

添 付 資 料

添付資料- 1	調査団員名簿
添付資料- 2	調査日程
添付資料- 3	関係者リスト
添付資料- 4	当該国の社会・経済事情
添付資料- 5	討議議事録
添付資料- 6	基本設計概要表
添付資料- 7	基本設計図面集
添付資料- 8	物理探査結果
添付資料- 9	社会経済調査結果
添付資料-10	収集資料リスト

添付資料- 1 調査団員名簿

<現地調査>

氏 名	担 当	所属・役職	備 考
1. 松浦 信一	総 括	国際協力事業団 ケニア国事務所 次長	2/17～2/20
2. 宇野 純子	計画管理	国際協力事業団 無償資金協力部業務第1課	2/11～2/23
3. 由本 聡一郎	業務主任/援助情勢調査	(株)ハツフィック コンサルタンツ インタナショナル 農業開発部 プロジェクト部長	2/11～3/22
4. 濱田 巖	地下水開発計画/施設計画	(株)ハツフィック コンサルタンツ インタナショナル 農業開発部	2/11～3/22
5. 佐々木 純一	水理地質/物理探査	三菱マテリアル資源開発株式会社 資源本部 地熱部 副部長	2/21～3/22
6. 菅原 公平	物理探査	三菱マテリアル資源開発株式会社 環境本部 環境調査部	2/21～3/22
7. 森川 直美	社会状況調査 /運営維持管理計画	(株)ハツフィック コンサルタンツ インタナショナル 農業開発部	2/11～3/22
8. 渡辺 紘二郎	積算・調達管理計画 /機材計画	(株)ハツフィック コンサルタンツ インタナショナル 環境・水資源部	2/28～3/22
9. 澤田 留美	業務調整	(株)ハツフィック コンサルタンツ インタナショナル 農業開発部	2/11～3/22

<基本設計概要説>

氏 名	担 当	所属・役職	備 考
1. 松浦 信一	総 括	国際協力事業団 ケニア国事務所 次長	8/4～8/10
2. 宇野 純子	計画管理	国際協力事業団 無償資金協力部業務第1課	8/2～8/10
3. 由本 聡一郎	業務主任/援助情勢調査	(株)ハツフィック コンサルタンツ インタナショナル 農業開発部 プロジェクト部長	7/30～8/10
4. 濱田 巖	地下水開発計画/施設計画	(株)ハツフィック コンサルタンツ インタナショナル 農業開発部	7/30～8/10
5. 森川 直美	社会状況調査 /運営維持管理計画	(株)ハツフィック コンサルタンツ インタナショナル 農業開発部	7/30～8/10

添付資料- 2 調査日程

<現地調査>

日時	松浦	宇野	由本	澤田	森川	濱田	佐々木	菅原	渡辺		
2月11日(火)		成田-ロンドン	成田-アムステルダム								
2月12日(水)		アムステルダム(ロンドン) ナイロビ, JICA ケニア事務所表敬									
2月13日(木)		ナイロビ-エンテヘ, 日本大使館, JOCV、外務省(MFA), 経済財務省(MFPED), and 水環境省(MWLE)表敬訪問、青年海外協力隊・村落開発隊員からの情報収集(JOCV事務所)									
2月14日(金)		水環境省および DWD との協議									
2月15日(土)		サイト視察(第1次地方給水計画: Mpigi, Kiboga, Mubende)									
2月16日(日)											
2月17日(月)		ナイロビ-エンテヘ	DWD との協議								
2月18日(火)	DWD との協議										
2月19日(水)	ドナーコーディネーションミーティング (スウェーデン大使館) DWD との協議					資料収集					
2月20日(木)	ミニッツ署名, 日本大使館および JOCV 事務所報告, エンテヘ-ナイロビ	ミニッツ署名, 日本大使館及び JOCV 事務所報告									
2月21日(金)		エンテヘ-ナイロビ, JICA ケニア事務所への報告, ナイロビ-ロンドン	DWD との打ち合わせ, 他ドナーおよび NGO からの資料・情報収集				成田-アムステルダム				
2月22日(土)		ロンドン-成田	現地調査準備作業				アムステルダム-ナイロビ-エンテヘ				
2月23日(日)		団内打ち合わせ						物理探査調査			
2月24日(月)		他ドナー、NGO からの資料・情報収集	資料収集	現地踏査						DWD、日本大使館、JOCV 事務所表敬、物理探査調査準備作業	
2月25日(火)											
2月26日(水)											
2月27日(木)			村落調査準備作業								
2月28日(金)											
3月1日(土)			他ドナー、NGO からの資料・情報収集							現地踏査	
3月2日(日)		現地調査報告書作成準備									
3月3日(月)		DWD との打ち合わせ									
3月4日(火)		現地踏査									
3月5日(水)		現地踏査	UWASNET ワークショップ								
3月6日(木)											
3月7日(金)		現地踏査		現地踏査		現地踏査					
3月8日(土)		現地踏査				積算・市場調査					
3月9日(日)											
3月10日(月)											
3月11日(火)		ドナーコーディネーションミーティング (日本大使館)									
3月12日(水)											
3月13日(木)											
3月14日(金)		現地踏査		現地踏査						積算・市場調査	
3月15日(土)		調査結果の整理・分析									
3月16日(日)		調査結果の整理・分析		調査結果の整理・分析							
3月17日(月)											
3月18日(火)	DWD との協議	調査結果の整理・分析				補足資料収集					
3月19日(水)	DWD との協議と T/N サイン。日本大使館、JOCV 報告										
3月20日(木)	エンテヘ-ナイロビ、JICA ケニア事務所報告、ナイロビ-アムステルダム						エンテヘ-ナイロビ-アムステルダム				
3月21日(金)	アムステルダム着、発										
3月22日(土)	成田着										

<基本設計概要説明>

日 時	松 浦	宇 野	由 本	濱 田	森 川
7月30日 (水)			成田-ロンドン		
7月31日 (木)			ロンドン-ナイロビ-エンテベ		
8月1日 (金)			事前協議・説明		
8月2日 (土)		ロンドン発	現地調査		
8月3日 (日)		ナイロビ着	現地調査		
8月4日 (月)		JICA ケニア事務所 表敬 ナイロビ-エンテベ	事前協議・説明		
8月5日 (火)			日本大使館表敬、財務・計画・経済開発省表敬、外務省表敬、水・土地・環境省表敬		
8月6日 (水)	ナイロビ-エンテベ DWD、水・土地・環境 省、協議・説明	DWD、水・土地・環境省、協議・説明			
8月7日 (木)	DWD、水・土地・環境省、協議・説明、ドナー会議開催				
8月8日 (金)	ミニッツ調印、日本 大使館挨拶・報告 エンテベ-ナイロビ	ミニッツ調印、日本大使館挨拶・報告 エンテベ-ナイロビ-ロンドン			
8月9日 (土)		ロンドン着、ロンドン発	ロンドン着、ロンドン発		
8月10日 (日)		成田着	成田着		

添付資料- 3 関係者リスト

(1) 「ウ」国側関係者

Ministry of foreign Affairs (MFA、外務省)

- Mr. Eharles W.G. Wagaba Ambassador of Head / Asia & Pacific Dept.
- Mr. Sekindi Abdunur 3rd Secretary
- AMB. J. S. Bakayana-Kityo Ag. Permanent Secretary

Ministry of Finance, Planning and economic Development (MFPDE、大蔵計画省)

- Mr. Patric Ocaïlap Commissioner, Deputy National Authorising Officer, Aid Liaison Department

Ministry of Finance, Planning and Economic Development (MFPED、財務・計画・経済省)

- Mr. Oode Obella Assistant Commissioner of Aid Liaison Department
- Ms. Emmanuel Katwe Senior Finance Officer of Bilateral Division

Ministry of Health (MH、保健省)

- Mr. Paul Luyima Assistant Commissioner of Health Services

Ministry of Gender, Labour and Social Development、ジェンダー・労働・社会開発省)

- Ms. Jane Mpagi Director of Gender and Community Development
- Ms. Beatue Ayllcow Water Environment and Sanitation Liaison Officer

Ministry of Water, Land and Environment (MWLE、水・国土・環境省)

- Mr. Bezalel. K. Kabanda Permanent Secretary
- Mrs. Edith Kateme-kasajja Ag Commissioner Planning and Quality Assurance Dept.

Department of Meteorology, (気象局) MWLE

- Mr. Eliphaz Bazira Assitant Commissioner for Meteorology
- Mr. Lubega F. Metrologist / Data Process Manager

Directorate of Water Development (DWD、水開発局), MWLE

- Mr. Patrick Kahangire Director
- Mr. Sottie L.M. Bomukama Commissioner
- Mr. Mugisha Shillingi Assistant Commissioner (Rural Water Supply)
- Mr. Parata Roy Luke Principal Economist (M&E) of Planning & Quality Assurance
- Mr. Aaron M. Kabirizi PE-Development (RWS)
- Mr. Moses Kagimu Gava Senior Quality Assurance Officer
- Mr. Callist Tindimugaya Principal hydrogeolist / Head of Hydrogeology Section
- Mr. Eva Lwanga Hydrogeologist
- Mr. Musoth Reonard Hydrogeologist (Data)
- Mr. Philip Soga Hydrogeologist (Data)
- Mr. Jackson Kitamirike Laboratory Manage
- Mr. Patrick Okuni Senior Water officer of Planning & Quality Assurance
- Mr. Ian Arebahona Senior Engineer of Planning
- Ms. Joyce Achan Monitoring Officer
- Mr. Watson Wakooli Statistician
- Mr. Kiiza Simon Data Manager Reform of the Urban Water Planner
- Mr. Kalema Joseph Senior Social Scientist
- Ms. Firmina Acuba Ajonya Community Development Specialist
- Mr. Kobusinge Marguret Senior Officer of Water Sanitation
- Ms. Julian Kyomuhangi Principal Health Inspector
- Mr. Kaweesa Ronnie Hydrogeologist
- Mr. Erisa Kyeyune Hydrogeologist / Geophysist
- Mr. Enangu M. Assistant Drilling Specialist

- Ms. Esther Okoer Hydorogeologist / Geophysist
- Mr. Stanley Watenga Engineer / Tem Leader (TSU5)
- Mr. Innocent Nknyahager Engineer (TSU7)

Water Resources Management Dept. (水資源管理局), DWD

- Mr. Nsubuga Senfuma Commissioner
- Mr. Florence G. Adongo Assitant Commissioner Water Quality
- Mr. Edward Martin Rwarinda Water Officer permits Registry
- Mr. Kyosingira W. Fred Principal Hydlogist
- Mr. Mugabe Robert Senior Analyst

Masaka District Water Office (マサカ県水事務所)

- Mr. Jjuuko Ewas Water Officer
- Mr. Namutinda Charles County Water Officer
- Ms. Mbule Ellen Assistant Community Officer
- Mr. Lubega John Muwonge Head of Water Dep.
- Mr. Kawalia Isa Assistant District Water Officer (Social Mobilization)

Mukono District Water Office (ムコノ県水事務所)

- Mr. Ronald Kato Kayizzi Senior Water Officer
- Mr. Peter Wasswa Kasumba Assistant Water Officer
- Mr. James Kawahe Assistand Water Officer
- Mr. Kalule James County Water Officer
- Mr. Kavuma Vibcent County Water Officer
- Ms. Buteraba Eunice Water Officer in Charge Mobilization
- Mr. Peter Wasswa Kasumba Water Officer in Charge Hygiene & Sanitation

Kayunga District Water Office (カユンガ県水事務所)

- Mr. Bwanika Godfrey Chief Administrative Officer
- Mr. Ssebbaale Willoam Water Officer and OC in Charge water supply
- Mr. Habaasa Francis Assistant Water Officer in charge Sanitation
- Mr. Mulindwa G Assistant Water Officer in charge Mobilization
- Mr. Srebagaka Henry Community Development Officer

Mupigi District Water Office (ムピギ県水事務所)

- Mr. Katumwa Simon District Water Engineer
- 本田 哲也 青年海外協力隊員(村落開発普及員)

Uganda Bureau of Statistics (UBOS、ウガンダ統計局)

- Mr. Nalukenge Rose Library Assistant

(2) 日本側関係者

在ウガンダ国日本大使館

- 三木 達也 公使
- 森原 克樹 二等書記官
- Charies-Martin Jjuuko Programme Officer

JICA ケニア事務所

- 大塚 正明 所長
- 松浦 信一 次長
- 見宮 美早 所員
- 中村 展子 広域企画調査員

JOCV ウガンダ事務所

- 津川 智明 調整員
- 橋口 三千代 調整員
- 住田 康雄 Program Officer

(3) その他

スウェーデン国際開発庁(SIDA)

- Mr. Finn Forsberg First secretary of Swedish Embassy
- Mr. Maureen K Nahwera Programme Assistant
- Mr. Gunnar Settergran Team Leader of Uganda-Sweden Rural Water and Sanitation Program
- Ms. Maritza Rivera Hifab International AB, Project Manager
- Mr. Gertrude Ngabirano Sempira Programme Officer (Lake Victoria Project)
- Dr. Wasswa Matovu Joseph Local Expert Financial System Development Programme
- Mr. Thomas Schuppius Programme Advisor
Financial System Development Programme

デンマーク国際開発機構 (DANIDA)

- Mr. Samuel Mutono Programme Officer
- Mr. John Pinfold Expert in DWD

欧州連合 (EU)

- Ms. Dimitro Savvidou ALAT Position in E

英国国際開発省 (DFID)

- Mr. Simon Kenny Programme Manager, NWS SP

オーストリア開発庁(ADA)

- Ms. Hans Schattauer

国連児童基金 (UNICEF)

- Ms. Kiwe L. Sebunya Project Officer, WES
- Ms. Charlotte Hjertstrom Abelin Asst. Programme Officer, WES

ウガンダ国水・衛生 NGO ネットワーク (UWASNET)

- Ms. Caroline Nafula Batanda Liaison / Communication Officer
- Ms. Nabunnya Kasule Harriet Programme Officer
- Patric Nalere

Water AID

- Mr. Jacinta Nekesa Socio development Officer
- Mr. Joseph Gasana Information officer

添付資料- 4 当該国の社会・経済事情

	ウガンダ共和国
	Republic of Uganda

一般指標					
政体	共和制	*1	首都	カンパラ (Kampara)	*2
元首	大統領／ヨウェリ・カグタ・ムセベニ (Yoweri Kaguta MUSEVENI)	*1,3	主要都市名	マサカ、ジンジャ、ムバレ	*3
			労働力総計	10,881 千人 (2000 年)	*6
独立年月日	1962 年 10 月 9 日	*3,4	義務教育年数	年間 (年)	*13
主要民族／部族名	バンツー語系 3 分の 2、ニール語系	*1,3	初等教育就学率	151.4% (1998 年)	*6
主要言語	英語、スワヒリ語、ルガンダ語	*1,3	中等教育就学率	16.1% (1998 年)	*6
宗教	キリスト教 60%、伝統宗教 30%、イスラム教 10%	*1,3	成人非識字率	32.9% (2000 年)	*6
国連加盟年	1962 年 10 月 25 日	*12	人口密度	112.68 人／km ² (2000 年)	*6
世銀加盟年	1963 年 9 月 27 日	*7	人口増加率	2.8% (1980-2000 年)	*6
IMF 加盟年	1963 年 9 月 27 日	*7	平均寿命	平均 44.00 男 43.30 女 44.60	*10
国土面積	241.00 千 km ²	*1,6	5 歳児未満死亡率	161／1000 (2000 年)	*6
総人口	22,210 千人 (2000 年)	*6	カロリー供給量	2,359.3cal／日／人 (2000 年)	*17

経済指標					
通貨単位	ウガンダ・シリング(Shilling)	*3	貿易量	(1999 年)	
為替レート	1 US\$ = 1,830.10 (2002 年 12 月)	*8	商品輸出	500.1 百万ドル	*15
会計年度	Jun. 30	*6	商品輸入	-1,096.5 百万ドル	*15
国家予算	(2001 年)		輸入カバー率	4.7(月) (2002 年)	*14
歳入総額	1,083.5 Billions of Shillings	*9	主要輸出品目	コーヒー、金、魚、紅茶	*1
歳出総額	2,127.2 Billions of Shillings	*9	主要輸入品目	車輛、石油、医薬品、鉄・鉄鋼	*1
総合収支	-105.9 百万ドル (1999 年)	*15	日本への輸出	9.5 百万ドル (2001 年)	*16
ODA 受取額	819.5 百万ドル (2000 年)	*19	日本からの輸入	25.6 百万ドル (2001 年)	*16
国内総生産(GDP)	6,170.24 百万ドル (2000 年)	*6			
一人当たりの GNI	300.0 ドル (2000 年)	*6	総国際準備	1,513.0 百万ドル (2000 年)	*6
分野別 GDP	農業 42.5% (2000 年)	*6	対外債務残高	3,408.0 百万ドル (2000 年)	*6
	鉱工業 19.1% (2000 年)	*6	対外債務返済率(DSR)	23.7% (2000 年)	*6
	サービス業 38.4% (2000 年)	*6	インフレ率	10.5% (1990-2000 年)	*6
産業別雇用	農業 男 % 女 % (1998-2000 年)	*6	(消費者価格物価上昇率)		
	鉱工業 % % (1998-2000 年)	*6			
	サービス業 % % (1998-2000 年)	*6	国家開発計画	道路セクター 10 カ年計画、教育セクター投資計画、貧困撲滅行動計画(PEAP)	*11
実質 GDP 成長率	7.0% (1990-2000 年)	*6			

気象 (年～ 年平均)	観測地:カンパラ(北緯 0 度 18 分、東経 32 度 30 分、標高 1,155m)													*4,5
月	1	2	3	4	5	6	7	8	9	10	11	12	平均／計	
降水量	84.4	101.2	170.4	237.4	238.9	117.5	79.2	77.9	73.4	138.8	192.3	108.8	1620.1mm	
平均気温	21.9	22.3	22.3	22.0	21.6	21.2	20.6	20.8	21.5	21.9	21.7	21.7	21.6℃	

*1 各国概況 (外務省)

*2 世界の国々一覧表 (外務省)

*3 世界年鑑 2002 (共同通信社)

*4 最新世界各国要覧 10 訂版 (東京書籍)

*5 理科年表 (国立天文台編)

*6 World Development Indicators 2002 (WB)

*7 BRD Membership List (WB)

IMF Members' Financial Data by Country (IMF)

*8 Universal Currency Converter

*9 Government Finance Statistics Yearbook 2001 (IMF)

*10 Human Development Report 2002 (UNDP)

*11 Country Profile (EIU)、外務省資料等

*12 United Nations Member States

*13 Statistical Yearbook 1999 (UNESCO)

*14 Global Development Finance 2002 (WB)

*15 International Financial Statistics Yearbook 2002 (IMF)

*16 世界各国経済情報ファイナル 2002 (世界経済情報サービス)

*17 FAO Food Balance Sheets 2002 年 6 月 FAO Homepage

注: 商品輸入については複式簿記の計上方式を採用しているため
支払額はマイナス表記になる

	ウガンダ共和国
	Republic of Uganda

我が国における ODA の実績 (単位: 億円) *18					
項目 \ 年度	1996	1997	1998	1999	2000
技術協力	9.30	8.09	6.56	8.34	6.09
無償資金協力	21.96	25.56	20.63	11.74	9.96
有償資金協力					
総額	31.26	33.65	27.19	20.08	16.05

当該国に対する我が国 ODA の実績 (支出純額、単位: 百万ドル) *18					
項目 \ 暦年	1996	1997	1998	1999	2000
技術協力	6.88	7.10	7.03	6.92	6.37
無償資金協力	20.02	19.77	16.88	21.30	16.00
有償資金協力					
総額	26.90	26.86	23.91	28.22	22.37

OECD 諸国の経済協力実績 (2000 年) (支出純額、単位: 百万ドル) *19					
	贈与 (1) (無償資金協力・ 技術協力)	有償資金協力 (2)	政府開発援助 (ODA) (1)+(2)=(3)	その他政府資金 及び民間資金(4)	経済協力総額 (3)+(4)
二国間援助 (主要供与国)	580.4	-2.2	578.2	-35.8	542.4
1. United Kingdom	216.8	-0.2	216.6	7.6	224.2
2. Italy	83.3	-1.2	82.1	-50.9	31.2
3. Denmark	55.9	3.9	59.8	0.0	59.8
7. Japan	22.4	0.0	22.4	0.0	22.4
多国間援助 (主要援助機関)	71.3	164.3	235.6	2.8	238.4
1. IDA			175.6	0.0	175.6
2. EC			36.1	6.0	42.1
その他	7.0	-1.3	5.7	0.0	5.7
合計	658.7	160.8	819.9	-33.1	786.4

援助受入窓口機関 *20	
技術協力:	大蔵・経済計画省
無償:	大蔵・経済計画省
協力隊:	大蔵・経済計画省

*18 政府開発援助 (ODA) 国別データブック 2001 (国際協力推進教会)

*19 International Development Statistics (CD-ROM) 2002 OECD

*20 JICA 資料

添付資料- 5 協議議事録

1. Minutes of Discussions on the Basic Design Study on the Project for Rural Water Supply in Central Uganda, the Republic of Uganda dated February 20, 2003
2. Technical Notes on the Basic Design Study on the Project for Rural Water Supply in Central Uganda, the Republic of Uganda dated March 19, 2003
3. Minutes of Discussions on the Basic Design Study on the Project for Rural Water Supply in Central Uganda, the Republic of Uganda dated August 8, 2003

**MINUTES OF DISCUSSIONS
ON THE BASIC DESIGN STUDY
ON THE PROJECT FOR
RURAL WATER SUPPLY IN CENTRAL UGANDA
IN THE REPUBLIC OF UGANDA**

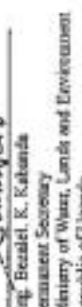
In response to the request from the Government of the Republic of Uganda (hereinafter referred to as "Uganda"), the Government of Japan has decided to conduct a basic design study on the Project for Rural Water Supply in Central Uganda (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA") and JICA sent to Uganda the Basic Design Study Team (hereinafter referred to as "the Team"), which is headed by Mr. Shinichi Matsumura, Deputy Resident Representative, Kenya Office, JICA, and is scheduled to stay in the country from February 13 to March 20, 2003.

The Team held discussions with the concerned officials of the Government of Uganda, and conducted a field survey at the project site.

In the course of the discussions and field survey, both parties have confirmed the main items of the Project as described on the attached sheets. The Team will proceed to further works and prepare the Basic Design Study Report.

Kampala, 20 February 2003


Mr. Shinichi Matsumura
Leader
Basic Design Study Team
Japan International Cooperation Agency
Japan


Ego Bezael K. Kibanda
Permanent Secretary
Ministry of Water, Lands and Environment
Republic of Uganda

ATTACHMENT

1. Objective

The objective of the Project is to improve the health and living standard of the people who live in Masaka, Mukono and Kuyunga Districts by providing potable water through the procurement of equipment and construction of water supply facilities.

2. Project Sites

The Project sites requested by the Ugandan side are located in Masaka, Mukono and Kuyunga Districts as shown in annex-1.

3. Responsible and Implementing Agencies

The responsible and implementing organizations of the Project is the Directorate of Water Development (DWD), Ministry of Water, Lands and Environment (MoWLE).
The organization chart is shown in annex-2.

4. Items Requested by the Government of Uganda

After a series of discussions with the Team, the Ugandan side requested the items shown in annex-3, which were different from the original ones. The new list was considered based on the actual situation of related works and strengthening of community enlightenment activity. The Japanese side explained that in Japan's Grant Aid, equipment and materials that are for general use and able to be procured locally would be prioritized lower.

Both sides confirmed that the appropriateness of the request shall be assessed according to the further studies and analysis in Japan and the final components of the Project shall be decided after the assessment.

5. Japan's Grant Aid System

(1) The Ugandan side has understood Japan's Grant Aid system explained by the Team as described in annex-4.

(2) The Ugandan side will take necessary measures, as described in table 4.1 in annex-4, for smooth implementation of the Project, on condition that the Grant Aid Assistance by the Government of Japan is extended to the Project.

6. Schedule of the Study

(1) The consultants of the Team will proceed to carry out further studies such as interview/surveys on

socio-economy, hydrogeological investigation, water quality examination, management condition of the existing machinery and equipment and so on, in Uganda until March 20, 2003.

(2) Based on the Minutes of Discussion and technical examination of the study results, JICA will prepare a draft report in English and dispatch a mission to Uganda in order to explain its contents around May 2003.

(3) If the contents of the draft report are accepted in principle by the Ugandan side, JICA will complete the final report and send it to the Ugandan side around August 2003.

7. Other Relevant Issues

The following issues were discussed and confirmed by both sides.

(1) Coordination with the water and sanitation sector policy of Uganda
The Ugandan side and the Japanese side confirmed that the Project would contribute towards enhancing quality of life of the poor, which is stated in the "Poverty Eradication Action Plan". As for coordination with the water and sanitation sector policy, both sides agreed that the following issues were to be considered in implementation of the Project.

--- the estimated Project cost considering "value for money" should be reported to the Ugandan side from the Japanese side as soon as possible so that the cost should be reflected in the Medium Term Expenditure Framework.

--- the Project should adopt the "critical requirements" stated in the "Rural water and sanitation Operation Plan: 2002-2007 (OP3)" to a possible extent. Concerning the requirements No.1 to 6 excluding No.4, targets for each requirement would be set according to the result of this study, and facilitation would be conducted in the implementation stage. As for the requirement No.4, both sides agreed that in view of sustainability, to set up a water users committee and collect water fee up to the amount, which would be defined in accordance with the result of this study, are conditions for commencement of construction. If a community cannot fulfill the conditions, it is excluded from the Project sites. Both sides agreed that the necessary procedures towards critical requirements shall be confirmed around May 2003 when the mission for explanation of the draft report comes to Uganda.

--- the Project shall adopt design criteria, guidelines and method of monitoring stated in OPS as much as possible.

(2) Proposed Components of the Project

The Ugandan side requested, as one of the components of the Grant AID, consultancy services ("soft component") for assistance in community enlightenment and education in order to ensure the sustainability of the Project.

After discussions, both sides agreed that the Project would be composed of the following:

- Construction of the maximum number of 150 water supply facilities
- Procurement of equipment and materials
- Assistance for implementation of community enlightenment and education ("Soft Component")

However, the final components of the Project shall be determined according to the result of further studies and analysis in Japan and further discussions between the Ugandan side and the Japanese side.

(3) Operation and maintenance of facilities

The water supply facilities requested by the Ugandan side shall be properly operated and maintained by the respective villages with support from the sub-counties, districts and DWD.

The Ugandan side promised to facilitate the district administrations to arrange adequate personnel and budget for supporting villages to ensure sustainability of the water supply facilities.

Both sides agreed to confirm the roles of each concerned body and necessary measures to be taken for proper operation and maintenance of the water supply facilities around May 2003 when the mission for explanation of the draft report comes to Uganda together with the district water officers and related personnel.

(4) Equipment and materials requested for procurement

Both sides agreed that the necessity of the equipment and materials requested by the Ugandan side as stated in annex-3 shall be examined from the view point of purpose of use, future project plan, technical and budgetary availability for operation and maintenance, conditions of the existing equipment, etc. The type, quantity and specification of these equipment and materials shall be determined based on the minimum requirement and the easiest operational level.

The equipment and materials to be procured under the Project shall be properly operated and maintained by the Ugandan side.

(5) Budget allocation

The Ugandan side ensured to allocate the necessary budget for implementation of the Project.

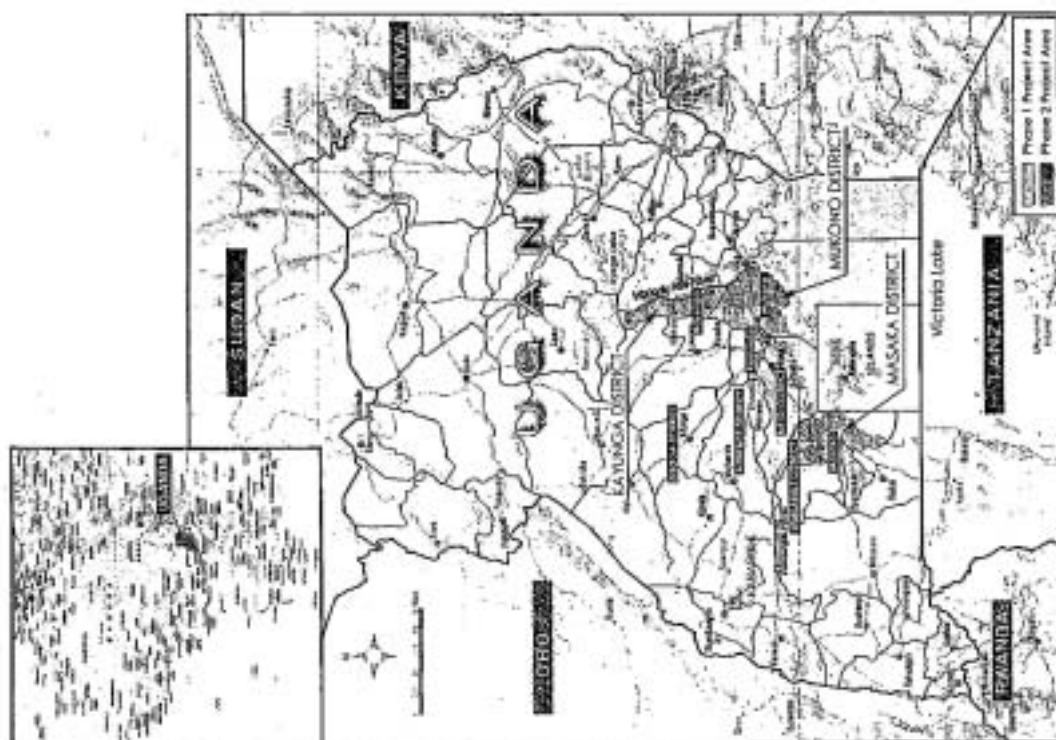
Both sides agreed that the estimated cost to be covered by the Ugandan side and progress of the budget allocation by the Ugandan side should be confirmed around May 2003 when the mission for explanation of the draft report comes.

(6) Screening of villages for construction of water supply facilities

The list of the candidate sites for construction of water supply facilities is shown in annex-5. The Ugandan side explained since every village needs water, the list has no priority among the villages.

Both sides agreed that the sites are to be examined in terms of socio-economic aspect, ease of construction and hydrogeological conditions. Actual sites will be selected from the list, applying the criteria below;

- demographic condition
- existing water facilities
- accessibility
- hydrogeological conditions
- water quality (applying Ugandan guidelines)
- capacity for operation and maintenance of the facilities at community level



PROJECT LOCATION MAP

- absence of water projects by other donors/NGOs
- willingness to pay for operation and maintenance of water supply facilities by community
- technical and managerial competence of the implementing organization
- sanitation and hygienic conditions

(7) Type of water supply facilities

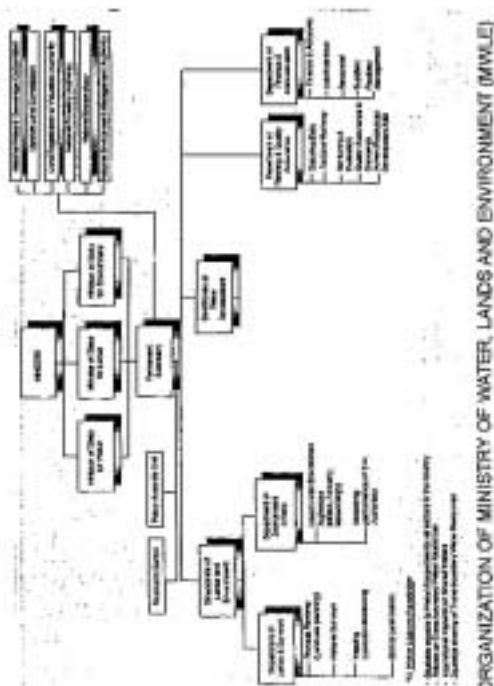
Both sides agreed that water supply facilities under the Project would be boreholes equipped with handpumps. Considering proper operation and maintenance, basically one water supply facility would be constructed in one village under the Project.

(8) Unsuccessful borehole and alternative drilling

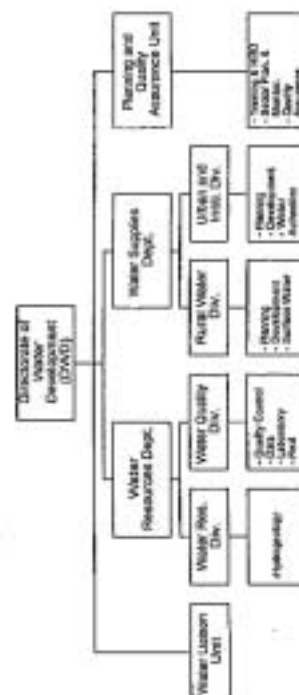
Both sides agreed that in case the first attempt at a certain village is unsuccessful, a second attempt would be drilled at an appropriate locality in the same village. However, if the second attempt is unsuccessful, the third would not be drilled. An alternative drilling would be conducted in a village, which has a large population and is estimated to be capable of operation and maintenance of facilities, from the candidate village list (annex-5) with due priority consideration.

(9) Other Responsibilities of the Ugandan side

The Ugandan side agreed to be responsible for mobilizing villagers for timely construction of access roads, fences around the completed apron and the drainage pit.



ORGANIZATION OF MINISTRY OF WATER, LANDS AND ENVIRONMENT (MWLE)



ORGANIZATION OF DIRECTORATE OF WATER DEVELOPMENT (DWD)

REQUESTED PROJECT

- Construction of 150 boreholes with hand pump in Masaka, Kayunga and Mukono districts.
- Provision of the following equipment and materials.

No.	Items	Quantity
1. Survey Equipment		
1.1	High resolution electrical resistivity meters for groundwater surveys and geologging	1 set
1.2	Portable water quality testing kits for Masaka, Kayunga and Mukono	3 sets
1.3	Water level measurement for Masaka, Kayunga and Mukono	3 sets
1.4	4-wheel drive field vehicles - pick up with capacity 2,000 cc for use by the headquarters for supervisors	2 nos.
2. Equipment and Materials for Enlightenment and Education		
2.1	Laptop computers with CD rewritable ROMs and internet ready	1 set
2.2	GPS for Masaka, Kayunga and Mukono	3 sets
2.3	Portable solar printers for laptop computers and accessories	1 no.
2.4	Visual and audio equipment, some tools and our models of cylinder, hand pump units are mounted on vehicles for DWD staff to educate communities for operation and maintenance	1 set
2.5	Computer compatible S-video and slide projector to be used as visual aids in seminars and workshops for the communities	1 set
2.6	Digital video camera	1 set
2.7	Digital still camera	1 no.
2.8	Motorbike for Mukono, Kayunga and Masaka	3 nos.
2.9	Bicycles for HPWs and Community Development Officers in Mukono, Kayunga and Masaka	1 lot
2.10	Repair tools of hand pump for HPWs in Mukono, Kayunga and Masaka	1 lot

- Software assistance in capacity building of DWD, extension workers and community in order to enable the users to operate and manage the water supply facilities to be constructed under the project

JAPAN'S GRANT AID

1 Japan's Grant Aid Scheme

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

(1) Grant Aid Procedures

Japan's Grant Aid Program is executed through the following procedures:

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

Firstly, the application or a request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for the Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request. Secondly, JICA conducts the study (Basic Design Study) using (a) Japanese consulting firm(s).

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

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

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

(2) Basic Design Study

1) Contents of the Study

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

- i) Confirmation of the background, objectives, and benefits of the requested Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- ii) Evaluation of the appropriateness of the Project to be implemented under the Grant

Aid Scheme from a technical, social and economic point of view.

- iii) Confirmation of items agreed upon by both parties concerning the basic concept of the Project.

iv) Preparation of a Basic Design of the Project.

v) Estimation of costs of the Project.

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

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

2) Selection of Consultants

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

The consulting firm(s) used for the Study is (are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain required consistency.

(3) Japan's Grant Aid Scheme

1) Exchange of Notes (EN)

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

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

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

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

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

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

4) Necessity of the "Verification"

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

5) Undertakings required to the Government of the Recipient Country

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

- i) To secure land necessary for the site of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- ii) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the site.
- iii) To secure buildings prior to the procurement in case the installation of the equipment.
- iv) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- v) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contract.
- vi) To accord Japanese nationals, whose services may be required in connection with the supply of the products and services under the Verified contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

6) "Proper Use"

The recipient country is required to operate and maintain the facilities constructed and equipment purchased under the Grant Aid properly and 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.

7) "Re-export"

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

8) Banking Arrangement (B/A)

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the

obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts

- b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay (ATP) issued by the Government of the recipient country or its designated authority.

9) Authorization to Pay (ATP)

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

2 Grant Aid Procedure

- (1) Flowchart of Japan's Grant Aid Procedures

Refer to Fig. 4.1.

- (2) Major Undertaking to be taken by Each Government

Refer to Table 4.1.

Fig. A.1 Flow Chart of Japan's Grant Aid Procedures

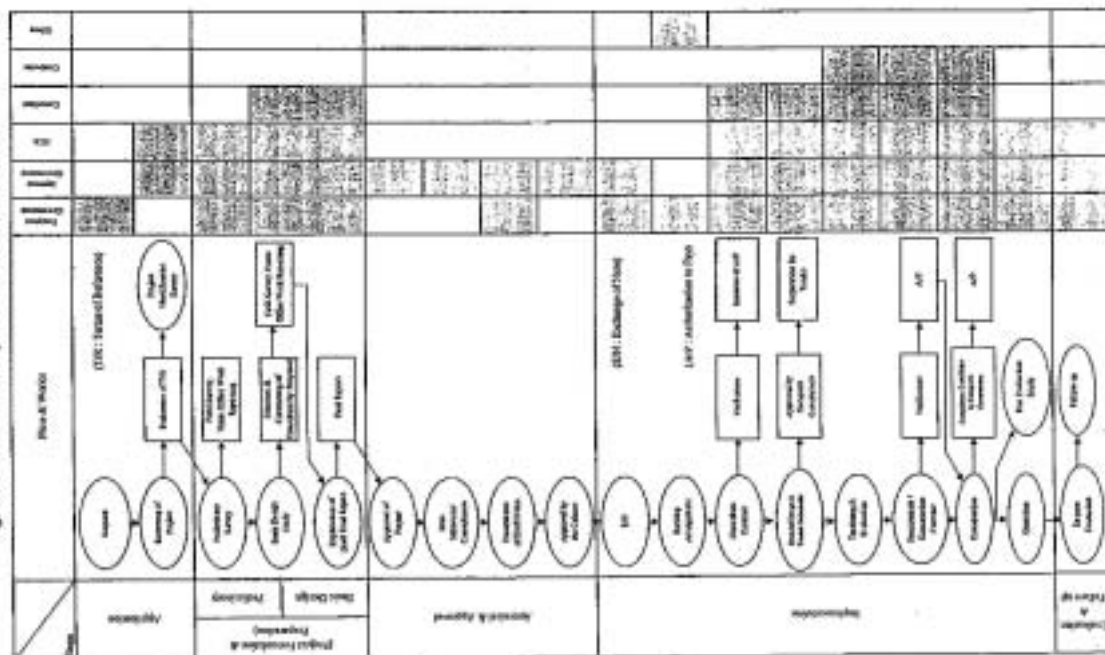


Table 4.1 Major Undertakings to be Taken by Each Government

No	Items	To be Covered by Contract	To be Covered by Recipient	To be Covered by Recipient
No	Items	Contract	Contract	Contract
1	To secure land			
2	To clear, level and reclaim the site when needed			
3	To construct gates and fences in and around the site			
4	To construct the parking lot			
5	To construct roads			
	1) Within the site			
	2) Outside the site			
6	To construct the building			
7	To provide facilities for the distribution of electricity, water supply, drainage and other logistical facilities			
	1) Electricity			
	a. The distribution line to the site			
	b. The drop wiring and internal wiring within the site			
	c. The main circuit breaker and transformer			
	2) Water Supply			
	a. The city water distribution main to the site			
	b. The supply service within the site (pumping and elevated tanks)			
	3) Drainage			
	a. The city drainage main (for storm sewer and others) to the site			
	b. The drainage system (for toilet sewer, ordinary waste, storm drainage and others) within the site			
	c) Gas Supply			
	a. The city gas main to the site			
	b. The gas supply system within the site			
	3) Telephone System			
	a. The telephone trunk line to the main distribution building (MDP) of the building			
	b. The MDP and the extension after the trunk line			
	4) Furniture and Equipment			
	a. General furniture			
	b. Project equipment			
8	To bear the following commitments to the Japanese bank for the building services based upon the B.O.A.			
	1) Accounting commitment of JPY			
	2) Payment commitment			
9	To ensure working and contents clearance at part of disambiguation in the recipient country:			
	1) Marine (Air) transportation of the products from Japan to the recipient country			
	2) The insurance and customs clearance of the products at the port of disambiguation			
	3) Internal transportation from the port of disambiguation to the project site			
10	To secure Japanese nationals, whose services may be required in connection with the supply of the products and the services under the verified contract, and pay them for the performance of their work			
11	To exempt Japanese nationals from customs duties, terminal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the verified contract			
12	To maintain and use property and facilities constructed and equipment provided under the Contract			
13	To bear all the expenses, other than those to be borne by the Contract, necessary for construction of the facilities as well as for the transportation and			

List of the Candidate Villages for Baseline Construction
MAY 2003 (ongoing)

Candidate Village	Origin	Area of Village	Project	Sub-Cluster	Population	Household	Area	Other Info
1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10
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15	15	15	15	15	15	15	15	15
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34	34	34	34	34	34	34	34	34
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77	77	77	77	77	77	77	77	77
78	78	78	78	78	78	78	78	78
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84	84	84	84	84	84	84	84	84
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95	95	95	95	95	95	95	95	95
96	96	96	96	96	96	96	96	96
97	97	97	97	97	97	97	97	97
98	98	98	98	98	98	98	98	98
99	99	99	99	99	99	99	99	99
100	100	100	100	100	100	100	100	100

the attached sheets

MAJUMBAR DISTRICT

Comm. No.		No.	Stage of Village	COUNTY	SUB-COUNTY	Population	Primary road access	Access	Water point
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40	40	40
41	41	41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45	45	45

No. of selected villages: 41

Excluded Villages		Sub-COUNTY		Population		Access	
Comm. No.	No.	Stage of Village	Sub-COUNTY	Population	Access	Notes	Notes
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40
41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45

No. of excluded villages: 4

Selection of target villages for the project

1. Those villages which are excluded from the list of the requested villages.
2. Those villages which do not have a proper access (road) to the project area.
3. Those villages of which detailed information is not provided in the list.
4. Those villages which have a shallow well with hand pump and in good condition.

MAJUMBAR DISTRICT

Selected Villages		Original		Sub-COUNTY		Population		Access	
Comm. No.	No.	Stage of Village	Sub-COUNTY	Population	Access	Notes	Notes		
1	1	1	1	1	1	1	1		
2	2	2	2	2	2	2	2		
3	3	3	3	3	3	3	3		
4	4	4	4	4	4	4	4		
5	5	5	5	5	5	5	5		
6	6	6	6	6	6	6	6		
7	7	7	7	7	7	7	7		
8	8	8	8	8	8	8	8		
9	9	9	9	9	9	9	9		
10	10	10	10	10	10	10	10		
11	11	11	11	11	11	11	11		
12	12	12	12	12	12	12	12		
13	13	13	13	13	13	13	13		
14	14	14	14	14	14	14	14		
15	15	15	15	15	15	15	15		
16	16	16	16	16	16	16	16		
17	17	17	17	17	17	17	17		
18	18	18	18	18	18	18	18		
19	19	19	19	19	19	19	19		
20	20	20	20	20	20	20	20		
21	21	21	21	21	21	21	21		
22	22	22	22	22	22	22	22		
23	23	23	23	23	23	23	23		
24	24	24	24	24	24	24	24		
25	25	25	25	25	25	25	25		
26	26	26	26	26	26	26	26		
27	27	27	27	27	27	27	27		
28	28	28	28	28	28	28	28		
29	29	29	29	29	29	29	29		
30	30	30	30	30	30	30	30		
31	31	31	31	31	31	31	31		
32	32	32	32	32	32	32	32		
33	33	33	33	33	33	33	33		
34	34	34	34	34	34	34	34		
35	35	35	35	35	35	35	35		
36	36	36	36	36	36	36	36		
37	37	37	37	37	37	37	37		
38	38	38	38	38	38	38	38		
39	39	39	39	39	39	39	39		
40	40	40	40	40	40	40	40		
41	41	41	41	41	41	41	41		
42	42	42	42	42	42	42	42		
43	43	43	43	43	43	43	43		
44	44	44	44	44	44	44	44		
45	45	45	45	45	45	45	45		

45

Excluded Villages		Sub-COUNTY		Population		Access	
Comm. No.	No.	Stage of Village	Sub-COUNTY	Population	Access	Notes	Notes
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40
41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45

No. of excluded villages: 4

TECHNICAL NOTES
ON
THE BASIC DESIGN STUDY
ON
THE PROJECT FOR RURAL WATER SUPPLY
IN
CENTRAL UGANDA,
THE REPUBLIC OF UGANDA

Based on the Minutes of Discussions (hereinafter referred to as "M/D") on the Basic Design Study on the Project for Rural Water Supply in Central Uganda (hereinafter referred to as "the Project") signed on February 20, 2003 between the Basic Design Study Team (hereinafter referred to as "the Team") of Japan International Cooperation Agency (hereinafter referred to as "JICA") and Directors of Water Development (hereinafter referred to as "DWD"), of the Government of the Republic of Uganda, the consultant members of the Team had a series of discussions and conducted field surveys from February 20 to March 19, 2003.

As a result of the discussions and the surveys, both sides confirmed the technical conditions described as per the attached.

Kampala, March 19, 2003


 Engr. Magisha Shillingo
 Assistant Commissioner,
 Directorate of Water Development,
 Ministry of Water, Lands and Environment,
 Government of the Republic of Uganda


 JICA Basic Design Study Team for
 the Project for Rural Water Supply
 in Central Uganda

ATTACHMENT

Both parties agreed upon and confirmed the following items.

1. Villages Requested for Construction of Boreholes with Hand Pump
It is confirmed that the 140 villages listed in Table 1 are requested for the construction of boreholes with hand pump. The implementation of construction will be determined after examination as stipulated in M/D.
2. Equipment and Materials Requested
It is confirmed that the equipment and materials listed in Table 2 are requested to be procured under the Project. The details and specifications of these equipment and materials are to be examined in the studies to be made in Japan as stipulated in M/D.
3. Numbers of Hand Pump Mechanics in Sub-counties
Ugandan side agreed to confirm the available Hand Pump Mechanics (HPMs) in each sub-county and assign the proper specialists in case no HPM is available in the sub-county by the commencement of the project implementation.
4. Use of Procured Survey Equipment
Both sides confirmed that the procured equipment will be used as follows:
 - High resolution electric resistivity meters and geo-logging equipment:
There are four (4) hydrologists who can operate these geophysical survey equipment, and they can operate them by the instruction manuals attached to the equipment.
 - Portable water quality testing kits:
Water quality testing kits will be attached to the District Water Offices, and will be used by the staff thereof for monitoring the water quality of the existing boreholes. The staff will be able to use these kits providing simple training by the laboratory staff of the Water Resources Management Department of DWD.
 - Water level meters/dippers
The water level meters/dippers will be used for monitoring groundwater levels in the existing boreholes, and will be used by the staff of the District Water Offices.
5. Communication between Head Quarter of DWD and the District Water Offices
The Ugandan side agreed to clearly inform the concerned district officers of the basic issues relating to the Project such as the agreed items of M/D, etc. in order to avoid misunderstanding by the district officers about the Project.
6. Water Quality of Existing Borehole in Muboma and Kanyanga Districts
The Ugandan side agreed to confirm the water quality data (especially Nitrate) of the existing boreholes in the Muboma and Kanyanga Districts which the Team pointed out, and to inform the Team of the results as soon as possible. Re-analyses should be made for the new samples taken in some boreholes selected among those with doubtful data.

Table 1 LIST OF THE VILLAGES REQUESTED FOR BOREHOLE CONSTRUCTION

No.	Village	County	Sub-county	UTM E	UTM N	Altitude m	Source of Water	Access	Geology	Topo. Condition	Adjacent Boundary Block
Mt. 30	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 31	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 32	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 33	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 34	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 35	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 36	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 37	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 38	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 39	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 40	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 41	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 42	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 43	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 44	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 45	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A

Ranking Criteria of Villages

Rank for the villages		
I	A	B
I. Source of water at present	No water facility	Building of shallow well
II. Accessibility to the selected villages	Accessible through the year	Accessible with some season
III. Geologic condition	Sedimentary rocks and many deposits	Granite and Gneiss
IV. Topographic condition	A village is located at a valley or at foot of mountain	A village is located at a valley or at foot of mountain
V. Rank of nearby specific capture of brine water	No possibility	A little possibility
		Possible

Table 1 LIST OF THE VILLAGES REQUESTED FOR BOREHOLE CONSTRUCTION

No.	Village	County	Sub-county	UTM E	UTM N	Altitude m	Source of Water	Access	Geology	Topo. Condition	Adjacent Boundary Block
Mt. 1	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 2	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 3	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 4	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 5	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 6	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 7	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 8	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 9	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 10	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 11	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 12	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 13	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 14	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 15	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 16	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 17	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 18	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 19	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 20	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 21	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 22	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 23	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 24	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 25	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 26	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 27	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 28	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 29	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 30	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 31	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 32	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 33	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 34	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 35	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 36	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 37	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 38	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 39	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 40	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 41	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 42	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 43	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 44	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 45	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 46	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 47	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 48	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 49	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 50	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 51	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 52	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 53	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 54	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 55	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 56	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 57	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 58	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 59	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A
Mt. 60	Kisumu	Kisumu	Kisumu	367346	9973313	1352	480	A	B	B	A

TABLE 1. LIST OF THE VILLAGES REQUESTED FOR BOREHOLE CONSTRUCTION

Karnataka District												
No.	Village	County	Sub-county	UTM			Altitude	Topographic Sheet	Assess	Geologic Classification	Topo Classification	Adjusted Finality Rating
				E	N	W						
Ky 1	Ky 1	Elk	Elk	48548	817811	1,879	567	A	A	B	D	A
Ky 2	Ky 2	Elk	Elk	49513	812156	1,812	528	A	B	B	D	A
Ky 3	Ky 3	Elk	Elk	47560	813458	1,886	536	A	B	B	B	A
Ky 4	Ky 4	Elk	Elk	49507	813788	1,662	431	A	B	B	B	A
Ky 5	Ky 5	Elk	Elk	41509	811728	1,618	369	A	B	B	B	B
Ky 6	Ky 6	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 7	Ky 7	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 8	Ky 8	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 9	Ky 9	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 10	Ky 10	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 11	Ky 11	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 12	Ky 12	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 13	Ky 13	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 14	Ky 14	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 15	Ky 15	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 16	Ky 16	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 17	Ky 17	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 18	Ky 18	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 19	Ky 19	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 20	Ky 20	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 21	Ky 21	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 22	Ky 22	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 23	Ky 23	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 24	Ky 24	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 25	Ky 25	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 26	Ky 26	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 27	Ky 27	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 28	Ky 28	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
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Ky 30	Ky 30	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 31	Ky 31	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 32	Ky 32	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 33	Ky 33	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 34	Ky 34	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 35	Ky 35	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 36	Ky 36	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 37	Ky 37	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 38	Ky 38	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 39	Ky 39	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 40	Ky 40	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 41	Ky 41	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 42	Ky 42	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 43	Ky 43	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 44	Ky 44	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 45	Ky 45	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 46	Ky 46	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 47	Ky 47	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 48	Ky 48	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 49	Ky 49	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
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Ky 56	Ky 56	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
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Ky 63	Ky 63	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 64	Ky 64	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 65	Ky 65	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
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Ky 67	Ky 67	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 68	Ky 68	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 69	Ky 69	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 70	Ky 70	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 71	Ky 71	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
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Ky 91	Ky 91	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 92	Ky 92	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 93	Ky 93	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 94	Ky 94	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
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Ky 96	Ky 96	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 97	Ky 97	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 98	Ky 98	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 99	Ky 99	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C
Ky 100	Ky 100	Elk	Elk	41521	814787	1,687	625	A	B	B	B	C

TABLE 1. LIST OF THE VILLAGES REQUESTED FOR BOREHOLE CONSTRUCTION

Mangrove Data										Species
No.	Village	County	Sub-county	TZM		Attacks (No.)	Spills (No.)	Score of Waste	Outage	Type of Contamination
				E	H					
1	Chama PIR	Bukuru	Bukuru	405061	0011213	1,278	1,300	A	B	B
2	Makindu	Siaya	Bukuru	405066	0011201	1,202	1,300	A	B	B
3	Gardhi PIR	Bukuru	Karatu	405067	0011203	1,381	000	A	B	A
4	Lugdi Kiri	Bukuru	Ruvu	402109	0011201	1,209	000	A	B	B
5	Malindi PIR	Bukuru	Ng'ara	511001	0011211	1,344	218	A	B	B
6	Malindi PIR	Bukuru	Ng'ara	500115	0011100	1,220	000	A	B	B
7	Berenga	Bukuru	Ng'ara	500449	0011103	1,311	435	A	B	B
8	Kibiti PIR	Bukuru	Ng'ara	207014	0010114	1,440	1,210	A	B	A
9	Bakuvu	Bukuru	Ng'ara	491001	0010007	1,314	135	A	B	B
10	Bukuru PIR	Bukuru	Ng'ara	501101	0010100	1,312	138	A	B	B
11	Bukuru	Bukuru	Ng'ara	521114	0010007	1,168	1,401	A	B	B
12	Kibiti	Bukuru	Ng'ara	501118	0011113	1,110	1,411	A	B	B
13	Thangini PIR	Bukuru	Ng'ara	501118	0011113	1,110	1,411	A	B	B
14	Malindi	Bukuru	Ng'ara	501118	0011113	1,110	1,411	A	B	B
15	Malindi	Bukuru	Ng'ara	501118	0011113	1,110	1,411	A	B	B
16	Malindi	Bukuru	Ng'ara	501118	0011113	1,110	1,411	A	B	B
17	Malindi	Bukuru	Ng'ara	501118	0011113	1,110	1,411	A	B	B
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2100	100

Table 1. Baseline characteristics

Table - 2 List of Equipment and Materials Requested

No.	Items	Quantity	Remarks
1. Survey Equipment			
1.1	High resolution electrical resistivity meters for groundwater surveys and geologging	1 set	Attached to DWD HQ These are four (4) hydrogeologists who can operate the equipment.
1.2	Portable water quality testing kits for Musaka, Kayunga and Mukono	3 sets	Attached to District Water Offices
1.3	Water level recorder/pump for Musaka, Kayunga and Mukono	3 sets	
1.4	4-wheel drive field vehicles - pick up with capacity 2,800 cc for use by the headquarters for supervision	2 nos.	Replace of the existing vehicles Attached to DWD HQ
2. Equipment and Materials for Enlightenment and Education			
2.1	Laptop computers with CD rewritable ROMs and internet ready	1 set	Attached to DWD HQ
2.2	GPS for Musaka, Kayunga and Mukono	3 sets	Attached to District Water Offices
2.3	Portable color printers for laptop computers and accessories	1 no.	Attached to DWD HQ
2.4	Visual and audio equipment, some tools and cut models of cylinder, hand pump and are mounted on vehicles for DWD staff to educate communities for operations and maintenance	1 set	Attached to DWD HQ The equipment will be utilized in consultation with two (2) socio-scientists of DWD.
2.5	Computer compatible S-video and slide projector to be used as visual aids in seminars and workshops for the communities	1 set	
2.6	Digital video camera	1 set	
2.7	Digital still camera	1 no.	Attached to District Water Offices Assistant Officers and County Water Officers will use
2.8	Motorbikes for Mukono, Kayunga and Musaka	3 nos.	Attached to District Water Offices 50 nos. will be used by CD Assistants in each sub-county, and 50 nos. will be loaned to HPWs of each sub-county.
2.9	Bicycles for HPWs and Community Development Officers in Mukono, Kayunga and Musaka	100 nos.	Attached to District Water Offices The tools will be loaned to HPWs of each sub-county.
2.10	Repair tools of hand pump for HPWs in Mukono, Kayunga and Musaka	50 nos.	

**MINUTES OF DISCUSSIONS
ON THE BASIC DESIGN STUDY
ON THE PROJECT FOR
RURAL WATER SUPPLY IN CENTRAL UGANDA
IN THE REPUBLIC OF UGANDA
(EXPLANATION ON DRAFT REPORT)**

In March 2003, Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched Basic Design Study Team on THE PROJECT FOR RURAL WATER SUPPLY IN CENTRAL UGANDA (hereinafter referred to as "the Project") to the Republic of Uganda (hereinafter referred to as "Uganda"), and through discussion, field survey in Uganda, and technical examination of the results in Japan, JICA prepared a draft report of the study.

In order to explain and to consult with Uganda on the components of the draft report, JICA sent to Uganda the Draft Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Mr. Shinichi Matsura, Deputy Resident Representative, Kenya Office, JICA, from 31 July to 8 August 2003.

As a result of discussions, both parties confirmed the main items described on the attached sheets.

Kampala, 8 August 2003

Shinichi Matsura

Mr. Shinichi Matsura
Leader
Basic Design Study Team
Japan International Cooperation Agency
Japan

Eng. Hamud K. Nalanda

Permanent Secretary
Ministry of Water, Lands and Environment
Republic of Uganda

ATTACHMENT

1. Components of the Draft Report

The Government of Uganda agreed and accepted in principle the components of the draft report explained by the Team.

2. Minutes of Discussions (28 February, 2003)

Both sides read and confirmed again all the contents of the previous Minutes of Discussions, on the basic design study of 20 February 2003.

3. Japan's Grant Aid Scheme

The Ugandan side understands the Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of Uganda as explained by the Team and described in Annex-4 of the Minutes of Discussions signed by both parties on 30 February, 2003.

4. Schedule of the Study

JICA will complete the final report in accordance with the items confirmed and send it to Uganda around September 2003.

5. Other Relevant Issues

The following issues were discussed and confirmed by both sides.

A.1 Components of the Project

Both sides agreed that the Project would be composed of the following components when the Japanese Government finally decides to implement the Project.

- Borehole drilling of 11,970m (approximately 126 successful boreholes)
- Installation of casing pipes and concrete and construction of superstructures for approximately 120 boreholes
- Procurement of equipments and materials listed in Annex-1
- Support on community enlightenment, sanitation and hygiene education and education for facility operation, maintenance and management by communities ("Self Component")

5.2 Villages for borehole construction

Both sides agreed that the target villages for borehole construction under the Project would be one hundred and twenty (120), one successful borehole for each village. The target villages for borehole construction are listed in Annex-2. The Ugandan side promised to avoid any further duplication with other feasible projects in the target villages of the Project. In case there is any duplication, the village

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Eng. Hamud K. Nalanda

will be excluded from the list in Annex-2 and an alternative village will not be considered.

5.3 Operation method towards unit rate contract with limitation of drilling depths

Both sides agreed that under the Project, unit rate contract with limitation of drilling depths (11.97m) was applied. Operation method towards this system is as follows:

a) In case the total number of water supply facilities does not reach 120 after drilling of 11.97m depths:

The number of water supply facilities constructed under the Project will be less than 120. Contract price for installation of casing pipes and screens and construction of superintendents for the rest of boreholes will be adjusted.

b) In case the total number of water supply facilities reaches 120 before drilling of 11.97m depths:

Contract price for the rest of drilling depths will be re-discussed for drilling work and superstructure work for appropriate number of water supply facilities. Drilling work and superstructure work will be continued, and the number of water supply facilities constructed under the Project will be more than 120.

5.4 Unsuccessful boreholes and alternative drilling

Both sides agreed that in case the first attempt at a certain village is unsuccessful, a second attempt would be drilled at an appropriate locality in the same village. However, if the second attempt is unsuccessful, the third one would not be drilled. An alternative drilling would be conducted in a village, which has a large population and is estimated to be capable of operation and maintenance of facilities, from the target villages listed in Annex-2 with due priority consideration.

5.5 Operation and maintenance of facilities

Under the Project, software assistance will be done to support community enlightenment, sanitation and hygiene education and education for facility operation, maintenance and management by the respective villages with support from the sub-counties, districts and DWD.

Both sides confirmed importance of monitoring and support by district and central administration to the villages. Directors of Water Development (DWD), Ministry of Water, Lands and Environment promised to promote to have district administrations of target districts allocate necessary number of water officers and community development assistants to facilitate proper operation and maintenance of the facilities by the villagers by December 2003 for Moraka District and July 2004 for Makono District and Kayunga District.

5.6 Coordination with the "Rural water and sanitation Operation Plan: 2002-2007 (OPSP)"

The Project will adopt the "critical requirements" stated in the OPSP through software assistance activity. During pre-construction workshop in the software assistance programme, sensitization for villagers will be done and each village is required to collect maintenance fee of 100,000 Uganda Shillings as conditions for commencement of construction.

Both sides agreed that if a village cannot fulfill the conditions stated in Annex-2 and is judged that the villagers' willingness to fulfill the conditions is insufficient, it will be excluded from the list in

Annex-2 and an alternative village will not be considered.

5.7 Budgetary arrangement of Ugandan side

The Ugandan side agreed to make necessary budgetary arrangement to cover required amount of cost shown in Annex-4.

5.8 Other Responsibilities of the Ugandan side

The Ugandan side agreed to be responsible for mobilizing villagers for timely construction of access roads, fences around the completed apron and the drainage pit. Also, it was confirmed that DWD is responsible to instruct usage of water quality analysis kit which will be equipped to each district office.

Villages for Borehole Construction

No	Village	Country	Region	Dist	Pop
No 23	Kyabak	Kenya	Kenya	1,080	977
No 24	Kyabak-Morogoro	Kenya	Kenya	1,082	700
No 25	Kyabak	Kenya	Kenya	1,076	500
No 26	Kyabak (H)	Kenya	Kenya	1,064	410
No 27	Kyabak (H)	Kenya	Kenya	1,117	780
No 28	Kyabak	Kenya	Kenya	1,059	1,128
No 29	Kyabak	Kenya	Kenya	1,052	685
No 30	Kyabak	Kenya	Kenya	1,105	842
No 31	Kyabak	Kenya	Kenya	1,100	1,052
No 32	Kyabak	Kenya	Kenya	1,100	1,562
No 33	Kyabak	Kenya	Kenya	1,076	868
No 34	Kyabak	Kenya	Kenya	1,154	790
No 35	Kyabak	Kenya	Kenya	1,104	1,800
No 36	Kyabak	Kenya	Kenya	1,111	1,894
No 37	Kyabak	Kenya	Kenya	1,121	442

Villages for Borehole Construction

No	Village	Country	Region	Dist	Pop
No 1	Makindu	Kenya	Kenya	1,212	1,200
No 2	Makindu	Kenya	Kenya	1,191	605
No 3	Makindu	Kenya	Kenya	1,200	600
No 4	Makindu	Kenya	Kenya	1,200	600
No 5	Makindu	Kenya	Kenya	1,200	600
No 6	Makindu	Kenya	Kenya	1,200	600
No 7	Makindu	Kenya	Kenya	1,200	600
No 8	Makindu	Kenya	Kenya	1,200	600
No 9	Makindu	Kenya	Kenya	1,200	600
No 10	Makindu	Kenya	Kenya	1,200	600
No 11	Makindu	Kenya	Kenya	1,200	600
No 12	Makindu	Kenya	Kenya	1,200	600
No 13	Makindu	Kenya	Kenya	1,200	600
No 14	Makindu	Kenya	Kenya	1,200	600
No 15	Makindu	Kenya	Kenya	1,200	600
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No 90	Makindu	Kenya	Kenya	1,200	600
No 91	Makindu	Kenya	Kenya	1,200	600
No 92	Makindu	Kenya	Kenya	1,200	600
No 93	Makindu	Kenya	Kenya	1,200	600
No 94	Makindu	Kenya	Kenya	1,200	600
No 95	Makindu	Kenya	Kenya	1,200	600
No 96	Makindu	Kenya	Kenya	1,200	600
No 97	Makindu	Kenya	Kenya	1,200	600
No 98	Makindu	Kenya	Kenya	1,200	600
No 99	Makindu	Kenya	Kenya	1,200	600
No 100	Makindu	Kenya	Kenya	1,200	600

- Screening Guide and Candidates

Category	Criteria	Standard for Passing
1. Required documents	Letter of introduction of the local MCC/NGO/Ministry (MCC/NGO/Ministry) for DWID	Must be "Yes"
2. Women's participation	Proportion of women (MCC/NGO/Ministry) must be more than 30%. If less than 30%, must have an acceptable rationale. Typically, it is important to quantify: even if women occupy areas that 30%, it is meaningful if they are not given a chance to express their opinions or participate in (direct activities)	Must be "Yes"
3. Protection of land, resources and hygiene	Understanding, awareness, involvement, and action toward gender development; Understanding, willingness and action toward better village; Understanding, willingness and action toward better health; Understanding, willingness and action toward better environment; Understanding, willingness and action toward better community relations	Must be "Yes"
4. Community contribution	Amount of community contribution collected	Must be "Yes"
5. Submission of Land and Ownership Certificate	Understanding of QMAM fee and willingness to pay; Agreement to participate in construction	Must be "Yes"
6. QMAM Plan	Agreement paper on land construction; Understanding of QMAM fee and willingness to pay; Agreement to participate in construction; Understanding of QMAM fee and willingness to pay; Agreement to participate in construction; Understanding of QMAM fee and willingness to pay; Agreement to participate in construction	Must be "Yes"

Budget Allocation for the Expenses Borne by the Government of Uganda

Item	Expense	Benefit
(1) Salary and allowances of CDA and other officials for participation in advance activities	620	Term 1: salary officer 4 persons and CDA 19 persons, 19 months Term 2: salary officer 8 persons and CDA 27 persons, 20 months
(2) Payment of honoraria for JRM and CDA	8	82,000
(3) Land acquisition of well facilities (excluding land for construction)	-	Arrangements and construction between villages
(4) Storing of land and facilities for agriculture and materials	-	Land and building of QMAM and District Water Office
(5) Development of access roads to well construction sites	-	By land/vehicles participation
(6) Well drilling works and finishing well (excluding equipment/Drill)	-	Offering labor of villagers for construction of platform and installation of hand pump
(7) Construction of irrigation furrows and high jet	-	By villagers participation
Total	428	

添付資料- 6 基本設計概要表

1. 協力対象事業名
ウガンダ共和国 第二次地方給水計画
2. 我が国が援助することの必要性・妥当性
(1) 我が国が当該国に対し援助することの必要性・妥当性 我が国はウガンダ国の民主化、経済改革、構造調整への取り組みを支援するため、農業、社会基盤整備、人的資源開発等の分野における無償資金協力および技術協力を実施してきた。今後も、97年7月の経済協力協議、99年8月のプロジェクト確認調査におけるウガンダ側との協議、およびウガンダ国「貧困撲滅行動計画(PEAP、1997年)」等を踏まえ、基礎基盤整備、人的資源開発、基礎生活支援および農業開発に重点を置いた無償資金協力、技術協力を中心とした協力を検討していくこととしている。 (2) 当該プロジェクトを実施することの必要性・妥当性 ウガンダ国では給水施設建設による安全な飲料水の安定した供給を PEAP の柱のひとつである「貧困層の生活環境の改善」に資するものと位置付けており、「地方給水・衛生戦略投資計画(SIP15)」においては2015年に地方給水率を100%とすることを目標としている。我が国は1997年に無償資金協力「地方給水計画」を実施し、ウガンダ国中央部のムピギ、ムベンデ、キボガ県において給水施設が建設された。本計画協力対象のマサカ県、ムコノ県及びカユンガ県は既協力対象県に隣接し、地方部の給水率は、各々34.5%、59.1%及び48.6%と低い水準にとどまっている。したがって、給水施設を建設し安全な水の安定的な供給を受ける人口を増加させ、貧困層の多い地方部の生活環境を改善することが緊急の課題となっている。さらに、地方分権化に伴い、給水・衛生事業の実施も中央政府の水・土地・環境省水開発局から県水事務所に権限が委譲されつつあり、県水事務所の事業実施能力の強化も課題となっている。
3. 協力対象事業の目的（プロジェクト目標）
ムコノ県、カユンガ県及びマサカ県において、ハンドポンプ付深井戸給水施設建設、地下水開発調査・啓発教育活動用機材の調達を実施することにより、対象地域住民に対し安全な飲料水が安定的に供給される。
4. 協力対象事業の内容
(1) 対象地域 ウガンダ国ムコノ県、マサカ県、カユンガ県、 (2) アウトプット ・ 120 相当の村落に各村落に 1 基のハンドポンプ付き深井戸給水施設が整備される。 (3) インプット 【日本側】 ・ 掘削総延長 11,970m(深井戸給水施設 120 ヶ所相当)の井戸掘削及びハンドポンプ据付等上部構造物建設の実施 ・ 地下水開発調査及び住民啓発・衛生教育活動のための機材の調達 ・ 住民による給水施設の持続的運営・維持管理に向けた啓発・衛生教育活動の支援 【相手国側】 ・ 住民啓発・衛生教育活動に従事する給水官、村落開発官等の確保 ・ 井戸建設用地の確保

- ・ アクセス道路の確保、水源保護用フェンス取り付け、浸透枡建設

(4) 総事業費

概算事業費 7.03 億円(日本側 6.75 億円、相手国側 0.28 億円)

(5) スケジュール

詳細設計期間を含め約 31 ヶ月を予定

(6) 実施体制

実施機関：水・土地・環境省水開発局

5. プロジェクトの成果

(1) プロジェクトの裨益対象の範囲および規模

ウガンダ国ムコノ県、マサカ県、カユンガ県

裨益人口：約 36,000 人

(2) 事業の目的（プロジェクト目標）達成を示す成果指標

成果指標	事業実施前(2003 年)			事業実施後(2006 年)		
	マサカ県	ムコノ県	カユンガ県	マサカ県	ムコノ県	カユンガ県
地方給水普及率	34.5%	59.1%	48.6%	36.3%	60.8%	50.9%
地方給水人口	290,244	346,595	236,210	304,944	356,495	247,610
対象村落給水水質	ウガンダ国水質基準値を超える水質項目がある。			全ての水質項目がウガンダ国水質基準地を超えない。		
対象村落における水料金の徴収が継続されている水衛生委員会数	0	0	0	49	33	38

(3) その他の成果指標

水因性疾病罹患症例の減少

6. 外部要因リスク（事業の目的(プロジェクト目標)の達成に関するもの）

- ・ 施工段階において井戸成功率（既存井戸データの解析と物理探査結果により設定）が著しく低下しない。
- ・ 地方給水・衛生事業に関わる県行政府の職員の雇用を含めた事業実施に必要な予算が継続的に確保される。
- ・ 人口の急激な増加がない。

7. 今後の評価計画

(1) 事後評価に用いる成果指標

- ・ 地方給水普及率
- ・ 地方給水人口
- ・ 水質
- ・ 対象村落における水料金の徴収が継続されている水衛生委員会数

(2) 評価のタイミング

2006 年以降