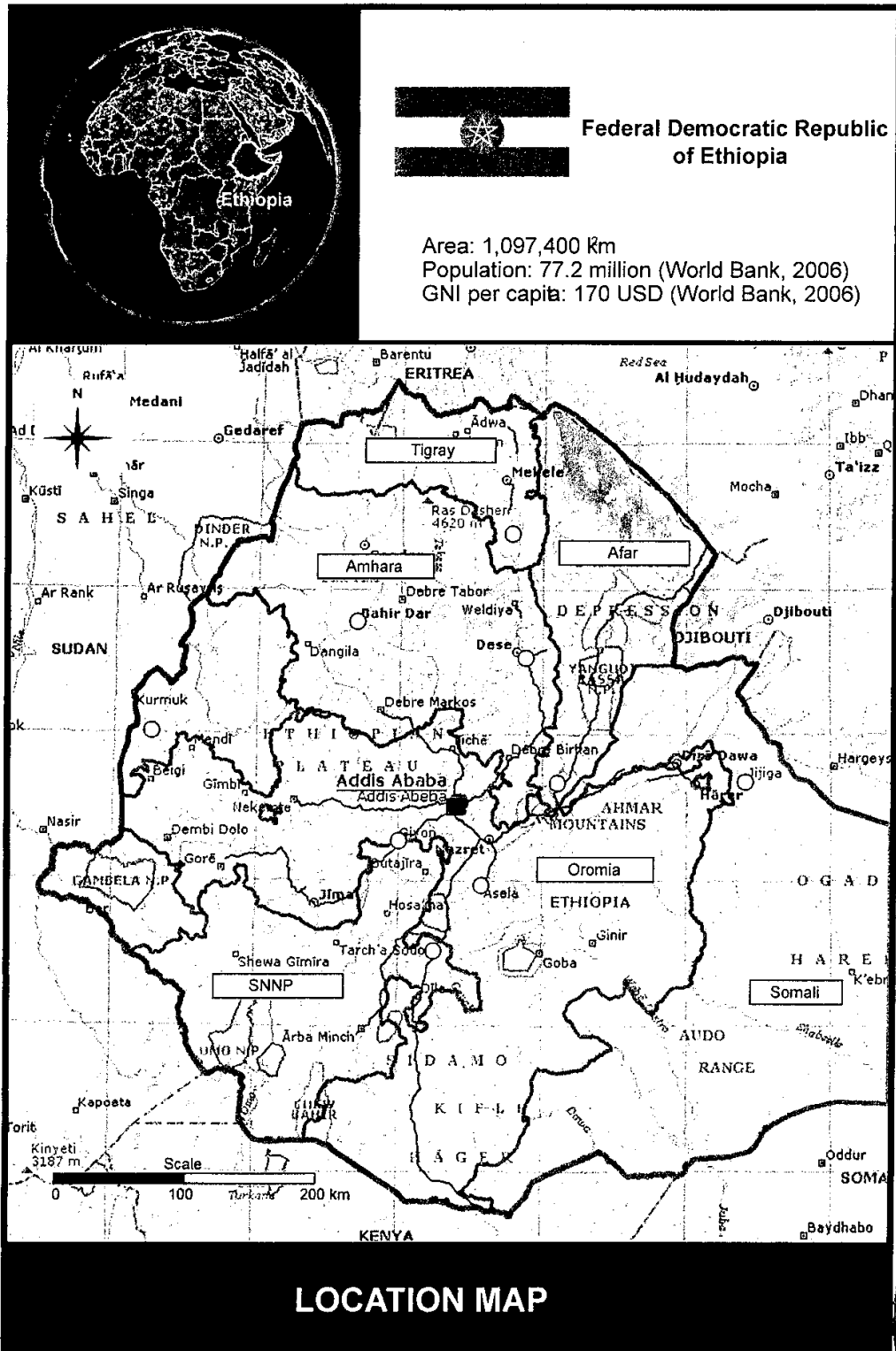
Chart of the Programme Implementation Organization under the Japan's Grant Aid for Environment and Climate Change in Ethiopia



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Programme Sites Map



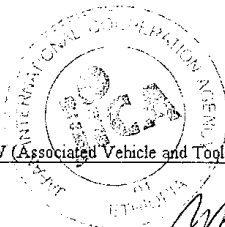
DRILLING RIG OPERATION AND MAINTENANCE RECORD (For Photo Frame)

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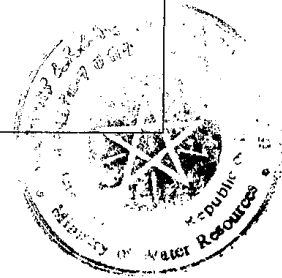
OBLIQUE VIEW (Drilling rig)
OBLIQUE VIEW (Associated Vehicle and Tools)

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VEHICLE OPERATION AND MAINTENANCE RECORD (For Photo Frame)

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OBLIQUE FRONT VIEW

OBLIQUE REAR VIEW

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EQUIPMENT OPERATION AND MAINTENANCE RECORD (For Photo Frame)

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Month



OBLIQUE FRONT VIEW



OBLIQUE REAR VIEW

24



(2) Minute of Discussions on July 24, 2009

**MINUTES OF DISCUSSIONS
ON
THE OUTLINE DESIGN
ON
THE PROGRAMME FOR EMERGENCY WATER SUPPLY
FOR ADDRESSING CLIMATE CHANGE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA**

(Explanation on Draft Final Report)

In April 2009, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Preparatory Survey Team on the Programme for Emergency Water Supply for Addressing Climate Change (hereinafter referred to as "the Programme") in the Federal Democratic Republic of Ethiopia (hereinafter referred to as "Ethiopia"), and through discussions, field survey and technical examination of the results of the survey in Japan, JICA prepared a Draft Final Report of the Outline Design.

In order to explain and to consult with the concerned officials of the Government of Ethiopia on the component of the Draft Final Report, JICA sent Ethiopia the Draft Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Dr. Yuji Maruo, Senior Advisor, JICA, from 20th July 2009 to 24th July, 2009.

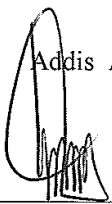
As a result of discussion, both sides confirmed the main items described on the attached sheets.


Addis Ababa, 23rd July, 2009

若尾祐治

Dr. Yuji Maruo
Leader
The Preparatory Survey Team
Japan International Cooperation Agency
Japan




Ato. Asfaw Dingamo
Minister
The Ministry of Water Resources
Federal Democratic Republic of Ethiopia



ATTACHMENT

1. Components of the Draft Report

The Ministry of Water Resources (hereinafter referred to as “the MoWR”) agreed and accepted in principle the components of the Draft Final Report explained by the Team.

2. Japan’s Programme Grant Aid for Environment and Climate Change

The MoWR understood the Programme, and would take the necessary measures for smooth implementation of the Programme, as agreed in Exchange of Notes (hereinafter referred to as “E/N”) and Grant Agreement (hereinafter referred to as “G/A”) both signed on 23rd April, 2009, and Minutes of Discussions signed by both sides on 27th April, 2009 (hereinafter referred to as “the previous M/D”). The previous M/D is attached to the Draft Final Report of the Outline Design of the Programme.

3. Schedule of the Study

JICA will complete the final report in accordance with the confirmed items and send it to the MoWR by the middle of September, 2009.

4. Other Relevant Issues

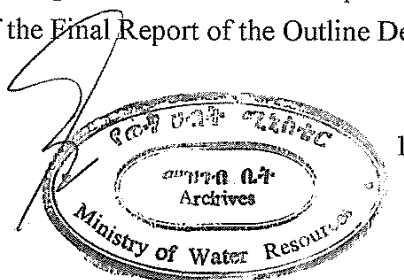
(1) Items of Equipment to be Procured

The Team explained the items of equipment to be procured as shown in **Annex 1** which is presented in the Draft Final Report.

(2) Procurement Process of the Programme

Both side reconfirmed that procurement process will be supervised by the Procurement Management Agent (hereinafter referred to as “the Agent”) with necessary consultation by the Consultative Committee (hereinafter referred to as “the Committee”). And both sides also reconfirmed roles of the Agent as follows;

- 1) The Agent renders the services stipulated in the provisions of the G/A as well as the E/N for the Programme;
- 2) The Agent will undertake the procurement procedures necessary for the Programme according to the provisions of the G/A and E/N and any other concerned guidelines; and
- 3) The Agent will commence the procurement procedure according to the contents of the Final Report of the Outline Design.



The Team has explained that if tender price exceeds the amount agreed on G/A and E/N, quantity or/and items of the equipment will be reduced until the Programme cost comes down to the amount agreed on G/A and E/N.

The Ethiopian side has agreed that if there is a remaining amount of the Programme cost after tenders, additional items of equipment will be procured based on priorities which are set in the Final Report.

It is also understood by the Ethiopian side that decision on addition or reduction of the equipment to be procured will be made through necessary consultation among members of the Committee.

(3) Programme Cost

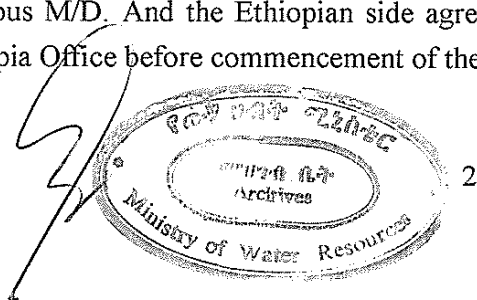
As it was already agreed in the previous M/D, the Ethiopian side has agreed that the Programme cost should not exceed the upper limit of amount of Eight Hundred Million Japanese Yen (800,000,000 Japanese Yen) agreed on G/A and E/N. Both sides also confirmed that the Programme cost contains procurement cost of equipment, the cost for internal transport upto respective regional water bureaus, the Agent fee and initial operational training of equipment by the manufacturers.

(4) Consultative Committee

The Ethiopian side has understood that the Ministry of Finance and Economic Development (hereinafter referred to as “MoFED”) will chair the Committee in order to facilitate consultation and procurement process. Members of the Committee have reconfirmed functions of the Committee, which was already agreed in the previous M/D, and way forward of the Programme at the 1st Committee meeting held on 22nd July, 2009.

(5) Ownership and Operation and Maintenance (O&M) Responsibilities of Equipment

The Ethiopian side has reconfirmed that the MoWR is an owner of equipment and Regional Water Resources Development Bureaus are responsible for O&M of equipment. The Team explained that submission of the letter of consent from six (6) Regional Bureaus is prerequisite for procurement of equipment as agreed on the previous M/D. And the Ethiopian side agreed to submit the letter of consent to JICA Ethiopia Office before commencement of the procurement procedure.



(6) Final Report

The Ethiopian side has agreed to handle the Final Report with care, because the Final Report is confidential document since it contains information related to the tender.

(7) Undertakings of the MoWR

Both sides reconfirmed the undertakings of the MoWR, which were described in the previous M/D, as follows.

1) Tax Exemption

According to the regulation, equipment for emergency purposes will be tax exempted. The MoWR confirmed that it will make necessary applications of tax exemption to the concerned authorities in order to deliver the equipment to respective Regional Water Development Bureaus with the least delay.

2) Bank Transfer Charges

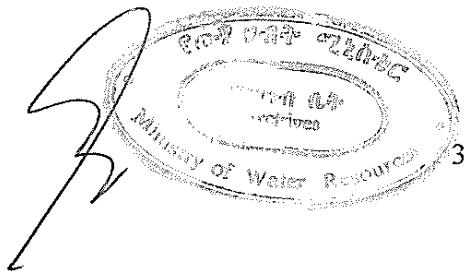
The Ethiopian side has confirmed that necessary bank transfer charge, which may occur when the fund is transferred from the bank account of the Government of Ethiopia to the account of the Agent, will be covered by the Ethiopian side. Both sides have agreed that other bank charges will be covered by the Programme cost.

3) Acquisition of the Letter of Consent

The MoWR have agreed to exchange the Letter of Consent to confirm undertakings of MoWR and Regional Water Development Bureaus in the previous M/D. The Team requested the MoWR to exchange the Letter of Consent and submit it to JICA Ethiopia Office by end of August, 2009.

4) Construction of Water Supply Facilities in Southern Nations, Nationalities and Peoples' Region

As written in the Memorandum of Meeting signed on 20th April, 2009 between the Water Resource Development Bureau of Southern Nations, Nationalities and Peoples Region (hereinafter referred to as "WRDB of SNNPR") and the Preparatory Study Team, WRDB of SNNPR has agreed to make necessary budgetary allocation for construction of water supply facilities in SNNPR in Fiscal Year 2009/2010.



The Team requested the MoWR to reconfirm that WRDB of SNNPR will make proper arrangements for budget allocation for execution of the work, construction work, supervision of construction, operation and maintenance of the facilities.

5) Submission of Maintenance Record and Monitoring Forms

The Team requested the MoWR to monitor proper utilization, maintenance and condition of vehicles and equipment to be procured by means of submission of the annual operation and maintenance records by Regional Water Bureaus to MoWR using the forms attached in **Annex 3** and **Annex 4**. The report shall be sent from the respective Regional Water Bureaus to the MoWR as well as JICA Ethiopia Office as carbon copy once a year at least for five (5) years time. The Ethiopian side agreed to the monitoring procedure described in item 3-4 of the Draft Final Report, which is also attached in **Annex 5**.

Annex 1: LIST OF EQUIPMENT

Annex 2: PROJECT COST ESTIMATION (CONFIDENTIAL)

Annex 3: OPERATION AND MAINTENANCE RECORD

Annex 4: MONITORING FORM

**Annex 5: PROJECT OPERATION PLAN ITEM 4-1 OF THE DRAFT OUTLINE
DESIGN REPORT**

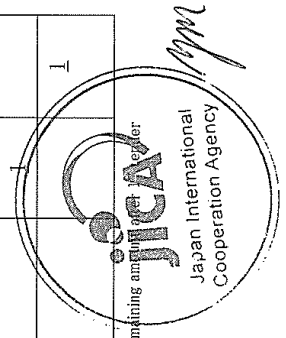
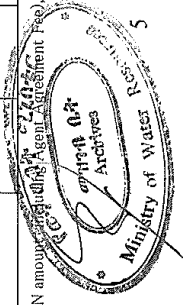


Annex 1 List of Equipment

Classification	Requested Equipment				Regions						
	Item	Spec	Priority	Total Qt	Oromia	Tigray	SNNPR	Ambara	Afar	Somali	
Equipment for Emergency Water Supply	Water Purification Chemicals (1,000 sachet)	5 m3	A	5,422	1,008	718	1,008	1,134	630	924	
			B								
	Plastic Tank for Water Storage	10 m3	A	106	16	17	17	27	15	14	
			B	31	5	10	8		8		
	<u>Water Tank Truck (Vehicle)</u>	6 m3	A	4		1	1		1	1	
			B	6		3	2			1	
	Portable Water Purification Plant	15m3	A	9	5	1	1		1	1	
			B	8	2	3	1			2	
	Equipment for Water Supply Facilities	8 m3 /hour	A	46	2	12	13	5	7	7	
			B								
Equipment for Drilling Wells Equipment	12 m3 /hour	A	31	3	8	8	6	1	5		
		B									
Equipment for Flood Management	Equipment for Exploratory Well	A	2								
		B									
Equipment for Borehole Maintenance	Drilling Rig, Truck with Crane, Air Compressor, etc	A	2	1	1						
		B	0								
Equipment for Borehole Maintenance	Bulldozer	A	1					1			
		B									
Equipment for Borehole Maintenance	<u>Heavy Equipment Transport Vehicle</u>	A	1								
		B									
Equipment for Borehole Maintenance	Service Rig and Associated Tools	A	1								
		B									

※Priority A: Equipment to be procured (Estimated to be G/A and E/N amounting to 27.7% of total amount). Priority B: Equipment to be additionally procured if there is remaining amount after.

※Figures revised from the original request are underlined.



Annex 2 Project Cost Estimation

Japanese side cost obligation

Ethiopia side cost obligation

Table 2 Ethiopian side cost obligation

Item	Cost (Birr)
Bank commission (Transfer from Ethiopian account to Agent account)	45,500
Internal Tax (V.A.T.)	13,636,000
Construction fee for Water Supply Scheme (SNNP)	1,820,000
Total	15,501,500

Note:

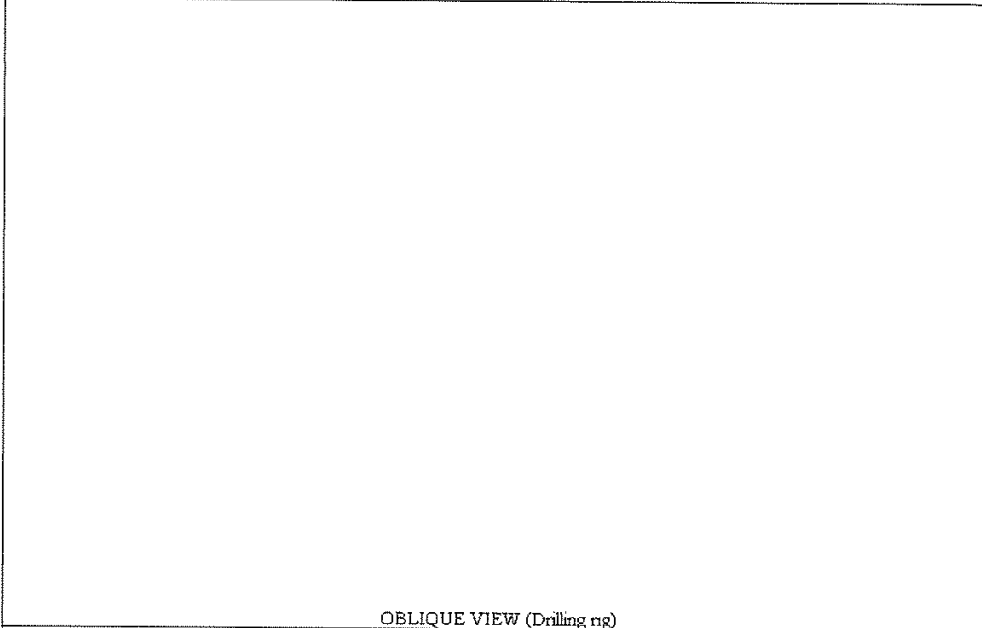
- (1) This cost estimate should never be duplicated in any form nor released to any other party(s) until relevant contracts are awarded by executing agency. This embargo is for securing fairness of tender procedure.
- (2) VAT amount is estimated 15% of procurement cost. If VAT will exempt, the cost shall be not required.
- (2) Time of Cost Estimation: May 2009
- (3) Exchange rate: 1 USD = 95.78 Yen, 1Birr = 9.00 Yen



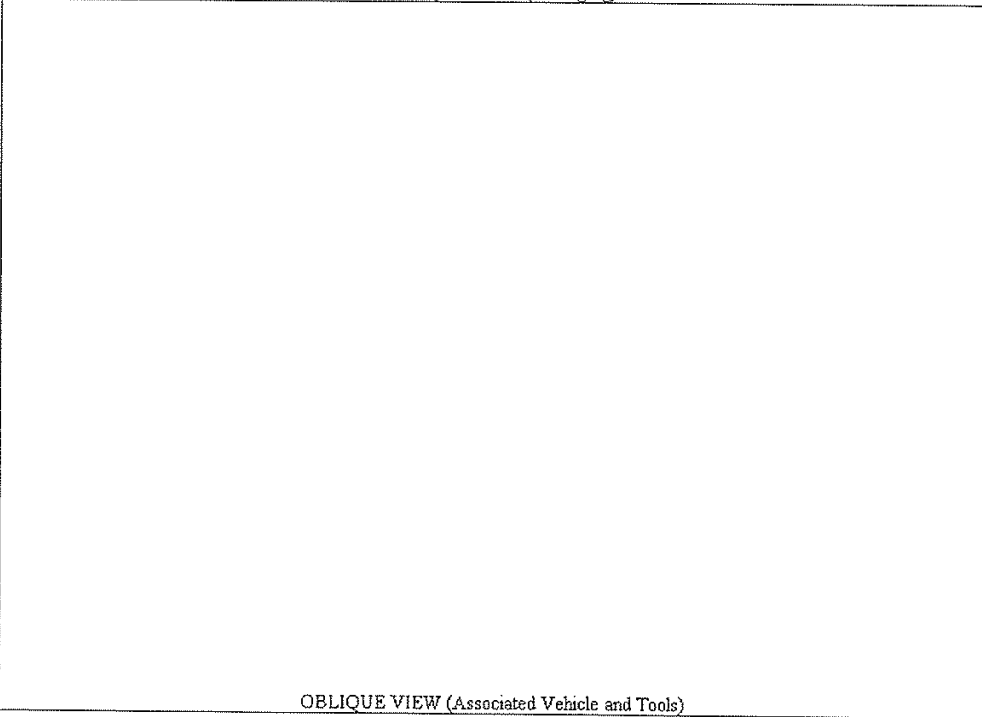
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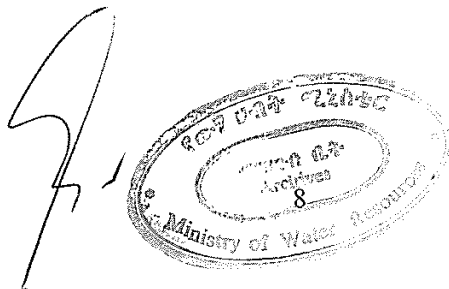
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OBLIQUE VIEW (Drilling rig)



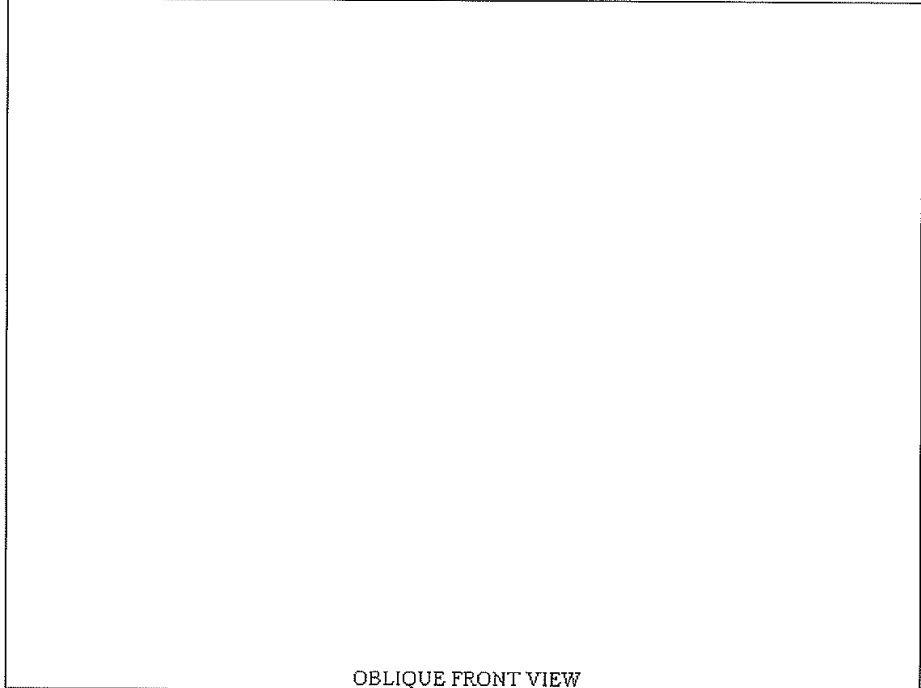
OBLIQUE VIEW (Associated Vehicle and Tools)



VEHICLE OPERATION AND MAINTENANCE RECORD (For Photo Frame)

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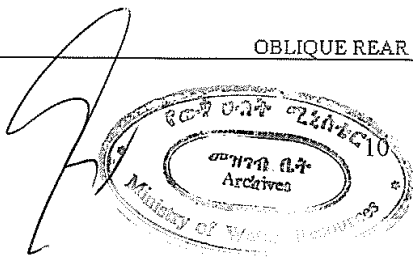
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OBLIQUE FRONT VIEW



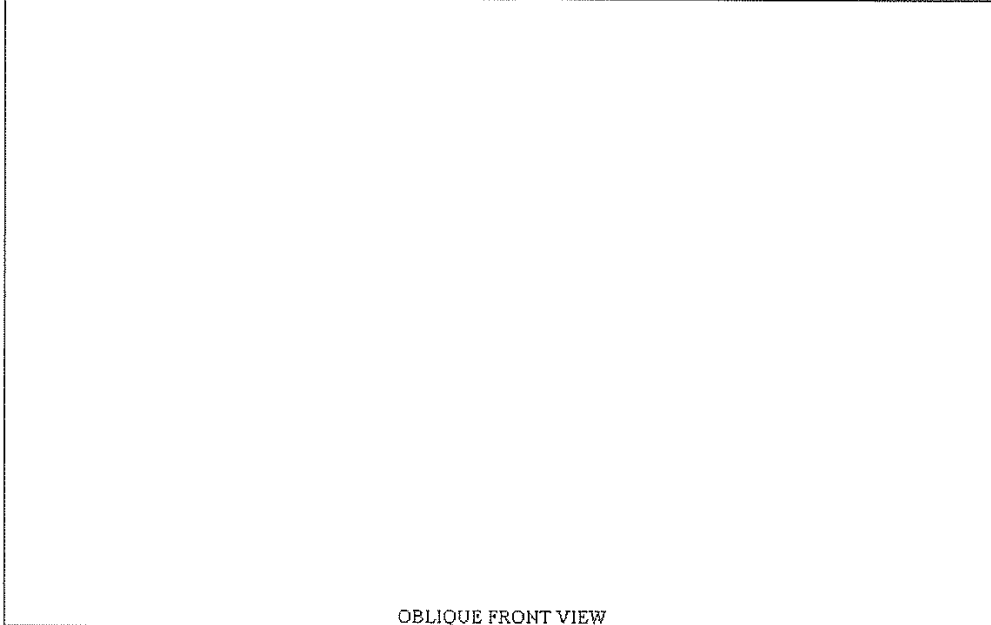
OBLIQUE REAR VIEW



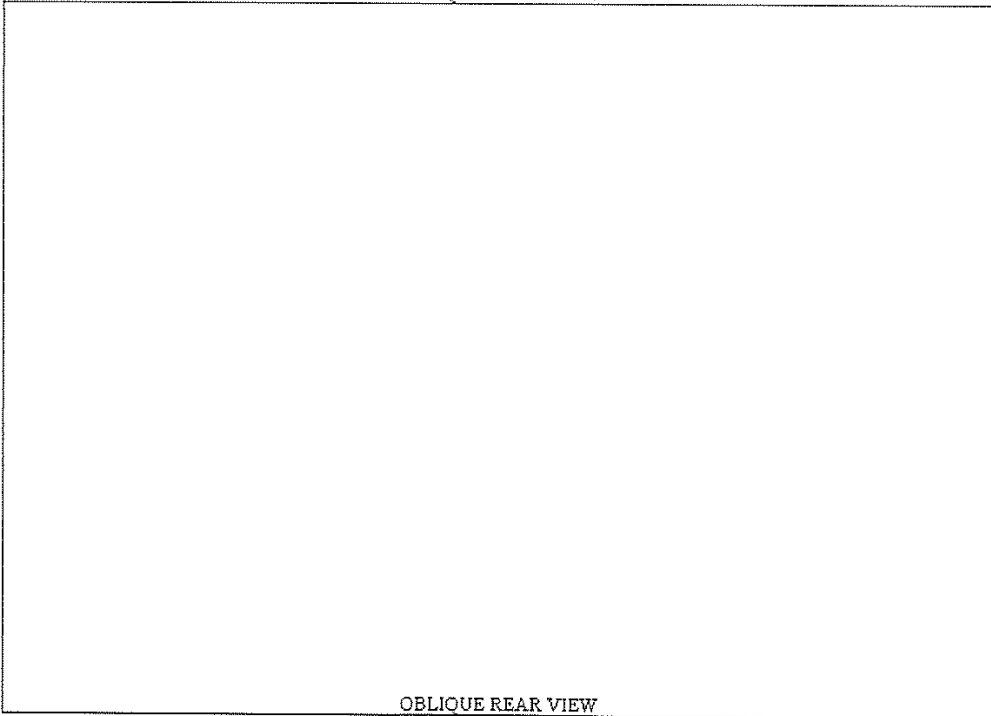
EQUIPMENT OPERATION AND MAINTENANCE RECORD (For Photo Frame)

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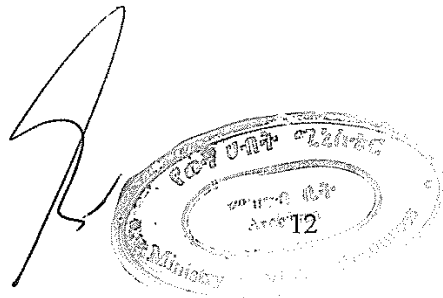
Month



OBLIQUE FRONT VIEW



OBLIQUE REAR VIEW



Annex 5 Project Operation Plan

(1) Basic Concept

The Ministry of Water Resources holds the ownership for the procurement of the equipment, and users of procured equipment are regional water bureaus. Moreover, each regional water bureau has agreed to bear operation and maintenance cost for procured equipment.

Since equipment with low frequency of usage in daily which like disaster control are also contained in procured equipment, monitoring system shall be established in order to grasp a situation of utilisation and maintenance and to prevent utilisation of other purpose for the procured equipment.

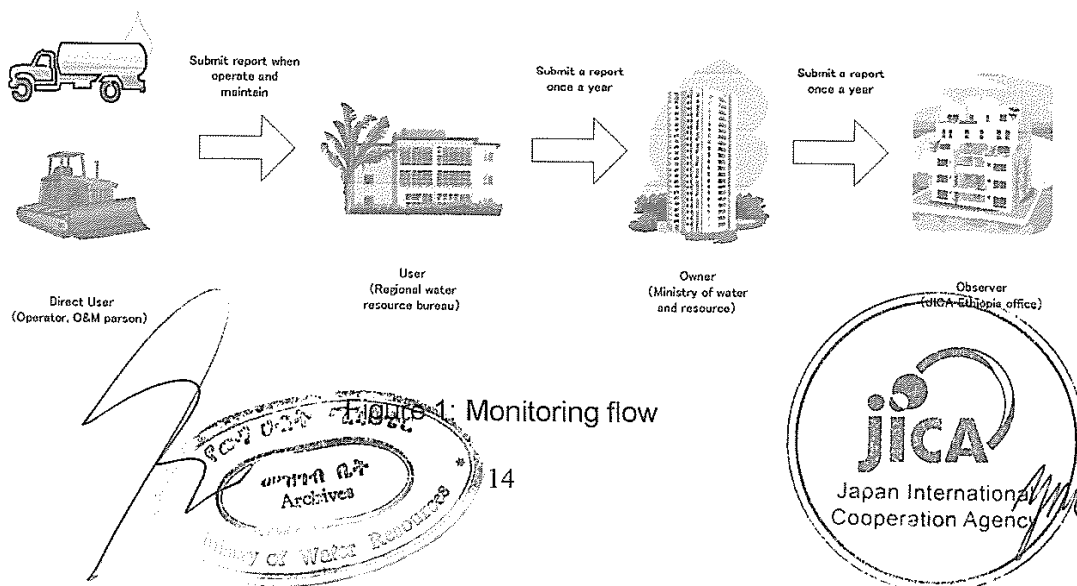
(2) Operation and Maintenance Structure

Since the management section for the equipment already exists in each regional water bureau, water works and construction enterprises under the regional water bureau which are end users of the procured equipment and they have an experience in management of the similar equipment related water supply. Therefore it is not necessary to newly build or re-organize a management system for proper operation and maintenance.

(3) Monitoring System

As mentioned a basic policy, since equipment with low frequency of usage in daily are contained in procured equipment. Therefore in order to understand the situation of usage and management, the monitoring system shall be established.

The monitoring system is made based on the monitoring sheet (Annex 3 and 4), and each regional water bureau shall submit it to Ministry of Water Resources and JICA Ethiopia office once in a year. A monitoring will be carried out for the period of five (5) years after handover of the equipment. A monitoring flow is shown in Figure 1.



(3) Exchange of Note

EMBASSY OF JAPAN
ADDIS ABABA
ETHIOPIA

☎ 251-11-551-1088
☒ 5650
Fax: 251-11-551-1350
E-mail: japan-embassy@ethionet.et

Addis Ababa, April 23, 2009

Excellency,

I have the honour to refer to the recent discussions held between the representatives of the Government of Japan and of the Government of the Federal Democratic Republic of Ethiopia concerning Japanese economic cooperation to be extended with a view to strengthening friendly and cooperative relations between the two countries and also to promoting the efforts by the Government of the Federal Democratic Republic of Ethiopia to address climate change with special emphasis on the adaptation to and the mitigation of climate change as well as on the improvement of access to clean energy, and to propose on behalf of the Government of Japan the following understanding:

1.(1) For the purpose of contributing to the implementation of the Programme for Emergency Water Supply for Addressing Climate Change (hereinafter referred to as "the Programme") by the Government of the Federal Democratic Republic of Ethiopia, the Government of Japan has decided that a grant of eight hundred million Japanese Yen (¥800,000,000) (hereinafter referred to as "the Grant") be extended to the Government of the Federal Democratic Republic of Ethiopia, in accordance with the relevant laws and regulations of Japan.

(2) The Grant will be made available by concluding a grant agreement between the Government of the Federal Democratic Republic of Ethiopia or its designated authority and the Japan International Cooperation Agency (JICA) (hereinafter referred to as "the G/A").

(3) The terms and conditions of the Grant as well as the procedures for its utilization will be governed by the G/A within the scope of the present understanding.

2. The Grant will be available during such period as may be specified in the G/A, provided that the period will be between the date of entry into force of the G/A and April 30, 2010.

3. The Grant and its accrued interest shall be used by the Government of the Federal Democratic Republic of Ethiopia properly and exclusively for the purchase of such products and services necessary for the implementation of the Programme (hereinafter referred to collectively as "the Components") as well as for such fees necessary for the implementation of the Programme as may be specified in the G/A.

K.K.

4. For the effective, smooth and appropriate purchase of the Components and for other necessary supports to the Government of the Federal Democratic Republic of Ethiopia, the Government of the Federal Democratic Republic of Ethiopia shall conclude an employment contract with an independent and competent agent (hereinafter referred to as "the Agent") to act on behalf of the Government of the Federal Democratic Republic of Ethiopia in accordance with the provisions of the G/A. The said employment contract will be approved by JICA in a written form to be eligible for the Grant and its accrued interest.

5. The Grant will be executed by JICA, in accordance with the provisions of the G/A, by making payments in Japanese Yen to an account to be opened in the name of the Government of the Federal Democratic Republic of Ethiopia at a bank in Japan designated by the Government of the Federal Democratic Republic of Ethiopia or its designated authority.

6. (1) The Government of the Federal Democratic Republic of Ethiopia shall take necessary measures:

(a) to ensure prompt customs clearance and to assist internal transportation in the Federal Democratic Republic of Ethiopia of the products referred to in paragraph 3;

(b) to refund the amount remaining in the account referred to in paragraph 5 to JICA subject to the conditions provided for in the G/A;

(c) to ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the Federal Democratic Republic of Ethiopia with respect to the purchase of the Components as well as the employment of the Agent be borne by its designated authority without using the Grant and its accrued interest;

(d) to accord Japanese nationals and / or nationals of third countries, including such nationals employed by the Agent, whose services may be required in connection with the supply of the Components such facilities as may be necessary for their entry into the Federal Democratic Republic of Ethiopia and stay therein for the performance of their work (The term "nationals" whenever used in the present understanding means Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons in the case of Japanese nationals, and physical or juridical persons of third countries in the case of nationals of third countries.);

(e) to present, through the Agent, to JICA a report prepared in a written form acceptable to JICA on the transactions on the account referred to in paragraph 5 subject to the conditions provided for in the G/A;

K.K.

(f) to ensure that the Components be maintained and used properly and effectively for the implementation of the Programme;

(g) to bear all the expenses, other than those covered by the Grant and its accrued interest, necessary for the implementation of the Programme; and

(h) to give due environmental and social consideration in the implementation of the Programme.

(2) Upon request, the Government of the Federal Democratic Republic of Ethiopia shall provide the Government of Japan with necessary information on the Programme.

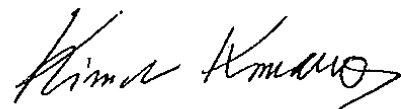
(3) With regard to the shipping and marine insurance of the products referred to in paragraph 3, the Government of the Federal Democratic Republic of Ethiopia shall refrain from imposing any restrictions that may hinder fair and free competition among the shipping and marine insurance companies.

(4) The products referred to in paragraph 3 shall not be exported or re-exported from the Federal Democratic Republic of Ethiopia.

7. The two Governments shall consult with each other in respect of any matter that may arise from or in connection with the present understanding.

I have further the honour to propose that this Note and Your Excellency's Note in reply confirming on behalf of the Government of the Federal Democratic Republic of Ethiopia the foregoing understanding shall constitute an agreement between the two Governments, which shall enter into force on the date of Your Excellency's Note in reply.

I avail myself of this opportunity to renew to Your Excellency the assurance of my highest consideration.



Kinichi KOMANO

Ambassador Extraordinary and
Plenipotentiary of Japan to
Ethiopia

H.E. Ato Ahmed Shide
State Minister of Finance and
Economic Development of the
Federal Democratic Republic of
Ethiopia
Addis Ababa

EMBASSY OF JAPAN
ADDIS ABABA
ETHIOPIA

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Agreed Minutes on Procedural Details

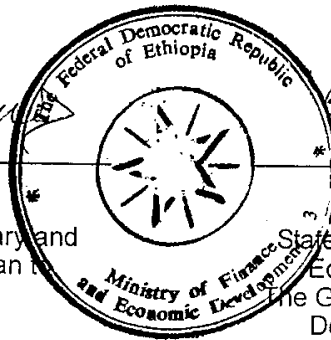
With reference to paragraph 4 of the Exchange of Notes between the Government of Japan and the Government of the Federal Democratic Republic of Ethiopia dated April 23, 2009 concerning Japanese economic cooperation to be extended with a view to strengthening friendly and cooperative relations between the two countries and also to promoting the efforts by the Government of the Federal Democratic Republic of Ethiopia to address climate change with special emphasis on the adaptation to and the mitigation of climate change as well as on the improvement of access to clean energy (hereinafter referred to as "the Exchange of Notes"), the representatives of the Government of Japan and of the Government of the Federal Democratic Republic of Ethiopia wish to record the following procedural details:

The Government of the Federal Democratic Republic of Ethiopia shall conclude an employment contract, in principle within two months after the date of entry into force of the grant agreement referred to in sub-paragraph (2) of paragraph 1 of the Exchange of Notes, with Japan International Cooperation System (JICS) which is the independent and competent agent referred to in paragraph 4 of the Exchange of Notes.

Addis Ababa, April 23, 2009



Kinichi Komano
Ambassador Extraordinary and
Plenipotentiary of Japan to
Ethiopia





Ahmed Shide
State Minister of Finance and
Economic Development
The Government of the Federal
Democratic Republic of
Ethiopia

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ADDIS ABABA
ETHIOPIA

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✉ 5650
Fax: 251-11-551-1350
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Record of Discussions

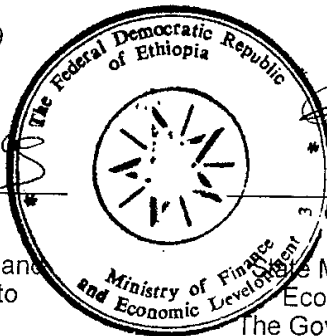
With reference to the Exchange of Notes between the Government of Japan and the Government of the Federal Democratic Republic of Ethiopia dated April 23, 2009 concerning Japanese economic cooperation to be extended with a view to strengthening friendly and cooperative relations between the two countries and also to promoting the efforts by the Government of the Federal Democratic Republic of Ethiopia to address climate change with special emphasis on the adaptation to and the mitigation of climate change as well as on the improvement of access to clean energy (hereinafter referred to as "the Exchange of Notes"), the representatives of the Japanese Delegation and of the Ethiopian Delegation wish to record the following:


1. With regard to paragraph 3 of the Exchange of Notes, the representative of the Japanese Delegation stated that the Government of Japan understands that the Government of the Federal Democratic Republic of Ethiopia will take necessary measures to prevent any offer, gift or payment, consideration or benefit which would be construed as a corrupt practice in the Federal Democratic Republic of Ethiopia from being made as an inducement to or reward for the award of the contracts that the independent and competent agent referred to in paragraph 4 of the Exchange of Notes will enter into for the purchase of the products and services referred to in paragraph 3 of the Exchange of Notes.
2. The representative of the Ethiopian Delegation stated that the Ethiopian Delegation has no objection to the statement by the representative of the Japanese Delegation referred to above.

Addis Ababa, April 23, 2009



Kinichi Komano
Ambassador Extraordinary and
Plenipotentiary of Japan to
Ethiopia




Ahmed Shide
Minister of Finance and
Economic Development
The Government of the Federal
Democratic Republic of
Ethiopia

(4) Grant Aid Agreement

Grant Agreement No. 0868690

GRANT AGREEMENT
Between
THE JAPAN INTERNATIONAL
COOPERATION AGENCY, JAPAN
And
THE GOVERNMENT OF THE FEDERAL
DEMOCRATIC REPUBLIC OF ETHIOPIA
For
THE PROGRAMME
FOR EMERGENCY WATER SUPPLY
FOR ADDRESSING CLIMATE CHANGE

Dated April 23, 2009

\$



On the basis of the Exchange of Notes between the Government of Japan and the Government of the Federal Democratic Republic of Ethiopia dated April 23, 2009 (hereinafter referred to as "the E/N") concerning the Japanese grant assistance for the Programme for Emergency Water Supply for Addressing Climate Change (hereinafter referred to as "the Programme") by the Government of the Federal Democratic Republic of Ethiopia, the JAPAN INTERNATIONAL COOPERATION AGENCY (hereinafter referred to as "JICA") and the Government of the Federal Democratic Republic of Ethiopia have agreed to conclude the following grant agreement referred to in sub-paragraph (2) of paragraph 1 of the E/N:

Article 1 Amount and Purpose of the Grant

For the purpose of contributing to the implementation of the Programme, JICA shall extend a grant of the amount of eight hundred million Japanese Yen (¥800,000,000) (hereinafter referred to as "the Grant") to the Government of the Federal Democratic Republic of Ethiopia in accordance with the relevant laws and regulations of Japan and within the scope of the E/N.

Article 2 Availability of the Grant

The Grant shall be made available by concluding the present grant agreement (hereinafter referred to as "the G/A") during the period between the date of entry into force of the G/A and October 31, 2009, unless the period is extended by mutual consent between JICA and the Government of the Federal Democratic Republic of Ethiopia or the designated authority (hereinafter referred to collectively as "the Authority").

Article 3 Use of the Grant

The Grant and its accrued interest shall be used by the Government of the Federal Democratic Republic of Ethiopia properly and exclusively for the purchase of such products and services, and for improvement access to clean energy necessary for the implementation of the Programme (hereinafter referred to collectively as "the Components") as may be determined through consultations between JICA and the Authority as well as for agent's fees necessary for the employment of the agent referred to in sub-paragraph (2) of Article 5. The Components may be modified by mutual consent between JICA and the Authority.

Article 4 Procurement Guidelines

The Authority shall ensure that the Components are procured in accordance with

Two handwritten signatures in black ink, one on the left and one on the right, positioned below the text of Article 4.

JICA's Procurement Guidelines of Japan's Programme Grant Aid for Environment and Climate Change (Type I - E) (hereinafter referred to as "the Procurement Guidelines").

Article 5 Procurement and Management

(1) The Grant and its accrued interest shall be used by the Government of the Federal Democratic Republic of Ethiopia properly and exclusively for the purchase of the Components with due attention to economy and efficiency and, where international competitive biddings are called for, also to non-discrimination among the eligible sources countries, unless otherwise agreed between JICA and the Authority.

(2) For the effective, smooth and appropriate purchase of the Components and for other necessary supports to the Government of the Federal Democratic Republic of Ethiopia, the Government of the Federal Democratic Republic of Ethiopia shall conclude an employment contract, in principle within two (2) months after the date of entry into force of the G/A, with the independent and competent agent (hereinafter referred to as "the Agent") to act on behalf of the Government of the Federal Democratic Republic of Ethiopia in accordance with the scope of the Agent's services as set forth in Schedule I attached herewith.

(3) The employment contract referred to in sub-paragraph (2) above shall become effective upon the approval by JICA in a written form to be eligible for the Grant and its accrued interest.

Article 6 Banking Arrangement and Payments

(1) The Authority shall open a Yen ordinary deposit account at a bank in Japan in the name of the Government of the Federal Democratic Republic of Ethiopia (hereinafter referred to as "the Account") within fourteen (14) days after the date of entry into force of the G/A and shall notify JICA in the written form prescribed in Schedule II attached herewith of the completion of the procedures for the opening of the Account within seven (7) days after the date of the opening of the Account.

(2) JICA shall execute the Grant by making payments in Japanese Yen to the Account during the period referred to in Article 2 and on or after the date of receipt of the written notification referred to in sub-paragraph (1) above.

(3) The sole purpose of the Account is to receive the payments in Japanese Yen from



JICA referred to in sub-paragraph (2) above as well as to make payments necessary for the purchase of the Components and for the fees referred to in Article 3.

Article 7 Disbursement Procedures

(1) The Authority shall ensure that the Grant and its accrued interest be completely disbursed from the Account to be ready for the payments necessary for the purchase of the Components as well as for the fees referred to in Article 3 within a period of twelve (12) months after the date of the execution of the Grant unless the period is extended by mutual consent between JICA and the Authority.

(2) The Authority and the bank referred to in sub-paragraph (1) of Article 6 (hereinafter referred to as "the Bank") shall conclude an arrangement regarding transfer of funds in which the Authority designates the Agent as the representative acting on behalf of the Government of the Federal Democratic Republic of Ethiopia concerning all transfers of funds to the Agent.

(3) The Agent shall make requests to the Bank for transferring of funds to cover expenses necessary for the purchase of all or part of the Components and for the fees referred to in Article 3. Each of the requests shall be accompanied by a detailed estimate of the expenses which is to be covered by the funds transferred and a copy of the approval by JICA referred to in sub-paragraph (3) of Article 5. A copy of the request and of the estimation shall be sent at the same time to the Authority.

(4) Pursuant to the Agent's request referred to in sub-paragraph (3) above, the Bank shall notify the Authority of the request made by the Agent. The Bank shall pay the amount specified in the request to the Agent from the Account unless the Authority makes opposition to such payment within ten (10) working days after the notification by the Bank. The Agent shall make payments to suppliers and / or providers of the Components from the funds received (hereinafter referred to as "the Advances") in accordance with the terms of the contracts with them.

After such payments, the Agent may use the remaining amount of the Advances, if any, for the purchase of other part of the Components as well as for the fees referred to in Article 3 without transferring the said amount back to the Account.

(5) The Authority shall present, through the Agent, to JICA a report prepared in a written form acceptable to JICA on the transactions on the Account together with



copies of contracts and other documents concerning the relevant transactions without delay when the Grant and its accrued interest are completely disbursed from the Account in accordance with the provisions of sub-paragraph (1) above or when the period referred to in sub-paragraph (1) above expires, or upon request by JICA.

Article 8 Reimbursement Procedures

When the total of the remaining amount in the Account and the remaining amount of the Advances (hereinafter referred to collectively as "the Remaining Amount") is less than three (3) percent of the Grant and its accrued interest excluding the fees referred to in Article 3, the Authority may request the Agent to reimburse the Remaining Amount to the Authority for payments which have already been made by the Authority for the purchase of all or part of the Components, provided that such payments have been made on or after the date of entry into force of the G/A.

When the Agent deems the request by the Authority appropriate, the Agent shall make requests to the Bank for transferring to the Agent the remaining amount in the Account by issuing to the Bank a certificate of eligible procurement for the Remaining Amount certified by both the Authority and the Agent as per the form prescribed in Schedule III attached herewith. After such transfer, the Agent shall reimburse the Remaining Amount to the Authority.

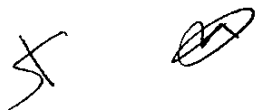
Article 9 Refund

When JICA finds, when the period referred to in sub-paragraph (1) of Article 7 expires, that the disbursement of the Grant and its accrued interest from the Account is incomplete, it shall notify the Authority of the procedures for refunding of the Remaining Amount. The Authority shall refund the Remaining Amount to JICA without delay through such procedures as notified above.

Article 10 Obligations of the Government of the Federal Democratic Republic of Ethiopia

(1) The Government of the Federal Democratic Republic of Ethiopia shall take necessary measures:

- (a) to ensure prompt customs clearance and to assist internal transportation in the Federal Democratic Republic of Ethiopia of the products referred to in Article 3;
- (b) to ensure that customs duties, internal taxes and other fiscal levies which may



be imposed in the Federal Democratic Republic of Ethiopia with respect to the purchase of the Components as well as the employment of the Agent be borne by its designated authority without using the Grant and its accrued interest;

(c) to accord Japanese nationals and / or nationals of third countries, including such nationals employed by the Agent, whose services may be required in connection with the supply of the Components such facilities as may be necessary for their entry into the Federal Democratic Republic of Ethiopia and stay therein for the performance of their work (The term "nationals" whenever used in the G/A means Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons in the case of Japanese nationals, and physical or juridical persons of third countries in the case of nationals of third countries.);

(d) to ensure that the Components be maintained and used properly and effectively for the implementation of the Programme;

(e) to bear all the expenses, other than those covered by the Grant and its accrued interest, necessary for the implementation of the Programme; and


(f) to give due environmental and social consideration in the implementation of the Programme.

(2) Upon the request of JICA, the Government of the Federal Democratic Republic of Ethiopia shall provide JICA with necessary information on the Programme.

(3) With regard to the shipping and marine insurance of the products referred to in Article 3, the Government of the Federal Democratic Republic of Ethiopia shall refrain from imposing any restrictions that may hinder fair and free competition among the shipping and marine insurance companies.

(4) The products referred to in Article 3 shall not be exported or re-exported from the Federal Democratic Republic of Ethiopia.

(5) The Government of the Federal Democratic Republic of Ethiopia shall ensure that any official of the Government of the Federal Democratic Republic of Ethiopia does not undertake any part of the Japanese nationals' work and /or the work of nationals of third countries on purchase of the Components.



Article 11 Committee

(1) The Authority shall establish a consultative committee (hereinafter referred to as "the Committee") in order to discuss any matter that may arise from or in connection with the G/A.

(2) The Committee shall be chaired by the representative of the Authority. The representatives of JICA and the representatives of the Authority shall be members of the Committee. Within ten (10) days after the date of entry into force of the G/A, JICA and the Authority shall appoint their representatives respectively.

(3) The Agent shall appoint its representative who will participate in the meetings of the Committee as an adviser immediately after the conclusion of the employment contract referred to in sub-paragraph (2) of Article 5. Representatives of organizations other than the Agent may be invited, whenever necessary, to participate in the meetings of the Committee to provide advisory services.

(4) The first meeting of the Committee shall be held in principle in the Federal Democratic Republic of Ethiopia immediately after the approval by JICA of the employment contract referred to in sub-paragraph (2) of Article 5. Further meetings will be held upon the request of either JICA or the Authority whenever JICA deems it necessary to call such meetings. The Agent may advise JICA and the Authority on the necessity to call a meeting of the Committee.

(5) The terms of reference of the Committee shall be as follows:

- (a) to confirm an implementation schedule of the Programme for the speedy and effective utilization of the Grant and its accrued interest;
- (b) to discuss determination and/or modification of the Components, taking into account of the products enumerated in the list attached to the Procurement Guidelines and/or the result of the preparatory survey for the Programme by JICA;
- (c) to discuss modifications of the Programme;
- (d) to exchange views on allocations of the Grant and its accrued interest as well as on potential end-users;



(e) to identify problems which may delay the utilization of the Grant and its accrued interest, and to explore solutions to such problems;

(f) to exchange views on publicity related to the utilization of the Grant and its accrued interest; and

(g) to discuss any other matters that may arise from or in connection with the G/A.

Article 12 Applicable Laws

The validity, interpretation and performance of the G/A shall be governed by the relevant laws and regulations of Japan.

Article 13 Amendments

The G/A may be amended within the scope of the E/N by written agreement between JICA and the Government of the Federal Democratic Republic of Ethiopia. The amendment to the G/A shall enter into force on the date of signature of such written agreement by JICA and the Government of the Federal Democratic Republic of Ethiopia.


Article 14 Consultation

JICA and the Government of the Federal Democratic Republic of Ethiopia shall consult with each other in respect of any matter that may arise from or in connection with the G/A.

Article 15 Effectiveness and Termination

(1) The G/A shall enter into force on the date of signature by JICA and the Government of the Federal Democratic Republic of Ethiopia, provided that the E/N is in force.

(2) When JICA recognizes any of the following situations, JICA may, by notification to the Government of the Federal Democratic Republic of Ethiopia, suspend in whole or in part the rights of the Government of the Federal Democratic Republic of Ethiopia and /or require the Government of the Federal Democratic Republic of Ethiopia to remedy the situation. When the Government of the Federal Democratic Republic of Ethiopia will not remedy the situation within the period of thirty (30) days from the date of receipt of such notification, JICA may, with the consent of the Government of Japan, terminate the G/A:



- (a) default of the Government of the Federal Democratic Republic of Ethiopia in fulfillment of any obligations or in compliance with the terms and conditions under the E/N or the G/A;
- (b) a fundamental change of circumstances relating to the Authority which has occurred with regard to those existing at the time of the entry into force of the G/A; and
- (c) any emergency, unforeseen circumstances or force majeure, such as war, civil war, earthquake and flood which cause serious difficulties in implementing the Programme.

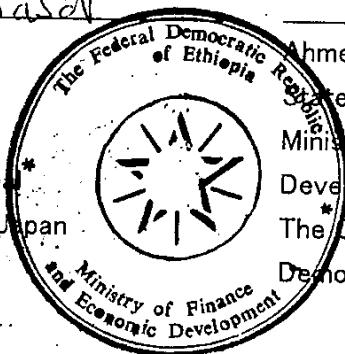
Addis Ababa, April 23, 2009



Katsuhiro Sasaki
Chief Representative
JICA Ethiopia Office
The Japan International
Cooperation Agency, Japan



Ahmed Shide
Minister
Ministry of Finance and Economic
Development,
The Government of the Federal
Democratic Republic of Ethiopia



Schedule I

Scope of the Agent's Services

1. Provision of information and advice to the Committee.
2. Conclusion of an agreement for detailed design works and construction supervision with the consultants.
3. Ensuring that the Authority fully understand the procedures to employ the Agent and the procedures for the purchase of the Components.
4. (1) Preparation of specifications of products for the Authority, including, where necessary, detailed discussions with the end-users.

(2) Preparation of bid documents appropriate to the type and value of the Components to be purchased.

(3) Advertisement of bids, where the international competitive bidding is to be held, the wording of which is to be agreed with the Authority.

(4) Evaluation of bids, including both technical and financial considerations.

(5) Submission of recommendations to the Authority for approval to place orders with suppliers and providers of the Components.
5. Receipt and utilization of the Advances in accordance with the employment contract with the Authority.
6. Negotiation and conclusion of contracts with suppliers and providers of the Components, including satisfactory payments, shipment and inspection arrangements, where necessary.
7. Checking the progress of the Programme.

8. Providing the Authority with documents containing detailed information of progress of orders, notification of orders placed, amendments to contracts, delivery and service information, shipping documents, etc.

9. Payments to suppliers and providers of the Components from the Advances.

5/



Schedule II

(Form)

Date:

Ref.:

To: The JAPAN INTERNATIONAL COOPERATION AGENCY, JAPAN

Attention : Mr. Yoshihisa UEDA, Vice President

Notification of the Opening of the Account and
Request for the Payments of the Grant for
the Programme for Emergency Water Supply for Addressing Climate Change

In accordance with the provisions of Article 6 of the Grant Agreement No. 0868690 between the JAPAN INTERNATIONAL COOPERATION AGENCY and the Government of the Federal Democratic Republic of Ethiopia dated April 23, 2009, we would like to notify JICA of the completion of the procedures for the opening of the Yen ordinary deposit account in the name of the Government of the Federal Democratic Republic of Ethiopia, and to request JICA to make payments of the grant specified in Article 1 of the above-mentioned Grant Agreement on the basis of the following information:

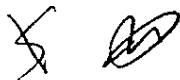
1. The amount to be paid (Japanese Yen):
2. Name of the Government / the designated authority:
3. Bank name:
4. Account number:

(Authorized Signature)

Name

Title

The Government of the Federal
Democratic Republic of Ethiopia




Certificate of Eligible Procurement
for the Remaining Amount
(Reimbursement Procedures)

Date:

Ref.:

With reference to the payment order, the undersigned representative of the Authority referred to in Article 2 of the Grant Agreement No. 0868690 between the JAPAN INTERNATIONAL COOPERATION AGENCY and the Government of the Federal Democratic Republic of Ethiopia for the Programme for Emergency Water Supply for Addressing Climate Change dated April 23, 2009 (hereinafter referred to as "the G/A") hereby certifies that the procurement related to the said payment order as listed below complies with all the relevant terms and conditions of the G/A.

The undersigned further certifies that the Authority has neither heretofore applied for reimbursement under the G/A nor for any other financing arrangements with other sources of official assistance in respect of any of the amount requested for reimbursement as covered by the payment order.

✱ 

The following are the principal relevant facts concerning the procurement:

1.	2.	3.	4.	5.	6.	7.	8.	9.
Trans- action	Purchaser	Supplier/Prov ider of the Components (Name)	Nationality of Supplier/ Provider of the Components	Commodity/ Service	Origin	Date of Payment	Amount of Payment	Method of Procurement
1.								
2.								
3.								
4.								

The following documents (in one copy) are enclosed herewith for each of the above transactions.

- a. Covering letter made by a negotiating/paying bank
- b. Bill of lading, certificate of payment to service providers, post parcel receipt or air consignment note
- c. Invoice

(Authorized Signature)

Name
Title

The Government of the Federal
Democratic Republic of Ethiopia

(Authorized Signature)

Name
Title

Name of the agent referred to in
sub-paragraph (2) of Article 5 of the G/A

A5 . References

A5. References

(1) NGO's Activities at each region

Table 5-1: Status of assistance for water supply program at Tigray region (Year 2008)

Zone	Wareda	Sub Sector	Organization
Central Tigray	Mereb Lehe	Other	NCA
Eastern Tigray	Gulomahda	New water schemes development	Cst joint office
Eastern Tigray	Gulomahda	Rehabilitation and maintenance of water schemes	Cst joint office
Eastern Tigray	Gulomahda	Training	Cst joint office
Eastern Tigray	Saesi Tsaedaem	New water schemes development	Cst joint office
Eastern Tigray	Saesi Tsaedaem	Rehabilitation and maintenance of water schemes	Cst joint office
Eastern Tigray	Saesi Tsaedaem	Training	Cst joint office
Eastern Tigray	Wukro	New water schemes development	ADRA
Eastern Tigray	Wukro	Other	NCA
Southern Tigray	Enderta	Rehabilitation and maintenance of water schemes	SC US
Southern Tigray	Alamata	New water schemes development	Oxfam us
Southern Tigray	Enderta	Other	SC US
Southern Tigray	Enderta	Rehabilitation and maintenance of water schemes	SC US
Southern Tigray	Hintalo Wajirat	Other	SC US
Southern Tigray	Hintalo Wajirat	Rehabilitation and maintenance of water schemes	SC US
Western Tigray	Tahtay Adiyabo	Other	IRC

Table 5-2: Status of assistance for water supply program at Oromia region (Year 2008)

Zone	Wareda	Sub Sector	Organization
Arsi		Other	CARE
Bale	Ginir	New water schemes development	Merlin
Bale	Ginir	Rehabilitation and maintenance of water schemes	Merlin
Bale	Ginir	Training	Merlin
Bale	Gololcha	New water schemes development	Merlin
Bale	Gololcha	Rehabilitation and maintenance of water schemes	Merlin
Bale	Gololcha	Training	Merlin
Bale	Legehida	New water schemes development	Merlin
Bale	Legehida	Rehabilitation and maintenance of water schemes	Merlin
Bale	Legehida	Training	Merlin
Bale	Meda Welabu	Other	NCA
Bale	Rayitu	New water schemes development	Merlin
Bale	Rayitu	Rehabilitation and maintenance of water schemes	Merlin
Bale	Rayitu	Training	Merlin
Bale	Seweyna	New water schemes development	Merlin
Bale	Seweyna	Rehabilitation and maintenance of water schemes	Merlin
Bale	Seweyna	Training	Merlin
Bale		New water schemes development	Merlin
Bale		Rehabilitation and maintenance of water schemes	Merlin
Bale		Training	Merlin
Borena	Arero	New Water Schemes development	AFD
Borena	Dire	New Water Schemes development	AFD
Borena	Dire	New Water Schemes development	AFD
Borena	Dire	New Water Schemes development	AFD
Borena	Dire	Rehabilitation and maintenance of water schemes	AFD

Zone	Wareda	Sub Sector	Organization
Borena	Dire	Rehabilitation and maintenance of water schemes	AFD
Borena	Dire	Training	AFD
Borena	Dire	Training	AFD
Borena	Dugda Dawa	New Water Schemes development	AFD
Borena	Dugda Dawa	New Water Schemes development	AFD
Borena	Dugda Dawa	Training	AFD
Borena	Dugda Dawa	Training	AFD
Borena		New water schemes development	NCA
Borena		Rehabilitation and maintenance of water schemes	Christian Aid
Borena		Rehabilitation and maintenance of water schemes	NCA
Borena		Water tankering	Christian Aid
Borena	Arero	Rehabilitation and maintenance of water schemes	AFD
Borena	Arero	Rehabilitation and maintenance of water schemes	SC US
Borena	Arero	Training	AFD
Borena	Bule Hora	New Water Schemes development	AFD
Borena	Bule Hora	Rehabilitation and maintenance of water schemes	AFD
Borena	Bule Hora	Training	AFD
Borena	Dire	Rehabilitation and maintenance of water schemes	CARE
Borena	Dire	Water Tankering	AFD
Borena	Dire	Water Tankering	CARE
Borena	Dugda Dawa	New water schemes development	Oxfam us
Borena	Dugda Dawa	Rehabilitation and maintenance of water schemes	AFD
Borena	Dugda Dawa	Rehabilitation and maintenance of water schemes	AFD
Borena	Miyo	New Water Schemes development	AFD
Borena	Miyo	New Water Schemes development	AFD
Borena	Miyo	Other	CARE
Borena	Miyo	Rehabilitation and maintenance of water schemes	AFD
Borena	Miyo	Rehabilitation and maintenance of water schemes	AFD
Borena	Miyo	Rehabilitation and maintenance of water schemes	AFD
Borena	Miyo	Rehabilitation and maintenance of water schemes	CARE
Borena	Miyo	Training	AFD
Borena	Miyo	Training	AFD
Borena	Miyo	Water New Water Schemes development	AFD
Borena	Miyo	Water Tankering	AFD
Borena	Moyale	Rehabilitation and maintenance of water schemes	CARE
Borena	Moyale	Rehabilitation and maintenance of water schemes	SC US
Borena	Moyale	Water Tankering	CARE
Borena	Teltele	New water schemes development	GOAL
Borena	Teltele	New water schemes development	GOAL
Borena	Teltele	New water schemes development	GOAL
Borena	Teltele	Other	GOAL
Borena	Teltele	Rehabilitation and maintenance of water schemes	CARE
Borena	Teltele	Training	GOAL
Borena	Yabelo	New Water Schemes development	AFD
Borena	Yabelo	New Water Schemes development	AFD
Borena	Yabelo	New water schemes development	GOAL
Borena	Yabelo	New water schemes development	GOAL
Borena	Yabelo	New water schemes development	GOAL
Borena	Yabelo	other	GOAL
Borena	Yabelo	Rehabilitation and maintenance of water schemes	AFD
Borena	Yabelo	Rehabilitation and maintenance of water schemes	AFD
Borena	Yabelo	Training	AFD
Borena	Yabelo	Training	GOAL
Borena	Yabelo	Water Tankering	CARE
East Harerge	Girawa	Other	CARE
East Harerge	Keresa	Rehabilitation and maintenance of water schemes	GOAL

Zone	Wareda	Sub Sector	Organization
East Harerge	Kombolchaa	Rehabilitation and maintenance of water schemes	GOAL
East Shewa	Adami Tulu Jido	Training	ADRA
East Shewa	Arsi Negele	New Water Schemes development	ORDA
East Shewa	Arsi Negele	Rehabilitation and maintenance of water schemes	ORDA
East Shewa	Arsi Negele	Training	ORDA
Guji		New water schemes development	NCA
Guji	Liben	New water schemes development	COOPI
Guji	Liben	New water schemes development	COOPI
Guji	Liben	Other	COOPI
Guji	Liben	Rehabilitation and maintenance of water schemes	COOPI
Guji	Liben	Rehabilitation and maintenance of water schemes	COOPI
Guji	Liben	Rehabilitation and maintenance of water schemes	COOPI
Guji	Liben	Rehabilitation and maintenance of water schemes	SC US
South West	Shew	Rehabilitation and maintenance of water schemes	SC US
South West Shew	Becho	New water schemes development	Oxfam us
South West Shew	Walisona Goro	Other	SC US
South West Shew	Walisona Goro	Rehabilitation and maintenance of water schemes	SC US
West Arsi		New water schemes development	CCF
West Arsi		Other	ENF
West Arsi	Arsi Negele	New water schemes development	GAA
West Arsi	Arsi Negele	Rehabilitation and maintenance of water schemes	GAA
West Arsi	Arsi Negele	Training	GAA
West Arsi	Shala	New Water Schemes development	CDI
West Arsi	Shala	Training	CDI
West Arsi	Shala	Water Tankering	CDI
West Harerge	Kuni	New water schemes development	GOAL
West Harerge	Boke	new water schemes development	IRC
West Harerge	Boke	Rehabilitation and maintenance of water schemes	IRC
West Harerge	Boke	Training	IRC
West Harerge	Darolebu	New water schemes development	GOAL
West Harerge	Darolebu	Rehabilitation and maintenance of water schemes	GOAL
West Harerge	Darolebu	Rehabilitation and maintenance of water schemes	GOAL
West Harerge	Darolebu	Training	GOAL
West Harerge	Habro	Water Tankering	WVI
West Harerge	Kuni	Other	CARE
West Harerge	Kuni	Rehabilitation and maintenance of water schemes	GOAL
West Harerge	Kuni	Rehabilitation and maintenance of water schemes	GOAL
West Harerge	Kuni	Training	GOAL
West Harerge	Mieso	new water schemes development	IRC
West Harerge	Mieso	Rehabilitation and maintenance of water schemes	IRC
West Harerge	Mieso	Training	IRC
West Harerge	Tulo	Other	WVE
West Shewa	Bako Tibe	New water schemes development	GAA
West Shewa	Bako Tibe	Training	GAA
West Shewa		New Water Schemes development	ORDA
West Shewa		Training	ORDA
		Other	HCS

Table 5-3: Status of assistance for water supply program at Afar region (Year 2008)

Zone	Wareda	Sub Sector	Organization
Zone 1	Chifra	Rehabilitation and maintenance of water schemes	GAA
Zone 1	Chifra	New water schemes development	ORDA
Zone 1	Chifra	New water schemes development	GAA
Zone 1	Chifra	Other	SC Norway
Zone 1	Chifra	Rehabilitation and maintenance of water schemes	ORDA

Zone	Wareda	Sub Sector	Organization
Zone 1	Chifra	Training	ORDA
Zone 1	Chifra	Training	GAA
Zone 1	Chifra	Water Tankering	GAA
Zone 1	Dubti	Training	ORDA
Zone 1	Elidar	Training	ORDA
Zone 1	Elidar	Water Tankering	APD
Zone 1	Mile	New water schemes development	ORDA
Zone 1	Mile	New water schemes development	GAA
Zone 1	Mile	Rehabilitation and maintenance of water schemes	ORDA
Zone 1	Mile	Rehabilitation and maintenance of water schemes	ORDA
Zone 1	Mile	Rehabilitation and maintenance of water schemes	GAA
Zone 1	Mile	Training	ORDA
Zone 1	Mile	Training	GAA
Zone 1	Mile	Water Tankering	GAA
Zone 2		other	OXFAM
Zone 2		Water Tankering	OXFAM
Zone 4	Aura	Rehabilitation and maintenance of water schemes	SC US
Zone 4	Ewa	Water Tankering	IR
Zone 4		New water schemes development	GAA
Zone 4		Rehabilitation and maintenance of water schemes	GAA
Zone 4		Training	GAA
Zone 4		Water Tankering	GAA
Zone 4	Aura	Other	SC Norway
Zone 4	Aura	Other	SC US
Zone 4	Aura	Rehabilitation and maintenance of water schemes	SC US
Zone 4	Aura	Training	ORDA
Zone 4	Ewa	New Water Schemes development	IR
Zone 4	Ewa	Other	SC Norway
Zone 4	Ewa	Other	SC US
Zone 4	Ewa	Rehabilitation and maintenance of water schemes	IR
Zone 4	Ewa	Rehabilitation and maintenance of water schemes	SC US
Zone 4	Ewa	Rehabilitation and maintenance of water schemes	SC US
Zone 4	Ewa	Training	IR
Zone 4	Gulina	Other	SC Norway
Zone 4	Gulina	Other	SC US
Zone 4	Gulina	Rehabilitation and maintenance of water schemes	SC US
Zone 4	Gulina	Rehabilitation and maintenance of water schemes	SC US
Zone 4	Teru	Training	ORDA
Zone 4	Yalo	Other	SC US
Zone 4	Yalo	Other	SC Norway
Zone 4	Yalo	Rehabilitation and maintenance of water schemes	SC US
Zone 4	Yalo	Rehabilitation and maintenance of water schemes	SC US
Zone 5	Artuma	Other	SC Norway
Zone 5	Dewe	Other	SC Norway
Zone 5	Fursi	Other	SC Norway
Zone 5	Simurobi Gele'alo	New water schemes development	Farm Africa
Zone 5	Telalak	Other	SC Norway

Table 5-4: Status of assistance for water supply program at Amhara region (Year 2008)

Zone	Wareda	Sub Sector	Organization
North	Gonder	New water schemes development	GAA
North	Gonder	Rehabilitation and maintenance of water schemes	GAA
North	Gonder	Training	GAA
North Gonder	Lay Armacheho	Other	NCA
North Wello		New water schemes development	GAA
North Wello		Rehabilitation and maintenance of water schemes	GAA
North Wello		Training	GAA
North Wello	Kobo	New Water Schemes development	ORDA
North Wello	Kobo	Rehabilitation and maintenance of water schemes	ORDA

Zone	Wareda	Sub Sector	Organization
North Wello	Kobo	Training	ORDA
South Gonder	Dera	Other	FHI
South Gonder	Esite	Other	CARE
South Gonder	Farta	Other	CARE
South Gonder	Kemekem	New water schemes development	Oxfam us
South Wello		New water schemes development	GAA
South Wello		Rehabilitation and maintenance of water schemes	GAA
South Wello		Training	GAA
South Wello	Ambasel	New Water Schemes development	ORDA
South Wello	Ambasel	Rehabilitation and maintenance of water schemes	ORDA
South Wello	Ambasel	Training	ORDA
South Wello	Debresina	New Water Schemes development	SC-UK
South Wello	Kutaber	New Water Schemes development	ORDA
South Wello	Kutaber	Rehabilitation and maintenance of water schemes	ORDA
South Wello	Kutaber	Training	ORDA
South Wello	Werebabu	New Water Schemes development	ORDA
South Wello	Werebabu	Rehabilitation and maintenance of water schemes	ORDA
South Wello	Werebabu	Training	ORDA
Wag Hamra	Dehana	Other	NCA
West Gojam	Bahir Dar Zuria	Other	FHI
West Gojam		Other	FHI
West Gojam	Achefer	Other	FHI

Table 5-5: Status of assistance for water supply program at Somali region (Year 2008)

Zone	Wareda	Sub Sector	Organization
Afder	Bare	New water schemes development	GAA
Afder	Bare	Rehabilitation and maintenance of water schemes	GAA
Afder	Bare	Training	GAA
Afder	Chereti	New Water Schemes development	IR
Afder	Chereti	New Water Schemes development	IR
Afder	Chereti	Rehabilitation and maintenance of water schemes	IR
Afder	Chereti	Rehabilitation and maintenance of water schemes	IR
Afder	Chereti	Rehabilitation and maintenance of water schemes	OXFAM
Afder	Chereti	Training	IR
Afder	Chereti	Training	IR
Afder	Chereti	Water Tankering	IR
Afder	Chereti	Water Tankering	IR
Afder	Dolobay	Rehabilitation and maintenance of water schemes	SC US
Afder	Elkere	New Water Schemes development	IR
Afder	Elkere	Rehabilitation and maintenance of water schemes	IR
Afder	Elkere	Rehabilitation and maintenance of water schemes	SC US
Afder	Elkere	Training	IR
Afder	Elkere	Water Tankering	IR
Afder	Goro Baqaqsa	Rehabilitation and maintenance of water schemes	OXFAM
Afder	Goro Baqaqsa	Rehabilitation and maintenance of water schemes	SRS
Afder	Guradamole	Rehabilitation and maintenance of water schemes	OXFAM
Afder	Guradamole	Rehabilitation and maintenance of water schemes	SRS
Afder	Hargele	New Water Schemes development	IR
Afder	Hargele	Rehabilitation and maintenance of water schemes	SC US
Afder	Hargele	Rehabilitation and maintenance of water schemes	IR
Afder	Hargele	Rehabilitation and maintenance of water schemes	OXFAM
Afder	Hargele	Training	IR
Afder	Hargele	Water Tankering	IR
Afder	Hargele	Water Tankering	SC US
Degehabur	Aware	New Water Schemes development	ORDA
Degehabur	Aware	New Water Schemes development	ORDA
Degehabur	Aware	New water schemes development	GAA

Zone	Wareda	Sub Sector	Organization
Degehabur	Aware	New water schemes development	GAA
Degehabur	Aware	Rehabilitation and maintenance of water schemes	ORDA
Degehabur	Aware	Rehabilitation and maintenance of water schemes	ORDA
Degehabur	Aware	Rehabilitation and maintenance of water schemes	GAA
Degehabur	Aware	Rehabilitation and maintenance of water schemes	GAA
Degehabur	Aware	Training	ORDA
Degehabur	Aware	Training	ORDA
Degehabur	Aware	Training	GAA
Degehabur	Aware	Training	GAA
Degehabur	Degehamedo	Other	MC
Degehabur	Misrak Gashamo	New Water Schemes development	ORDA
Degehabur	Misrak Gashamo	New water schemes development	GAA
Degehabur	Misrak Gashamo	Rehabilitation and maintenance of water schemes	ORDA
Degehabur	Misrak Gashamo	Rehabilitation and maintenance of water schemes	GAA
Degehabur	Misrak Gashamo	Training	ORDA
Degehabur	Misrak Gashamo	Training	GAA
Degehabur		Other	IRC
Degehabur		Other	IRC
Dire Dawa		Other	HCS
Fik		Rehabilitation and maintenance of water schemes	Concern
Fik		Water Tankering	SC-UK
Gode	Ferfer	New Water Schemes development	ORDA
Gode	Ferfer	New water schemes development	GAA
Gode	Ferfer	Rehabilitation and maintenance of water schemes	ORDA
Gode	Ferfer	Rehabilitation and maintenance of water schemes	GAA
Gode	Ferfer	Training	ORDA
Gode	Ferfer	Training	GAA
Gode	Gode	Rehabilitation and maintenance of water schemes	SC US
Gode	Gode	Water Tankering	CHF
Gode	Gode	Water Tankering	SC US
Gode	Gode	Water Tankering	SC US
Gode	Kelafo	New Water Schemes development	ORDA
Gode	Kelafo	New water schemes development	GAA
Gode	Kelafo	Other	CHF
Gode	Kelafo	Rehabilitation and maintenance of water schemes	ORDA
Gode	Kelafo	Rehabilitation and maintenance of water schemes	GAA
Gode	Kelafo	Training	ORDA
Gode	Kelafo	Training	CHF
Gode	Kelafo	Training	ADRA
Gode	Kelafo	Training	GAA
Gode	Kelafo	Water Tankering	CHF
Gode	Mustahil	Other	CHF
Gode	Mustahil	Training	CHF
Gode	Mustahil	Water Tankering	CHF
Gode		New water schemes development	ADRA
Gode		New water schemes development	CHF
Gode		Other	CHF
Gode		Rehabilitation and maintenance of water schemes	ADRA
Gode		Rehabilitation and maintenance of water schemes	CHF
Gode		Training	CHF
Gode		Training	ADRA
Gode		Water tankering	ADRA
Jijiga	Hareshen	Water Tankering	OXFAM
Korahe	Debeweyin	New Water Schemes development	SP
Korahe	Debeweyin	Rehabilitation and maintenance of water schemes	SP
Korahe	Debeweyin	Training	SP
Korahe	Debeweyin	Training	SP
Korahe	Debeweyin	Water Tankering	SP
Korahe	Kebridehar	New Water Schemes development	SP
Korahe	Kebridehar	Rehabilitation and maintenance of water schemes	SP

Zone	Wareda	Sub Sector	Organization
Korahe	Kebridehar	Training	SP
Korahe	Kebridehar	Training	SP
Korahe	Kebridehar	Water Tankering	ACF
Korahe	Kebridehar	Water Tankering	SP
Korahe	Shekosh	New Water Schemes development	SP
Korahe	Shekosh	Rehabilitation and maintenance of water schemes	SP
Korahe	Shekosh	Training	SP
Korahe	Shekosh	Training	SP
Korahe	Shekosh	Water Tankering	SP
Korahe	Shilabo	Water Water Tankering Somali	ACF
Korahe		Other	IRC
Korahe		Rehabilitation and maintenance of water schemes	ACF
Korahe		Rehabilitation and maintenance of water schemes	ACF
Korahe		Rehabilitation and maintenance of water schemes	ACF
Liben	Dolo Odo	New water schemes development	COOPI
Liben	Dolo Odo	Rehabilitation and maintenance of water schemes	CCM
Liben	Dolo Odo	Rehabilitation and maintenance of water schemes	COOPI
Liben	Dolo Odo	Rehabilitation and maintenance of water schemes	SC US
Liben	Dolo Odo	Training	CCM
Liben	Dolo Odo	Training	COOPI
Liben	Dolo Odo	Water Tankering	CCM
Liben	Filtu	New water schemes development	COOPI
Liben	Filtu	Rehabilitation and maintenance of water schemes	CCM
Liben	Filtu	Rehabilitation and maintenance of water schemes	COOPI
Liben	Filtu	Rehabilitation and maintenance of water schemes	SC US
Liben	Filtu	Training	CCM
Liben	Filtu	Training	COOPI
Liben	Filtu	Water Tankering	CCM
Liben	Hudat	New water schemes development	COOPI
Liben	Hudat	New water schemes development	NCA
Liben	Hudat	Rehabilitation and maintenance of water schemes	COOPI
Liben	Hudat	Rehabilitation and maintenance of water schemes	SC US
Liben	Hudat	Training	COOPI
Liben	Moyale	New water schemes development	COOPI
Liben	Moyale	Rehabilitation and maintenance of water schemes	COOPI
Liben	Moyale	Rehabilitation and maintenance of water schemes	SC US
Liben	Moyale	Training	COOPI
Liben		New water schemes development	COOPI
Liben		New water schemes development	NCA
Liben		Rehabilitation and maintenance of water schemes	COOPI
Liben		Training	COOPI
Liben		Water Tankering	SC US
Warder		Rehabilitation and maintenance of water schemes	ACF
Warder		Rehabilitation and maintenance of water schemes	ACF
Warder	Warder	Water Tankering	ACF
		Rehabilitation and maintenance of water schemes	ZRC
		Rehabilitation and maintenance of water schemes	ZRC
		Rehabilitation and maintenance of water schemes	ZRC
		Water Tankering	ZRC

Table 5-6: Status of assistance for water supply program at SNNP region (Year 2008)

Zone	Wareda	Sub Sector	Organization
Amaro SW	Amaro	Other	NCA
Gurage		Water tankering	ADRA
Gurage	Sodo	New water schemes development	GAA
Gurage	Sodo	Rehabilitation and maintenance of water schemes	GAA
Gurage	Sodo	Training	GAA
Selti		New Water Schemes development	ORDA

Zone	Wareda	Sub Sector	Organization
Selti		Rehabilitation and maintenance of water schemes	ORDA
Selti		Training	ORDA
Sidama	Hulla	Rehabilitation and maintenance of water schemes	IRC
Sidama	Hulla	Water tankering	IRC
Sidama	Aroresa	New water schemes development	IRC
Sidama	Aroresa	Rehabilitation and maintenance of water schemes	IRC
Sidama	Aroresa	Water tankering	IRC
Sidama	Boricha	Rehabilitation and maintenance of water schemes	GOAL
Sidama	Dara	New water schemes development	IRC
Sidama	Dara	Rehabilitation and maintenance of water schemes	IRC
Sidama	Dara	Water tankering	IRC
Sidama	Hulla	New water schemes development	IRC
Sidama	Shebedino	Rehabilitation and maintenance of water schemes	GOAL
South Omo		New Water Schemes development	AFD
South Omo		Rehabilitation and maintenance of water schemes	AFD
South Omo		Training	AFD
South Omo	Hamer	New water schemes development	Farm Africa
Wolayita	Damot Weyde	Rehabilitation and maintenance of water schemes	GOAL
Wolayita	Damot Gale	Rehabilitation and maintenance of water schemes	GOAL
		Rehabilitation and maintenance of water schemes	SP
		Training	SP

(2) Baseline survey results

1) Child mortality rate (by individual region)

Table 5-7: Child mortality rate

Region	Neonatal mortality (in 1,000)	Under-five mortality (in 1,000)
	(age<1mo.)	(1mo<age<5yr)
Tigray	40	66
Afar	33	90
Amhara	50	104
Oromiya	40	82
Somali	27	66
SNNP	36	106

Source: "Ethiopia Demographic and Health Survey 2005",
Central Statistical Agency, Addis Ababa, Ethiopia (Sep. 2006),
ORC Macro Calverton, Maryland, USA

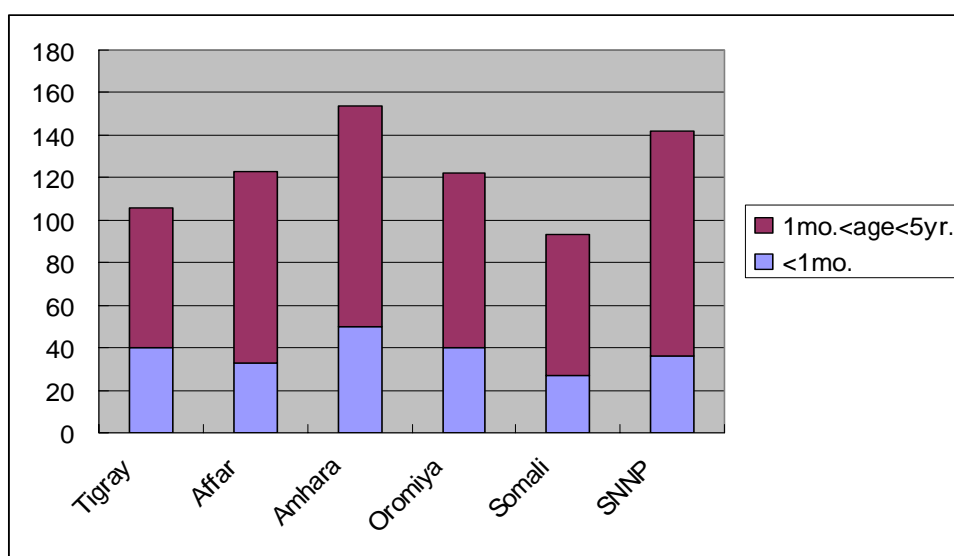


Figure 5-1: Child mortality figures

2) Type of drinking water source

Table 5-8: Type of drinking water source by individual region

Region	Rural Area				Urban Area			
	Own Tap	Well, Spring	Public Tap (bono)	Others	Own Tap	Well, Spring	Public Tap (bono)	Others
Tigray	1	23	19	57	23	6	68	3
Afar	1	6	20	73	17	1	60	22
Amhara	1	14	5	80	20	4	69	8
Oromiya	1	12	11	76	18	5	67	9
Somali	0	8	13	79	8	4	65	23
SNNPR	1	16	13	70	17	8	59	16

Source: "Ethiopia Demographic and Health Survey 2005", Central Statistical Agency, Addis Ababa, Ethiopia

(Sep. 2006), ORC Macro Calverton, Maryland, USA

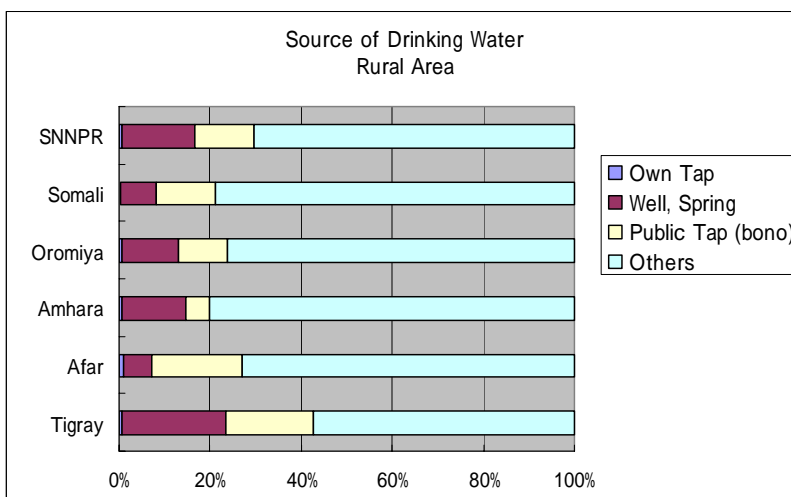


Figure 5-2: Source of drinking water (Rural area)

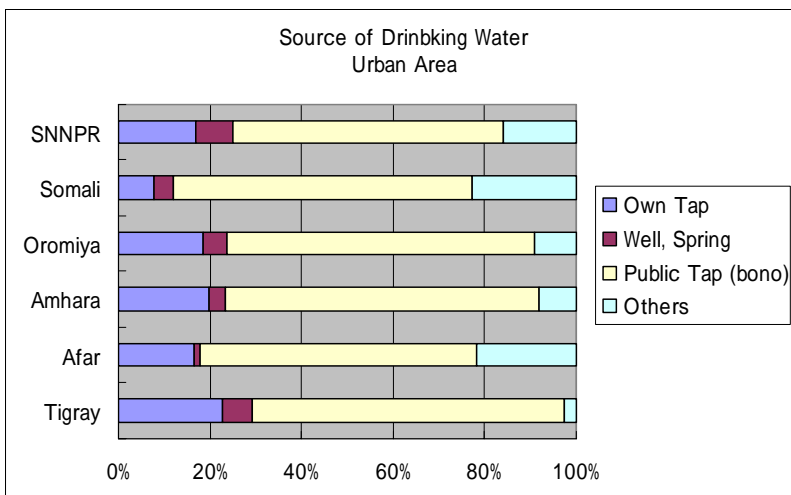


Figure 5-3: Source of drinking water (Urban area)

3) Water borne disease rate in individual regions

Table 5-9: TIGRAY

Rank	Diagnosis	No. of all Cases
1	Acute upper Respiratory Infection	89,535
2	Unspecified Malaria	75,680
3	Intestinal Parasites others	44,281
4	Gastritis and Duodenitis	36,715
5	Skin Infection	35,797
6	Other Helminthes	35,495
7	Amoebiasis	23,522
8	Eye Infection	21,556
9	Bronchopneumonia	21,096
10	Accidents	21,030
Total of Leading Diseases		404,707

Table 5-10: OROMIA

Rank	Diagnosis	No. of all Cases
1	Acute Upper Respiratory	113,058
2	Otitis media and mastoiditis	97,598
3	Gastritis and Duodenitis	88,442
4	Homicide and Injury Purposely Inflicted by other person	86,129
5	Other Helminthes	82,097
6	Bronchopneumonia	70,055
7	All other Diseases of Genito-Urinary System	62,344
8	Primary a typical other and unspecified pneumonia	56,642
9	Other Unspecified Malaria	54,513
10	Infection of Skin and Subcutaneous tissue	53,113
Total of Leading Diseases		763,991
Total of other Diseases		341,658
Total Causes		1,105,649

Table 5-11: AFAR

Rank	Diagnosis	No. of all Cases
1	Malaria	113,145
2	Acute upper Respiratory Infection	9,771
3	All other Infective and parasitic Diseases	5,171
4	All other Respiratory Disease	4,219
5	Gastro enteritis and colitis	4,167
6	Other helminthes	3,444
7	Infection of skin and subcutaneous tissue	3,247
8	Otitis media and mastoiditis	2,915
9	Amoebiasis	2,634
10	Unspecified Pneumonia	2,461
Total of Leading Diseases		151,174
Total of other Diseases		48,550
Total Causes of Morbidity		199,724

Table 5-12: AMHARA

Rank	Diagnosis	No. of all Cases
1	All forms of Malaria	169,229
2	Pneumonia	100,389
3	Intestinal Parasites	94,991
4	All other Respiratory Diseases	71,082
5	Skin Infection	64,230
6	Diarrhea	48,880
7	Gastritis	47,502
8	Rheumatism	45,129
9	Eye diseases	43,009
10	URI	38,166
Total -of Leading Diseases		722,607
Total -of other Diseases		182,592
Total Causes of Morbidity		905,199

Table 5-13: SOMALI

Rank	Diagnosis	No. of all Cases
	A.U.R.I(Acute Upper Respiratory tract	
1	Infection	62,696
2	All form of pneumonia	56,589
3	All forms of Malaria	50,058
4	Gastro-enterities	39,468

Rank	Diagnosis	No. of all Cases
5	Anemia	31,676
6	G.U.T.I.(GenitoUrinary Truct Infection)	24,936
7	Gastritis	24,542
8	Dysentery	23,568
9	Intestinal Parasites	10,744
10	Skin Diseases	10,688
Total of Leading Diseases		334,965

Table 5-14: SNNP

Rank	Diagnosis	No. of all Cases
1	Malaria All Types	690,991
2	Pneumonia	277,732
3	Helimintosys (Excluding Guinea Worm 042.3)	226,748
4	TB All Types	186,827
5	Upper Respiratory Infection	165,429
6	Accident	131,269
7	Gastritis and Duodenities	130,570
8	All other diseases of genito-urinary system	88,370
9	Infection of skin and subcutaneous Tissue	88,007
10	Typhoid	77,001
Total of leading diseases		2,062,944
Total of other diseases		568,709
Total causes of Morbidity		2,631,653

Source: Federal Ministry of Health (2000)

4) Formulation of Index

Expected child death toll due to acute watery diarrhoea (AWD) including cholera was calculated based on the statistics data of World Health Organization (WHO) 2009 and 2011. Expected childhood under-five mortality figures are as below.

Table 5-15: Expected under-five mortality due to acute watery diarrhea

	Tigray	Afar	Amhara	Oromia	Somali	SNNP
2009	16,198	3,688	59,082	115,163	11,540	60,674
2011	16,693	3,781	59,939	119,559	11,908	62,989

Source: Statistics data 2008 and 2009 by WHO, Census 2007

Child mortality of under-five year olds caused by acute diarrhoea is considered an index that measures the effect of this investigation. The reason for observing the child mortality rate of under-five year olds is because it is established as a general index that shows the standard of living environment in which a small child with weak resistance tends to be influenced by water supply environment etc., and which includes the water supply situation of an area. On the other hand, the reason for not adopting the infant mortality rate, the number of newborns dying under one year of age, is because it has a high possibility of being influenced by other factors, such as delivery environment and a nutrition (mother's milk); and it is recognized as a general residents' environmental index.

Table 5-16: Child mortality rate in 2009 in individual region

Region	Year 2009				
	Population (A)	Child population (B)	Percentage of child population against total population (C) = (A) × (B)	Child mortality due to AWD (D)	Percentage of child mortality due to AWD against child population (E)=(D)/(B)
Tigray	4,495,716	656,375	14.60%	16,198	2.47%
Afar	1,465,018	149,432	10.20%	3,688	2.47%
Amhara	17,734,019	2,394,093	13.50%	59,082	2.47%
Oromia	28,454,770	4,666,582	16.40%	115,163	2.47%
Somali	4,630,014	467,631	10.10%	11,540	2.47%
SNNP	15,760,301	2,458,607	15.60%	60,674	2.47%
Total	72,539,837	10,792,720	14.88%	266,346	2.47%

Note: Child population is that under five (5) years old

Table 5-17: Expected child mortality rate in 2011 in individual regions

Region	Year 2011 expected				
	Population (A)	Child population (B)	Percentage of child population against total population (C) = (A) × (B)	Child mortality due to AWD (D)	Percentage of child mortality due to AWD against child population (E)=(D)/(B)
Tigray	4,676,976	682,838	14.60%	16,559	2.43%
Afar	1,518,944	154,932	10.20%	3,757	2.43%
Amhara	18,253,982	2,464,288	13.50%	59,760	2.43%
Oromia	29,751,070	4,879,175	16.40%	118,321	2.43%
Somali	4,820,880	486,909	10.10%	11,808	2.43%
SNNP	16,478,070	2,570,579	15.60%	62,337	2.43%
Total	75,499,922	11,238,722	14.89%	272,542	2.43%

Table 5-18: Project effect

Region	Effectiveness by the project				Total	
	Project beneficiary (F)	Child population in beneficiary (G)=(F)x(C)	Percentage of child mortality due to AWD against child population (E)	Avoidable child mortality due to AWD (H)=(G)x(E)	Child ,mortality due to AWD (I)=(D)-(H)	Percentage of child mortality due to AWD against child population (J)=(I)/ (B)
Tigray	291,757	42,597	2.43%	1,033	15,526	2.27%
Afar	180,933	18,455	2.43%	448	3,310	2.14%
Amhara	690,798	93,258	2.43%	2,262	57,498	2.33%
Oromia	229,500	37,638	2.43%	913	117,409	2.41%
Somali	1,032,046	104,237	2.43%	2,528	9,280	1.91%
SNNP	492,801	76,877	2.43%	1,864	60,473	2.35%
Total	2,917,835	373,061	2.43%	9,047	263,495	2.34%

(3) Results of social condition survey in SNNPR

Table 5-19: Results of Social survey (Butajira village)

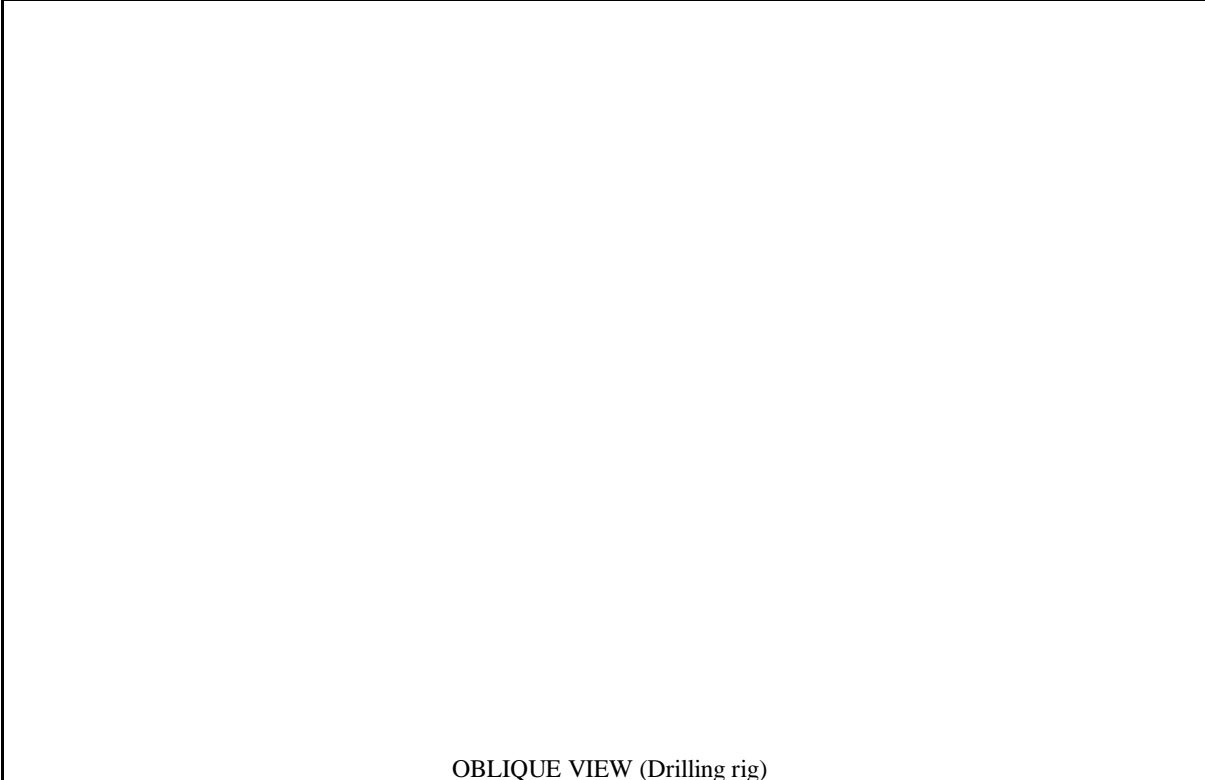
Woreda	Meskan	Mareko
Name of Village/ Town	Inceno Town	Bida Faka Kebele
<i>Questions for the government</i>		
1. Number of beneficiary targeted households	2,500	540
2. Number of expected beneficiary population	15,000 (within the town) 27,000 (outside of the town) 42,000 (total)	2,704
3. Ethnic group	Guragha (90%) Mareko (6%) Amhara (3%)	Mareko (90%) Oromo (10%)
4. Religion	Muslim (90%) Orthodox protestant (8%) Others (2%)	Muslim (Over 90%)
5. Management body of water	5 Water committees	1 VWC (7members)
<i>Questions for head of Household (H/H)</i>		
<i>2. Economic aspect</i>		
- Occupation	Farmers 59%, Merchants 29%, Others 35%	Farmer 100%
- Average annual income	8200 Birr	3972 Birr
<i>3. Water supply aspect</i>		
- Major source	Deep Well 57%, Hand Dug Well 43%	Deep Well 100%
- Average time to reach the water source /single trip/	14 minutes/trip (5.5 times)	5.8 hours (1.7 times)
- Major problem related to water supply	Deep well: Distance Hand dug well: Water quality	Time consuming, High water tariff
- Average water payment rate	1.5 cents/(25 liter)	35 Birr (25/liter)
- Average consumption rate of water	170 liter/day	283 liter/day
<i>4. Health and sanitation</i>		
- Common disease	Malaria, Diarrhea	Malaria, Ambeba, Fluoride Poisoning
Date of survey:	May 6 th , 2009	May 7 th , 2009
Government Representative	Mr. Awol Hamza Head of Woreda Resources Development Office Tel: 0916 839746	Mr. Fanthun Mitiku Head of Wareda Water Resources Development Office Tel: 0913 719557
Cooperated official in the field	Mr. Jemar Mohammed Tel: 0916 839015	Mr. Ashenafi Ketro

Note: Prevailing fluoride poisoning in Bida Faka village is conspicuous. Some villagers are developing liver problems, suspiciously, due to the fluoride contaminated water, and almost all villagers have teeth decay.

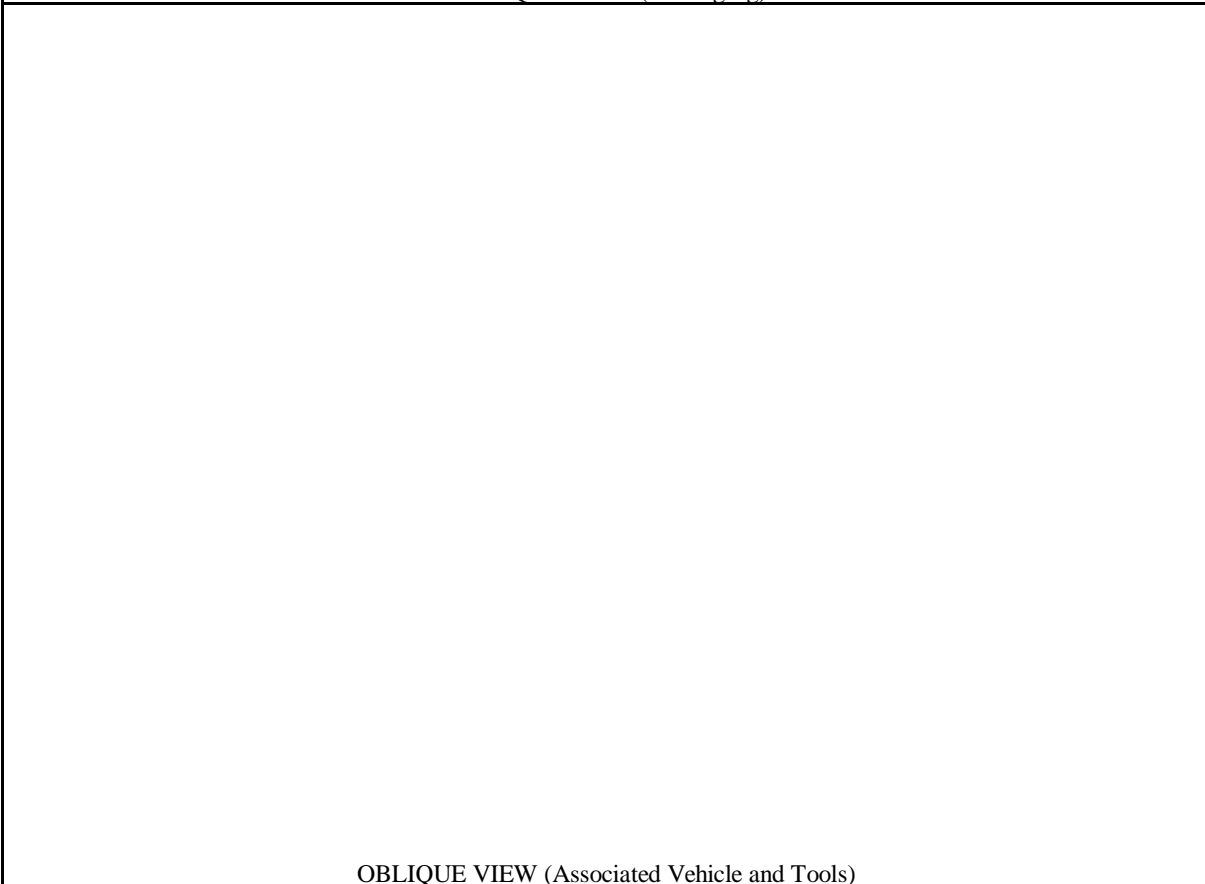
DRILLING RIG OPERATION AND MAINTENANCE RECORD (For Photo Frame)

**Please attach photos to show the current condition*

Month



OBLIQUE VIEW (Drilling rig)

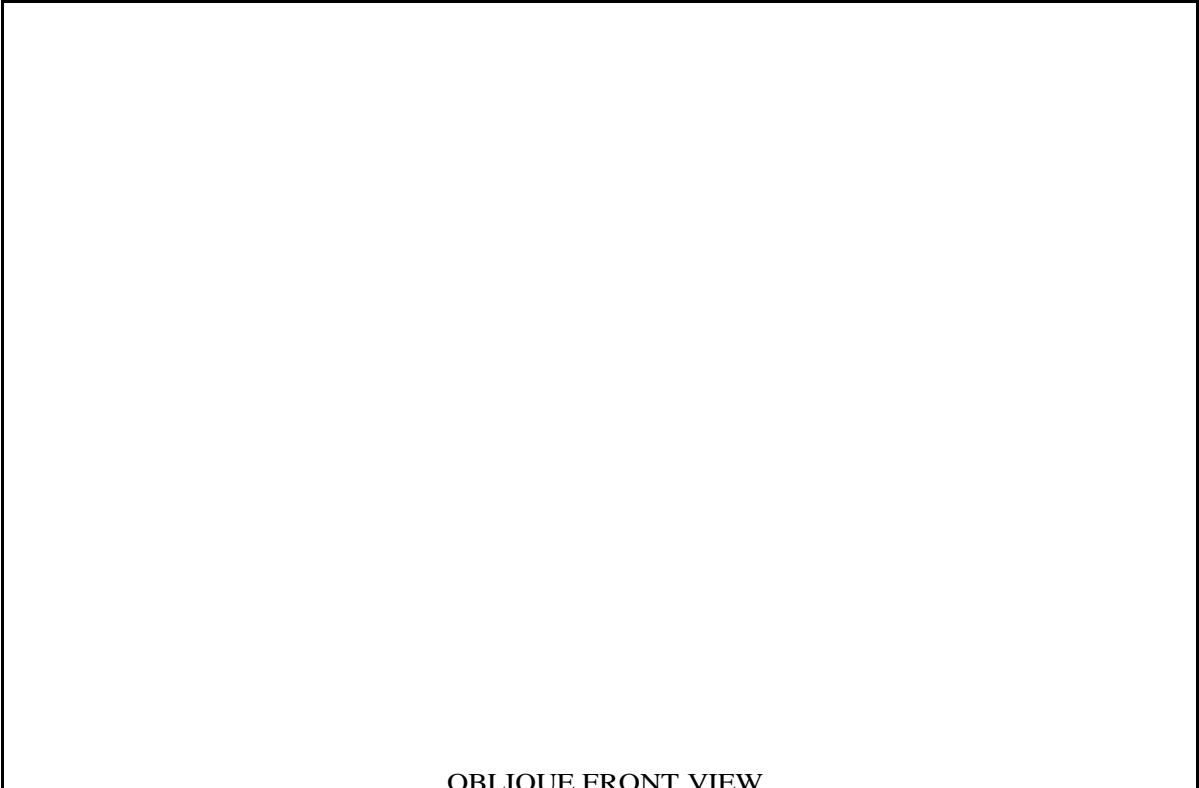


OBLIQUE VIEW (Associated Vehicle and Tools)

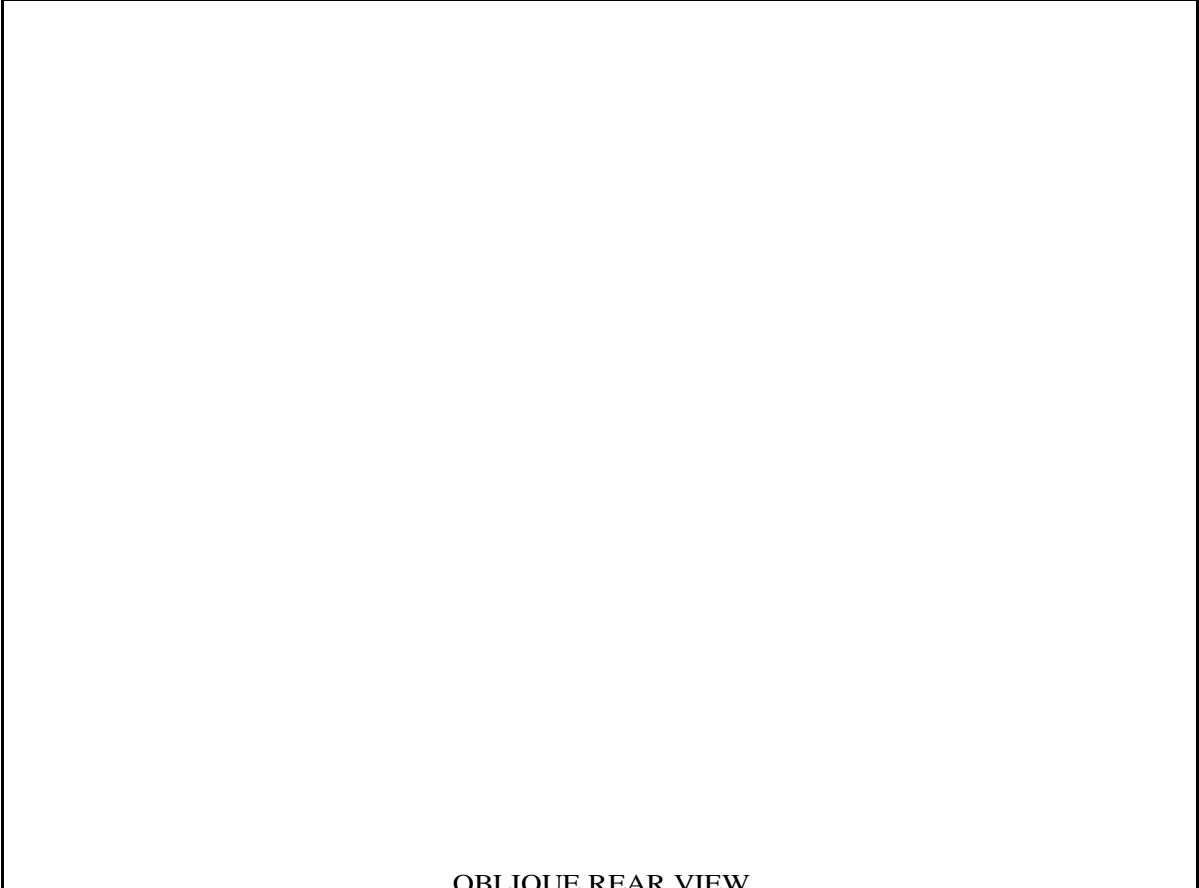
VEHICLE OPERATION AND MAINTENANCE RECORD (For Photo Frame)

**Please attach photos to show the current condition*

Month



OBLIQUE FRONT VIEW

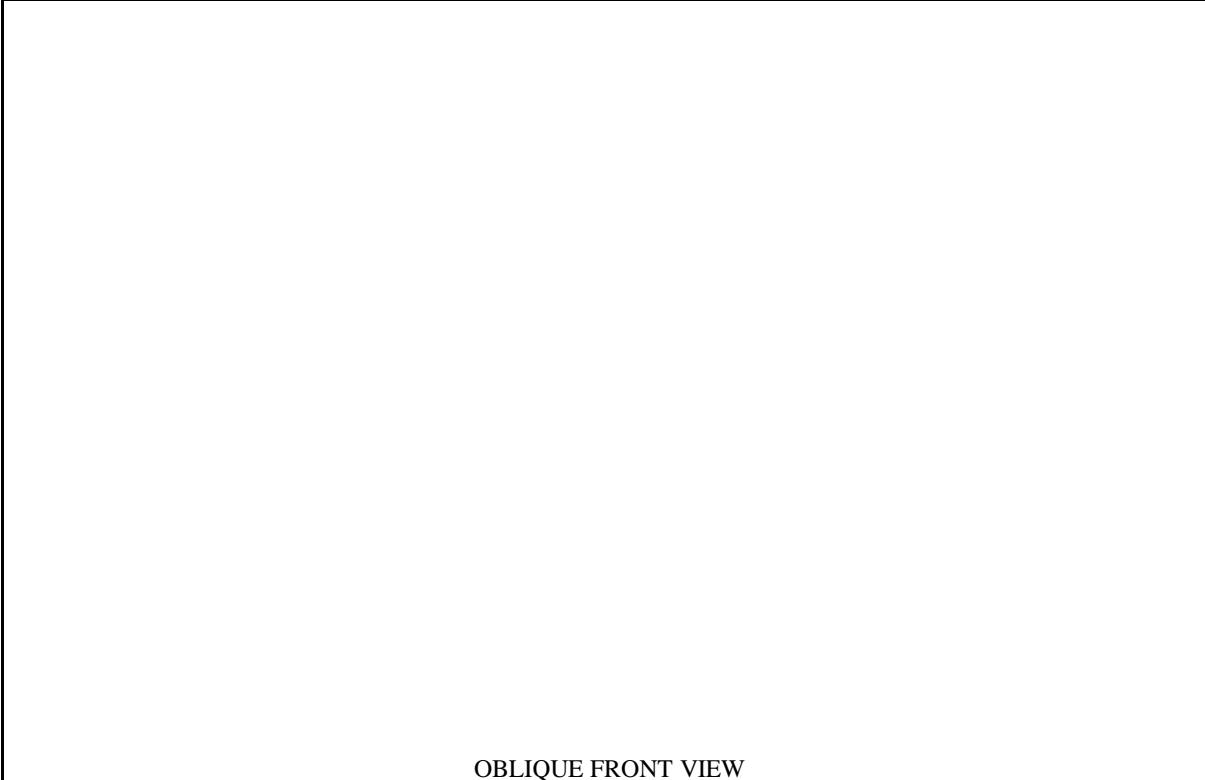


OBLIQUE REAR VIEW

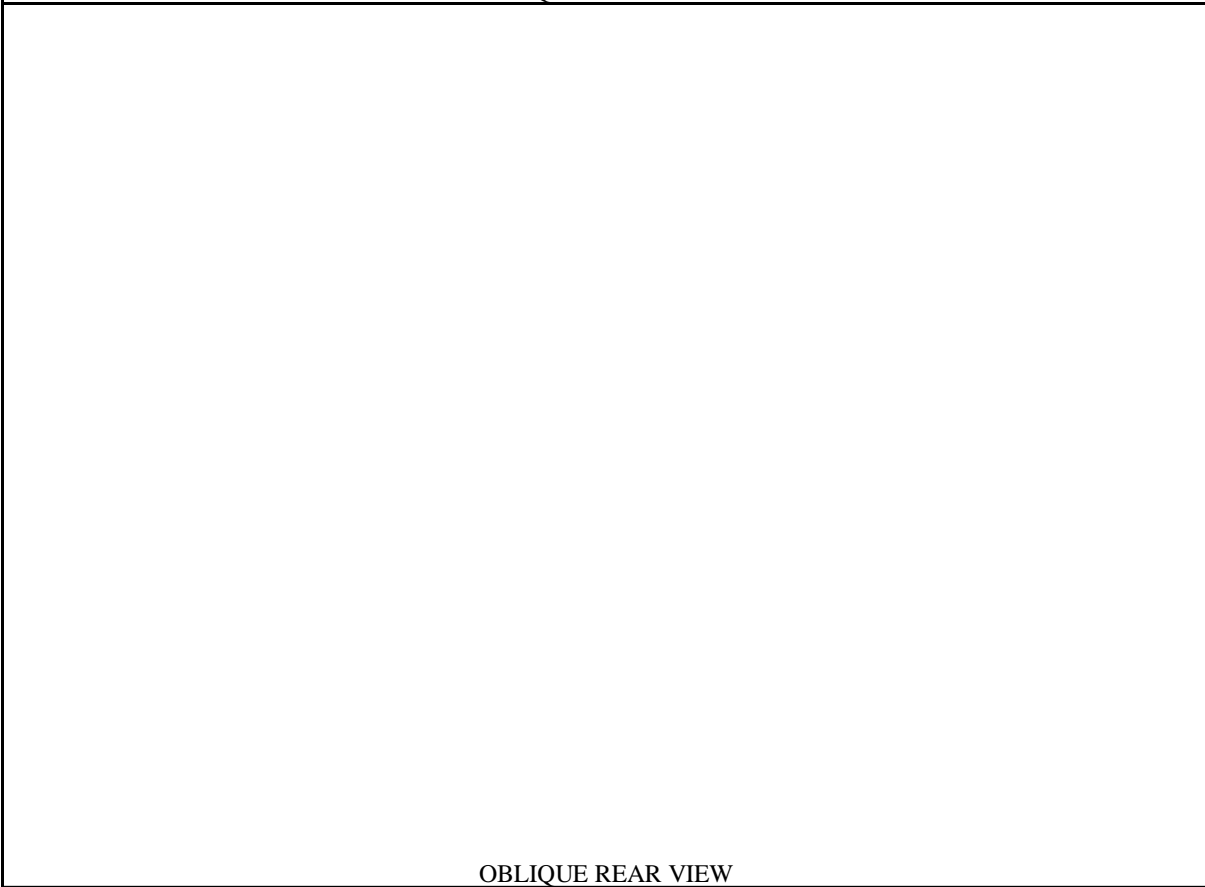
EQUIPMENT OPERATION AND MAINTENANCE RECORD (For Photo Frame)

**Please attach photos to show the current condition*

Month



OBLIQUE FRONT VIEW



OBLIQUE REAR VIEW

