Appendix-4 Minutes of Discussions and Technical Notes

- 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 (kerninafter seferred 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 (herninafter referred to as "the Project") and connected the study to the Japan International Cooperation Agency (herninafter referred to no "JICA").

JICA sent to Uganda the Basic Design Study Team (hereinafter referred to as "the Team"), which is headed by Mr. Shinichi Matsuara, 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 Upanda, and conducted a field survey at the project site.

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

Kampola, 20 February 2003

Mr. Shinichi Matsuum Leuder Basic Design Study Team Japan International Cooperation Agency Japan Eng. Bezalel, K., Kabanda Permanent Secretary Miniary of Water, Londs and Environment Republic of Uganda

ATTACHMENT

1. Objective

1. 1.

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

1. Project Sites

The Project sites requested by the Ugandan side are located in Masaka, Mukono and Koyunga Detricts as shown in amera-1.

3. Responsible and Implementing Agencies

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

4. Items Requisited by the Government of Uguada

After a series of discussions with the Team, the Ugandan side requested the items shown in annes-3, which were different from the original uses. The new list was considered based on the actual situation of related works and strengthening of community enlightnament activity. The Japanese side explained tent 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 appropriatesess 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.

8. Japan's Grant Aid System

- The Ugandan side has understood Japan's Grant Aid system explained by the Team as described in unnex-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 consultance of the Team will proceed to carry out further studies such as interviewo/surveys on

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

- (2) Based on the Minutes of Discussions 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.

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 "Powerty Endication 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 Ugandat aide from the Japanese side as arour 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 savitation Operation Plan: 2002-2007 (OP5)" to a possible extent. Concerning the requirements No.1 to 6 excluding No.4, targets for each requirement would be act according to the result of this anoly, and facilitation would be conducted in the implementation stage. As for the requirement No.4, both sides agreed that in view of astrainability, 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 commutity cannot fulfill the conditions, it is excluded from the Project sites. Both side agreed that the necessary procedures towards critical equirements shall be confirmed around May 2003 when the mission for explanation of the dualt seport comes to Upanta.
- --- the Project shall adopt design oritoria, guidalines and method of monitoring stated in OP5 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 exlightenment 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
- Attiistance for implementation of community onlightenment 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 Ugandam side promised to facilitate the district administrations to arrange adequate personnel and budget for supporting villages to ensure statisticability of the water supply facilities.

Both sides agreed to confirm the roles of each concerned body and nearessary measures to be taken for proper operation and maintenance of the water supply facilities secured May 2005 when the mission for explanation of the draft report comes to Uganda together with the district water officers and roles of personnel.

(4) Equipment and materials requested for procurament

Both sides agreed that the recessity of the equipment and materials requested by the Ugendan side as stated in annex-3 shall be examined from the view point of purpose of uss, 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 testiest 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 Ugandam side construct 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 corres.

(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 mater-5. The Uganden 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, ense of construction and bydrogeological conditions. Actual sites will be selected from the list, applying the criteria below:

- demographic condition
- existing water facilities
- accessibility
- bydrogenlogical conditions
- water custity (applying Ugandaa guidelines)
- capacity for operation and maintenance of the facilities at community level

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- absence of water projects by other donara/NGOs

- willingness to pay for operation and maintenance of water supply facilities by community

- technical and managerial competence of the implementing organization

- sanitation and hygianic conditions

(7) Type of water sapply facilities

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

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(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 faird would not be drilled. An alternative drilling would be conducted is a village, which has a large population and is estimated to be capable of operation and maintenance of facilities, from the candidate village liss (annex-5) with due priority consideration.

(9) Other Responsibilities of the Ugandan side

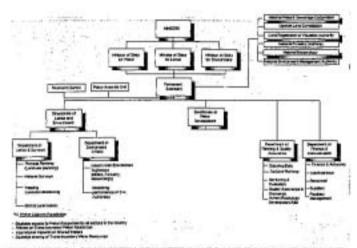
The Ugandan side agreed to be responsible for mobilizing villagers for timely construction of access roads. fences around the completed apron and the drainage pit



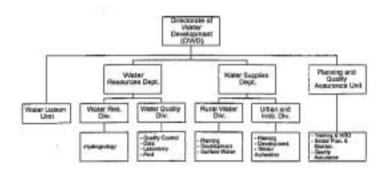
PROJECT LOCATION MAP

Annex 2

S. 34



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



ORGANIZATION OF DIRECTORATE OF WATER DEVELOPMENT (DWD)

REQUESTED PROJECT

1. Construction of 150 boreholes with hand pump in Masaka, Kayunga and Makono districts.

2. Provision of the following equipment and materials.

No.	Dects	Quantity						
1. Sec	vey Equipment	100						
ш	High resolution electrical resistivity meters for groundwater surveys and geologging	1 sut						
1.2	Poetable water quality testing kits for Maaska, Kayunga and Makono	3 sets						
13	Water level meters/dipper for Masaka, Knyanga and Mukooo	3 sets						
1.4	e-wheel drive field vehicles - pick up with capacity 2,800 cc for use by the headquarters for supervision							
2. Eq	alpment and Materials for Enlightenment and Education							
2.1	Laptop computers with CD rewritable ROMs and internet ready	1 sut						
2.2	GPS for Masaka. Kayunga and Mukono	3 sets						
2.3	Portable polor printers for laptop computers and accessories	1 no.						
24	Visual and sudio equipment, some multi 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	Comparer comparible 5-video and slide projector to be used as visual aids in seminars and workshops for the communities	1 set						
2.6	Digital video cament	1 set						
2.7	Digital still camera	1 10.						
2.8	Motorbile for Mukono, Kayunga and Masaka	3 805.						
2.9	Bicycles for HPMs and Community Development Officers in Makono, Kayonga and Masaka	I lot						
2.10	Repair tools of hand pump for HPMs in Miktono, Kayunga and Maeaka	I lot						

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

A - 13

JAPAN'S GRANT AID

1 Japan's Grant Aid Scheme

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

()) Grant Aid Procedures

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

- Application
 - Study (Basic Design Study conducted by JICA)
- Appraisal & Approval
- (Appraisal by the Oovernment of Japan and Approval by Cabiant) (The Notes exchanged between the Governments of Japan and the recipient country)

(Request made by a recipient county).

Determination of (The Notes o Implementation Japan and th

Finally, 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 Grand 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) Jepanese consulting firm(s).

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

Fourfuly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes (E/N) signed by the Governments of Japan and the recipient country.

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

(2) Hasic Design Study

1) Contents of the Study

The sim of the Basic Design Study (becafter referred to as "the Study") conducted by BCA on a requested project (becafter referred to as "the Project") is to provide a basic document necessary for the appealail of the Project by the Government of Japan. The comment of the Study are as follows:

- Confirmation of the background, objectives, and benefits of the requested Project and also institutional capacity of agencias 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, aocial 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 it's self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may full outside of the junidicitien 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 Discussiona.

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) solucted tarry(les) 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 rechnicel continuncy.

(3) Japan's Grant Aid Scheme

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1) Exchange of Notes (E/N)

Jopan's Grant Aid is extended in recordance 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 Orant Aid" means the one fiscal year which the Cabinet approves the Project for. Within the faceal year, all procedures such as exchanging of the Notes, concluding contracts with (a) consulting firm(a) and (a) contractor(s) and final payment to them must be completed.

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

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

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

Annex 4

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

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 accessivy to secure accountability to Japanese taxpayers.

5) Undertakings required to the Government of the Recipiest Country

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

- To secure hand necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- To provide facilities for the distribution of electricity, water apply and drainage and other incidental theilities in and around the sites.
- iii) To secure buildings prior to the procurement in case the installation of the equipment.
- iv) To ensure all the expresses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products parchased under the Grant Aid.
- v) To exempt Japanese nationals from castorns duties, internet 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 Courses.
- vi) To accord Japanese nationals, whose services may be required in connection with the capply 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 property and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than these covered by the Grant Aid.

7) "Re-majori"

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

- 8) Basking Arrangement (B/A)
 - a) The Government of the recipient country or it's designated authority should open an account in the mene of the Government of the recipient country in a bank in Japan (hereissfler referred) to as "the Bank"). The Government of Japan will, execute the Grant Aid by staking payments in Japanese yes to cover the

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

- b) The payments will be made when payment requests are presented by the Book to the Government of Japan under an Authorization to Pay (A/P) issued by the Government of the racipient country or it's designated authority.
- 9) Authorization to Pay (A/P)

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

- 2 Grant Ald Procedure
- Flowchart of Japan's Grant Aid Proordares Refer to Fig. 4.1.
- (2) Major Undertaking to be taken by Each Government Refer to Table 4.1.

Annex 4

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Fig.4.1 Flow Chart of Japan's Grant Aid Procedures

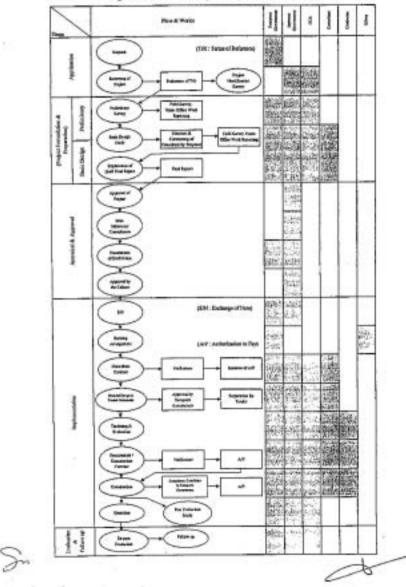


Table 4.1	Major Undertakings to be Taken by Each Governments	

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-	b. The gas supply system within the site		1
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Annex 4

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84. 9	40	Materials	Ebuels	Kanana	258	2	10 m	1
Sec. 10	41	Neveneria	Shark	Kernelle	307	2		
Ke- 11	4	Advaid	Eleade .	Waterstop	319	1		
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Sc 13	1	Eabu	1 Ebade	Wateralat	. 1047	1		
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Ep 18	1	Manue (T)	That	Walmala	564	2		
Ber 12	1	Valicate-A	Elbania	Walnalas	942	3		1
E. 18	-	Hamahoga	Division	Waterclas	418	3		1
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10-30	1	Water the	10 marks	Vehicle	974	3		1.
No. 21	5	Degnie	30empertur	Buaners.	1008	5		1
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Rec. 27	-18	Fidenita	1 Morgan	Kernege T.C.	346	1		1
Ko- 28	-46	Kanjari W	Mogete	Keywage T.C.	418	1	11	1.1
16- 59	31	Depriverse	a Mangania	Eurysage .	750	- 3	1.0	1
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Excluded Villager

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	10	Bearging	Disate	Galleens	641	3		37
	14	XLibra	State	Gallegia	425	2		17
	-41	Nulceus III	Sinte	Kayotta	101.5	1 3	-	17
	- 28	Glasi	1 Margani	Busses	169			107
	17	Beladati	Haripold	Kangalassin	1021	4	1.2	27-54
	.18	Key of Tabl	1 Margana	Dargolumite	908	1.1		P-84
	. 18	Contractionality	Namina	Kangalturaine	723	2	() ·	P-5p
	15	Erar	- Human	Harles	802	1 1	1	107

No. of cached villages. 2

Selection of larget villages for the project

The full owing villages are evolvabed from the last of the responsed villages. 1. These villages which have a deep tolerwith an presented spring facilities. 2. These villages which do not have a prepar review. Here becaude on a takent. 3. These villages which devolved information is not presented to the tist. 4. These villages which have a duallow with view based gauge suit is good condition.

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Annex 5

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

Based on the Minutes of Discussions (herminafter referred to as "M/D") on the Basic Design Study on the Project for Rural Water Supply in Central Uganda (herminafter referred to as "the Project") signed on February 20, 2003 between the Basic Design Study Team (herminafter referred to as "the Team") of Japan International Cooperation Agency (herminafter referred to as "JICA") and Directorate of Water Development (herminafter 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.

Kampela, March 19, 2003

Chief Cohestent, JICA Basic Design Study Team for the Project for Rural Water Supply in Central Uganda Eng. Magisha Shillingi Assistant Comminister, Directorate of Water Dovelopment, Ministry of Water, Lands and Environment, Government of the Republic of 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 150 villages listed in Table 1 are requested for the construction of bareholes with hand pump. The implementation of construction will be determined after complexity as signilated 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 stipplated in M/D.

3. Numbers of Hand Pump Machanics in Sub-counties

Ugandan side agreed to confirm the available Hand Pump Mechanica (HPMs) in each sub-county and awage the proper specialists in case no HPM is available in the sub-county by the commencement of the project implementation.

4. Use of Propaged 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 menitoring groundwater levels in the eninting 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 insees relating to the Project such as the agreed items of M/D, etc. in order to swoid misunderstanding by the district officers about the Project.

6. Water Quality of Existing Bowhole in Mukono and Kayunga Districts

The Ugandan side agreed to confirm the water quality data (sepacially Nirate) of the existing boreholes in the Mukono and Kayanga Districts which the Toam 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

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le t	Dubwgs #	Bulancisto	Eigene	1429794	90945379	12/6	600	and the second			c	
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6.6	Printing MI	Bukrossminibi	Digne	349834	##515#	1295	-	- Caral	0	8	c	A
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14.5	Kipele.	Bekernschadt	Barring-	310086	WIDOH1	1206	400	A .	1		9	c
4.41	Kjadula A	Buksussosimhi	Butwapi	181114	9974017	12.16	450	A .	8	-	1	-
10.10	Kagaodo	Putamanaimhi	Deterge	540948	9940313	1340	710	•			-	and the second s
Ne Ul	Camando	Dubonesaitehi	Chiege	SARA	9977841	:225	640	*			1	
Ma 32	Eautie	Balansovinta	Chings	343205	9979634	3347	440				1	
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Ma 14	Kagoga 19G	Belonarcisti	K,bingt	HIGH	99798004	1248	1013	A _	1			1
Ma 21	Busenia	Buitsmannights	Linds	345858	9981144	1280	496	A.		1	D	1
Ma 30	Cashorin	the barranse shafe	Einste	334409	0001222	1279	590			1	. 5	
Ma 11	Lubrane Pitt	Buitsmannipalty	Cinute .	344808	9998245	3314	530	A	0			A.
Ma 10	Killinga	Balansaminta	Kinots.	339340	10071600	189	794	A.,			8	
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Ma 30	Europette .	Bullate West	Keeks	310132	9922844	1214	180	A	A	1 10	1 2	G
Ma 31	Kalagere	Bulane War	Kietla	348954	9912434	1,908	439	A			1 2	6
Nie 12	pipersites.	Euker-West	Diep	346294	296/830	1170	400	A	-	1	1	1
Ma 28	Ulgaolo	Butero Wur	Khings	230417	9996230		438	A				c
Nie 34	Nyesdali	Dubrie West	Khinge	348848	9938155	-	178	•	1	-	1 i	1
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Ma 30	Lyehibilai	Solutio West	Kjannige	336000	9962998	()48	728	A .	1		-	1
Ma 71	Luissie	Suline Veri	Uyeleige	201520	9947710	1259	51	1.	L.A.,	A	-	Ê
Ma 38	Eyampie	Relates West	Lunige	219545	9038548	-	548	A.				
Ma 77	Restores	Bulatia West	Lwingo	ALC: NOTE: NO			101	A	1.			A
Ma 40	Experiences	Bulture Water	Longs	350081	19130230		390	A	1.0	1	8	C C
Ma 41	Lunnes	Bulace West	Lungs	322769	3941362	4308	600	A		1	c	0
Ma 41	Country	Bullets West	Lengt	330438	1051214		490	A	10	A .	8	- 0
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Ma 44	Looniyege	Bulletin West	Malongt	308791	1955744	1403	830	A	0	A	c	. 0
Ma 45	Kanyarpai	Building West	History	MINT	SALATI	1312	805	A	1.0	A	c	۸
Ma 48	Katanbia	Balado West	House	100381	19140000	1008	120	A	3	A	1.	
549 47	Value	Buton West	Mague	2019828	19441576	1034	400	A				A .
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Table 1 LIST OF THE VILLAGES REQUESTED FOR BOREHOLE CONSTRUCTION

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Ma 18	Estange A	Kalanga	Kabuga	368787	10066179	1200	280				G.	_
Ma 29	Nonmoline P/S	Ealongs	Kymulina	141402	9990913	1153	1300	A.,			0	
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n	Assessibility to the selected villages	Accessible changes the year	According with some	No acono
m.	Declaps modifier	Seligenery make and average deposits	Dynamics and Granism complex	Casia complex
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Table 1 LIST OF THE VILLAGES REQUESTED FOR BOREHOLE CONSTRUCTION

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	Philippine	Bulles	Kensiy	497907	SEMISED.	1,001	-00	*			e	
_	ada Kitumi	Beibne	faretto .	492799	SEPHE	1,389	64	Α.		A	0	÷
Ma 3 Lab	teda:	Balloot	Nija	312005	4013171	1,346	214			. 8	5	¢
_	Diff date	Buitter	NO.	308135	6011396	1,220	\$105	A	. 8	. 8	9	*
	1000	Baker	Higherite	508649	100431198	1,01	#20	A	. 8	A.		
	talse IFE	labe	Najmelie	207814	0040138	1,400	1319	A	. 8	•		68
and the second second second	duerville	Inites .	Hangton	496300	0025847	1,314	180		. 8			A
the second se	No ME	talter	Hangton	SREIG	0001.009	1,318	118		A		c	E
and strength of the local of	Autorpe	Bailtes	Houge	101110	10040047	1,368	1,681	- A.			1	
_	iunda	Builture	Herner	104118	0040103	1,110	450					. A
	ngala i 116	Balana	Harman	106224	0042934	1,178	110	٨		3		A
My 18 04	the second se	Believe	54	494356	0012300	1.324	200	*	1	A	8	
	vigite Cartor	Balan	34	490818	-	1,312	180				0	
	del .	Balant	Wali	115188	00010401	1,189	1,288	C	*		A	
And and a second second	A display or h	Brites	Weday	111308	-	UP.	100	A	A .		B.	
Address of the Owner, where the owner, w	and Marine 3C III	Bullys .	Walie	112239	BIMON	1.190	2,400	A	A .			
- Owners of the local division of the local		Makoos	Dama	494315	8642481	1.676	120	A	A		A	
- and the set of the	adent .	Matana	Gene	467998	BG4843	UH9	303	A	A			e
-	dagene .	Malana .	Hans	1708	1040588	1.113			A	8	A.	1
	while Lover side		Bales	5009915	BEHETU	1,259	2,000	6	A	B		e
	-	Bellen	Havis	490(11)	006001	LOEI	1,390	c		b	A	3
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COLUMN TWO IS NOT	ant (II)	Malanes	Epurgen		0051394	1178	1,100	A	A			6
-	hostigrage	Malaraci	Epanetria .	4259435	0029987	1500	401	A	1 2		A	1.1
_	Lante D	Malacen	Haltimage		-	1,258	100	1÷	A	A	1	1 1
and the second division of	mada	Maharet	Halinoge	486731	0051:588	1.2/7	18	1	A	A	1	1 1
	skalere	Multime	Halisorga	411115	0029843	1310	200	i A	÷	1 .	1 8	1 1
	enewerjein Seh. 2144	Makana	Name	663040	0042959	1,663	820	A A	1 i	1	8	
Mi 10 Ki	anga .	Mukimi	Hotjawikija	479785	003054	-	1,206	1 A	1	1	0	1 .
MU D BA	punge	Mulano	Hotjes-Xoja	400416	100.03568	1.000	2,263	-	-	1	0	-
Ma 12 184	ania .	Mubato	Nanjeu Xaja	475684	0010728	-	T28	A	1 1	-	Ť	A
Ha 21 Ke	nin	Paidten	Easter	476394	8012904	1 100	1,400	And in case of the	1÷	17	t÷	-
Ha M H	german NS	Palatine	Eastern	180641	0072549	1.1410	1,000	A .	÷	1.	1.	6
14a 22 M	lubasela IPS	Multifulie	Essere	482174	007+836	1000	1.300	+ +		+:	tî	+ ;
	swongs	Haldford	Einsepalds	483002	0010030	1.000	1.200		A	÷	t÷	1 0
196 JT 80	aundre .	Haliforni	Einmysääs	-61139	0000738	1.000	1/000		+î	1.	+ -	
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Ma 41 Ca	alahi .	Halilens	Happin	494671	0041110	1000	- 50	A	-		÷	-
Ma 42 M	layalight mage	HALFLORE	Herin	461979	0047345	- 10.00	400	A			-	-
No. 41 (H	North I	Tel: Bran	Numb	490661	0069431	1000	190	A		++	A	-
141 44 16	anone	Makifuna.	Sons-Samupanja	482458	0077344	1,000	-m	A		-		
Mi 41 34	Arigange 153	Hallon	Son-Namopage	419003	0080061	1,39	450				1	-
	lane as	Saldense	But Waterprop	647714	88335699	LON	400	۸.	8	1.1		

Table 1 LIST OF THE VILLAGES REQUESTED FOR BOREHOLE CONSTRUCTION

1					TH I	Althula	Pupele-	Surra of	-	Geology	Tapo	Apparent
No	Village	Genty	Sd-mety	- E		Actes	- 244	Webl	-	-	Desition	Real
fy i	Gene	Ebash	Binair	484518	0127012	1,89	- 507	A	A		8	A
Kp 2	Manimula	(Dania	Biash	490218	0031366	1,812	634	A .				A.
Kp h	Guerr	Eduals	Culture	4799601	0036308	1,065	594				A	A
Kp-4	Kingala	Eduade	Oslans	496801	0.09808	1,062	-01	. A.			3	1
Kp 1	Nanalive	Eduado	Calarys	410109	0031768	1,618	390	A.		1 H_	A	
Kyń	Gash	Literate	Calinca	485251	0144787	1,007	625	A.	. 8			¢
Ky 1	Num	Mash	Onlines	480397	-	1,000	408			- H.		
Ry II	East	Manda	Kayante	481730	8100231	3,040	717	. 4				5
Eg #	Makabulu	Made	Expanse	480435	00091234	1,003	992	A			. 0	c
Ky 10	Phonese 1	Tests	Expense	400411	6400113	1,000	307	0	. 8		. 0	e
Sy II	Buternla A	Wash.	Waturday	10,000	0000430	1,989	310	A .	. 8	- 8	.0	
Er II	Dutamete 8	Reals	Webucks	683075	0000544	1,886	488	A	. 8		A	A
Ry 13	2 erail	Basis	Waterste	amottó	0002360	Lieu	1007	A	0			A
Ey 14	(Giełna	Basir	Wednesday	486547	000836002	1,090	936		٨			۸
of the same of	Konvas	Ibaie	Waheeda	490074	0054482	1,100	1983	A.			8.	
Ey 15	Name (%)	Etasio	Walesda	491363	0000154	1,108	364	¢			A	
Ry 16 Ry 13	National	Ebash	Walnutki		0091026	1,817	NI.		A	2		
-	Conceptual design of the local division of t	Dank	Valueles	412308	8051580	1,683	618	A			A.	1
Ry 18	Nanabega	Ibah	Walnaska	411540	0047507	1,405	10230					e
82.18	Naarida	Ibali	Valuelle	4875.37	80020734	1,079	-	A	A		. 8	
Kg 20	Weberoka	Theajati	Basses	100400	00600038	1,620	3666	e	A			
Kp 31	Begela	Manjara	Bannan	40681	DOED/R11	1,116	The		0	Ð		0
Ky H	Kapoge		Branan	40.84	00880300	LH	110		A	B		A
Ky D	Chele	Magiry	Busses	500836	00623314	1.114	1007			B	A	C C
Ky 34	Fainerste	Haring	Englished	\$90713	0000786	1.000	540			8		A
89.35	Elaberi	Maajoro	Kenne T.C.	499911	-	1.063	708				D	8
83 26	Raabe Hitsytatge	Hergeru	and the second s	49(228		1,478	144	1				A
Ny IP	Histo	Hageu	Keynege T.C.	dates		1,004	100	A				
Ry 18	Magin's V	Hianjera	Keysage T.C.	(NIC)	- Charles and a state	1,318	780					
FF 28	Ratyone	Stargen	Kepanga	411218	-	1,008	11,30	1 4	A	1.		A
乾隆	Kasi	Yangana	Kapunga	mat	-	1.043	-	A	1			-
Kg-31	Tatitoren	Finger	Konge	412884	-		412	A	8			
Kg 31	Labore	Hargen	Kayunga	447195	-		HZ	A		. 0	B	1
Ky 31	Epster	Phoperty	and the second division of the second divisio	494729			1055		8		B	A
67.34	Halouotte	Shajati	Keyonga	400348		-	1563	A .	A	1	8	1 1
6 ₁ 10	Malign	Nuejaru	Hadge		-	-	100	A	A		8	1 4
67.38	pGrieff	Hasport	Badge	3019030			788	A	A		8	
Rg 27	Davit	Magane	Faige	-	-	-	1277	1	1	Ť		
Re 38	Kala	Muques	Talp	496500	-		1.600	1	T A	ti	1.	1
84.28	Natarocky	Nucjeta	Face	504525			1004	-	1 A	1 1	1	1
$\mathbf{E}_{ij} \in \mathbf{I}$	Naniom's	-Hanjah	Heigs	301004			442	1	12	1 8	1	1
82.41	Goobulnia	Walders	Havings	494126	0471381	1444	444				-	-

Nov. 8.6.5. Insur manthy sheet - Samar in - Hage of Super- of Kamarine Said in the sight for an instal in Kinet, spith of Kinyenja an alastic a shelpen

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Table - 2 List of Equipment and Materials Requested

No.	Items	Quantity	Remarks
1. Sur	vey Equipment		
1.1	High mechanism electrical resistivity meters for groundwater surveys and prologating) set	Attached to DWD H/Q These are four (4) hydrogeologists who can operate the equipment.
1.2	Portable water quality centing kits for Manaka, Kayunge and Mukono	3 sets	Attached to District Water Offices
1,3	Water level meters/dipper for Masaka, Keyenga and Mokeno	3 sets	
1.4	4-wheel drive field vehicles - pick up with capacity 2,800 oc for use by the boulguaters for supervision	2 105.	Replace of the existing vehicles Attached to DWD H/Q
2. Eq.	sigment and Materials for Enlighteene	nt and Ed	ucation
2.1	Leptop computers with CD rowritable ROMs and internet roady	1 set.	Attached to DWD H/Q
2.2	GPS for Massica, Kayungn and Mulcono	3 sets	Attached to District Water Offices
2.3	Portable color printers for laptop computers and accessories	1 80.	Attached to DWD H/Q
2.4	Visual and audio equipment, some tools and cut models of cylinder, band pump units are mounted on vehicles for DWD staff to educate communities for operation and maintenance	L set	Anached to DWD HVQ
2.5	Computer compatible S-video and slide projector to be used as visual aids in seminars and workshops for the communities	l set	The equipment will be utilized in operalitation with two (2) socio-eccentists of DWD.
2.6	Digital video carnors	1 set	50
2.7	Digital still camera	1 80.	
2.8	Motorbike far Mukono, Kayunga and Maaska	3 808.	Attached to District Water Offices Assistant Officers and County Water Officers will use motorbikes.
2.9	Bioyoles for HPMs and Community Development Officers in Malacoa, Kayunga and Masaka	106 ncs.	53 nos. will be leased to HPMs of each sub-county.
2.10	Repair tools of hand pump for HPMs in Mukopo, Kayanga and Masaka	53 005.	Attached to District Water Offices

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MINUTES OF DESCUSSIONS 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 Match 2003, Japon International Cooperation Agency (Introinafter retireved to as "JICA") dispatched Essaie Design Study Team on THE PROJECT FOR RURAL WATER SUPPLY IN CENTRAL UGANDA (herritrafter referred to as "the Project") in the Republic of Uganda (herritrafter referred to as "Uganda"), and through discussion, field servey in Uganda, and technical econimation of the remains in Japon, JICA propared a draft septor of the study.

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

As a result of discussions, both parties confirmed far main items described on the attached interta-

Kampala, 8 August 2003

UTWOK_ Mr. Shinichi Matturara

Leader C Besic Design Snetty Team Japan International Cooperation Agency Japan

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Eng. Benalel, K. Kabundo Permanent Societury Ministry of Water, Lands and Environment Republic of Uganda

STADAN 20

ATTACHMENT

1. Components of the Draft Report

1.1.1

The Government of Uganda agreed and accepted in principle the components of the draft seport replained by the Team.

Minutes of Discussions (28 February, 2003)

Forth sides read and confirmed again all the contents of the previous Minutes of Discussions, on the basic design study of 20 February 2005.

3. Japan's Grant Aid Scheme

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

Schedule of the Study

4

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

5. Other Relevant Issues

The following issues were discussed and confirmed by both sides.

5.1 Components of the Project

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

- Beachola drilling of 11,970m (approximately 126 successful locatedes)

- Installation of casing pipes and scenars and construction of superstructures for approximately 120 boroholes
- Procurations of equipment and materials listed in Arreno-1
- Support on community enlighteneous, sentences and hygiene education and education for facility
 operation, maintenance and management by communities ("Soft Component")

5.2 Villages for borehole construction

Both sides agreed that the target villages for horshole construction under the Project would be one franched and twenty (120), our monoscial borehole for each village. The target villages for borehole construction are listed in Annew-2. The Ugendan side promised to avoid any further duplication with other possible projects in the target villages of the Project. Is case there is any duplication, the village

3

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

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

Both sides agreed that under the Project, unit rate contract with limitation of drilling depths (11,970m) 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 11.970m depths;
 - The sumber of water supply facilities constructed under the Project will be less than 120. Construct price for installation of casing pipes and screams and construction of superstructures for the rost of borcholes will be adjusted.
- b) to take the total number of water supply facilities mashes 120 before drilling of 11,970m depths. Contract price for the next of drilling depths will be re-distributed for drilling work and important work for appropriate number of water supply facilities. Drilling work and importantiate work will be continued, and the number of water supply facilities constructed under the Project will be noted than 120.

5.4 Unsuccessful borubais and alternative drilling

Both sides agreed due is 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 mesuccessful, the third one would not be drilled. An attenuative 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 Asnex-2 with the priority consideration.

5.5 Operation and maintenance of facilities

Under the Project, software assistance will be done to support community enlightenessest, annitation and hygiese education and education for facility operation, maintenance and transgement by the respective villages with support from the sub-counties, districts and DWD.

Both sides confirmed importance of monitoring and support by district and sextral administration to the villages. Directorain of Water Development (DWD), Ministry of Water, Landa and Environment promised to promote to have diarrist administrations of target districts allocate morestary number of water officers and community development sestmants to facilitate proper operation and maintenance of the facilities by the villagers by December 2003 for Masaka District and July 2004 for Makoro District and Kayunga District.

5.6 Coordination with the "Receil water and sositation Operation Plan: 2002-2007 (OP5)" The Project will adopt the "critical experiments" stated in the OP5 through software assistance activity. During pre-construction winkshop in the software assistance programme, setsification for villagets will be done and each village is required to collect maintenance fee of 100,000 Ugandan Shellings as conditions for commensuent of community.

Both sides agreed that if a village consot fulfill the conditions stated in Amou-5 and is judged that the villagers' willingness to delfill the conditions is insufficient, it will be excluded from the list in

2

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

5.7 Budgetary arrangement of Ugandan side

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

5.5 Other Responsibilities of the Ugandae side

The Ugandam side agreed to be responsible for mobilizing villagent for timely construction of access mode, fences around the completed apron and the trainage pit. Also, it was confirmed that DWD is responsible to instruct strage of water quality analysis kit which will be equipped to each district offices.

Specification and Quantity of Equipment Covered by Japan's Gravit Ald	Specification.	and Quentity o	I Equipment (Covered by	Japan's	Grant Aid
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No	lieter .	Quantity.	Specification Details	Sinice
1. A	graphent for Field Sume	8		
4	Bactric Resistivity and Electrical Logging Squepword	1 ani	Electric Resistivity 1 Digital stacking type, Range - (DV to +10V Electrical Logging : NR more Stacker-re, SP PE 167 or 64*, NG 103 GPS -	Runal Water Dip DWD
1.2	Partable Watar Analysip kij	330	Furtable unit (Parameter, Total Solutis, Total Hardwoor, Fe, Mo, F. Cl. SD4, NO2, NO31, Tarbellin: Mose (0-14.9 arSton), pH Mater (0-14 pH), Registra (for 200 years rangeles).	District Office
13	Water Level Means	3124	Rope weathod with thereasonation (198) in largel()	
14	Valvietes for Sepervisory Works	2 enia	Displacement: 2000 cc, Double Cell Pick-ep type	Runi Weier De DWD
1.59	appoint for Administrati-	re Training :	red Facilitation	200
11	Laping Competer	3 ses	CPU; 3.0 CHz, Memory; 296 MB, HARD DISK; 40 GB CD-R/RW, Modan	Rural Water Dp
2.2	Colar Primur	1.941	Color. Max size; A4, Memory; \$12 KB	DWD
23	drs	3431	Rotainty 12 alasteel, Accoracy 7 m, 95% 2D 8545	
24	Section current readed of the lendpoint	3 unio	Works: U2/U3 Hundpurep	120
2.5	Digital Still Contern	3 kits	2 million First, Zoon Low, x 3	Destrict
2,6	Matamycle	2 1000	Displacement, 125 or, OE-read type	Office
3.7	Hand Pasep Maintenance Kie	469045	Menufacturer standard topic	

- VIII	100.00	6	Bore	in the	E al	-	int.	Sec.	
	- est	~	Provide la		-540	1940	ues	DR).	

Ma	Wileps	County	Subcasery	Eley.	
dan site	District (49 Villages)			Lan.	Pop
Mal	Bukango II	BultransinN	Disaut	1.235	
Ma2	Kanabya	Bukamaneimbi	Ketaafa	1,236	283
Mail-	Kipespatal PVS	Bulk presentation by	Bunn	1,329	590
4#4	Kyowanala	B-Approximate da	Bigini	1 1,145	900
465	Manne	Bukinggeneints	Regard	1 1.108	1.00
Mati	Montal PIS	Bukarmanairabi	Bigtos	1,199	455
Malk	Kapitan	Ballognansimbs	Bulanga	1.346	400
Mate	Kymiole A	Bakorganista	Butengs	1,236	
Ma30	Kapash	Bakeranajmis	Butenga	1,340	450
M#34	Kappen N/C	Bukomanimbi	Kokaya		718
Ma 15	Bawanka	Buttomanajaphi	Kinds	1.248	1.00
Ma 16	Kyanhonia	Bekermminde	Exanda	1,380	490
Ma 17	Lokeres NS	Billionamaimhi	Elenis		390
Ma 18	Frinds	Balcomensimal	Kateda	1,316	520
Ma 19	Kyskiswiga P/S	i Failorana shi	Example	1,297	250
Ma3t	Mastern	Felicenstrumb	Kitianda	1,309	640
Ma 10	Kawa	Balanto Sent	Burings	1,254	490
Ma 15	Effective P/S	Takoto Sat	Evanataliaise	1,291	600
Ma34	Kyesiss 7/5	Baloto East	Kymemakaka	1,134	621
49.25	Kane DC	Balcolo Tast		1.228	E (0)
Ma 36	Manuanao	Saketin Ensi	Evenematata	1,250	.345
Ma29	Kyetune	Pekoto Vical	Malaagwa Kerekka	1,282	1.43
Mall	Kyomatona	Bakoto Wasi		1385	:533
Ma39	Kibasle	Bakoto Wegi	Kagelika	1.148	638
Ma 30	Busine	Baketo West	<u>Ejittika</u>	1,346	728
Ma 12	Materia	Balloto West	Knohke	1.370	790
Ma 15	Disando	Balloso West	Kitingn	1.270	400
Ma34	Ngondari	Baluceo West	Eliego	1.313	480
Ma35	Busho B	Ealizes Weg	Kitan	1.256	275
Ma26	Louisbille	Balacto Wee	Krassings	1.313	455
Ma32	Laboola	Bulliceo West	Kyaranga	1.342	7,39
Ma.39	Kyeune	Bakew Was	kyszaga	1,268	520
Mad2	Kreining	Baksto Was	Lormgo	1.785	535
Mad3	Kalobagu	Bakato Wat	Larmgo	1,290	400
Mailó	B.obsections	Baknes Wat	Malungo	1.307	2,400
4.47	Sabrida	Balketio West	Negrot	1,529	120
Ma 48	Eckolub	Bisketio West	News	1,384	400
Ma 50	Kyantale	Ballego Wos	Neingwa	1,198	700
MaSI	Kirwala		Mittant	1.1222	279
Ma 53	Kimiento	Bulling Wittl	Héegwe	1.348	409
Ma 54	Bufurgo PiS	Kalange	Beknikde	1,346	220
Mall	Salespin 7/5	Salungu	Baiktalula	1,146	1.058
44.57	Gabine 1/G	initetto	Belladula	1.148	590
44.52	Kalumes A	Kelvets	Kolunge	1,3%	788
41.59		listera	Lakepu	1.790	198
45.60	Namalikesa MS	Kalanya	Kreen bys	1.293	1.340
Mail	Kamuwange Pt5	Kaleage	Leiters T/C	L14	1.139
Mael Mail?	Kapyaba	Kalanga	Loopbeng:	1,306	960
Maga 1	Sobriend	Kalanga	Levitoria	1.300	540
	Kisrodde District (33 Viteges)	Kalutara	Loudenze	1.192	345

Sr.

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Annes-2

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Annex-2

Villages for Borohole Construction

Village Nobikanyu Kasaksen P(S Mrijarda RJC	Roleve Baleve	- Subrounty Bulowe	Elor. 1,327	Prp. 1,200
Kazakowa P/S			1,327	1.200
	Redrot			
		Revolu	1,191	405
	Bakes	Mega	1,220	608
Berrarie	Bakee	Majjorabe	1.521	1/01
Kilaube WS	Bakwe	Najombe	1.485	1,290
		Nongwe	1,214	150
	Salve	Nowiga	1,168	1.682
	Bailine	Nyanga		150
		Neurge		300
	Baikes	Wakisi		1,900
	Baltwe	Wakiel		No
Websi Merket S/C Hins	Rolling	Wakie		2.400
Kapplage.	Makowo	Garas		210
Mitelale Lover side	Malopeo	Narut		38
Kituranga-B	Malabame			1,350
Kanast (Rp	Malano			1,700
KibonalKirange	Mulano			400
Kataoar B	Multiane			700
Kiroado	Mationo			390
Nakafatwa				200
Waxawajako Sala, Side		Manua		820
Kingja				1,200
Mporga				2,288
Blakere				1,000
Cierrage ME				1.005
Finnada and B				1,500
Calabi				628
Maxadigayaaga				455
Nioria				400
Nannasers 5.5.5.				450
None		Serve Manual Iner		420
District (38 Vilates)		tere viscopa p	1.2.4	493
	Thatk	Back	1.0.00	1.00
Numincality				647
EDwaarz				\$56
Kiryala				356
Namalara			and the second s	421
Man				290
				408
				713
				.598
				52.8
				411
				1,037
				936
				1.905
				554
				852
	the second se		1,983	848
			1.079	.874
				1.68
			1,106	1.344
Kitale	Managiona	Duncaso	1,102	744
	Minista Loven sele Karanga, 8 Karanga, 8	Bulamanya Barlow Solicolo Barlow Solicolo Barlow Malani Agooin A Barlow Daviso Weldonin A Barlow Solicon A Barlow Malai Mergi SC Thim Barlow Science B Medano S	Besternicht Bestern Notinge Beikennicht Beiken Notinge Beikennicht Beiken Notinge Beikennicht Beiken Notinge Beiken Beiken Notinge Malleil Beiken Notinge Malleil Beiken Notinge Malleil Beiken Notinge Malleil Beiken Waltei Malleil Mallen Waltei Bereiternichtweinig Mallen Normal Bereiternichtweinig Mallen Normal Bereiternichtweinig Mallen Normal Bereiternichtweinig Mallen Normal Bereiternichtweinig Mallen Notinge Stanzee Mallen Notinge Stanzee Mallenie Notinge St	Besternicht Bestern Notingen 1,144 Bekkennicht Bestern Notingen 1,145 Bekkennicht Bestern Notingen 1,115 Kengebol J.P.S. Bestern Notingen 1,115 Mallauli-B Bestern Notingen 1,115 Mallauli-B Bestern Notingen 1,115 Mallauli-B Bestern Walkie 1,115 Mallauli-B Bestern Mallau 1,115 Mallauli-B Bestern Mallau 1,115 Mallauli-B Mallauw Walkie 1,115 Mallauli-B Mallauw Walkie 1,125 Earstell-Evenne Mallauw Namab 1,285 Earstell-Evenne Mallauw Nymmpbi 2,302 Kanasee IB Mallauw Mallauw Nymmpbi 2,302 Kanasee IB Mallauw Meltaum Nymmpbi 1,318 Netastary Mallauw Meltaum 1,118 Netastary Mallauw

Villages for Britehole Construction

Na	Village	Cenerty	Submouthy	Bay	Pep
Ky 25	Kitabati	Nergers	1 Englishers	1.040	207
Ry.34	Kineke-Maymaga	Niegitra	Xayange T.C.	1 1.062	700
Ky 27	Nideebo	Nieujera	Eavenue TC	1.079	300
Ky 28	Numera W	Norgers	Kayeng TC	1.064	410
Ky 29	Barrage	Nonjim	Kannet	1.113	780
Ky 30	Kaesi	Norates	X avanta	1.0%8	1,121
<u>Ky</u> 31	Kalary.	Newsgra	Savings	1.063	085
Ky 33	Cisobellula	Konojstva	Kayanga	1.185	482
Ey 35	Kyanya	Naujora	Kayanga	1.058	842
Ky 34	Halcaneeta	Nanjera	Egymen	1.110	1,05
Ky 35	Nazion	Manjara	Natias	1.160	1,36
Ey 36	Kiriadi	Mingjøra	Naxies	1.676	808
Ky 37	Ekeredőr	Nunjary	Naxigo	1.040	790
Ky 38	Cisika	Naming	Naties	1.154	1.371
Ky 38	Naturojia	Mincipro	Natigo	1,964	1.80
Ky 40	Nunizweis	Numbers	Hazieo	UII	1.894
Kr 41	Combolala	Margera	Nanjeg	1.121	441

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Screening Guide and Conditions

	usingery	10000	Randaud für Possing
1	Required discuments	Latter of introduction of the local MGO/speedstate (introduction by DWD Nectoury MOUS/stars of senses	Must be "Yer"
2	Wyteon's participation	Proportion of women (WSC managing)	Must be more than 30%. If ten than 50%, ware have an acceptable/amplify reason. Ignify the terportant as questing, even if where occupy must take 50%, is to maningless if they are not given a diment to coprise their opinions or participate in officers to strategies.
		Understanding, investment, willingness, and autions toward pander downlopeness	
3	Promotion of lead 2, testitation and hyginas	Understanding, willingness and geboon secured large tagge Understanding, willingness and minimizing press in relation so sole matter Landow willingness to contribute to export and in altypices of tenderstrands, relatives	Maari be "Yas"
	Commenty ientrolation	Amount of cocususity exercitorian collected	Must be 108,000 UCS. If have than 500 merces, must have an exceptible/wavalike reason. The amount of storey collected is not above preparationers in the degran of understanding. What is inquirten in the degran of understand that handporten in that villagors fully understand that handporten in that villagors fully understand that handporten in that villagors fully understand that handporten in the villagors fully understand that handporten in the villagors fully understand withingtons of OEM is recognized, the plane in traffer, more, must be globarized.
		Coductaneting of OiLM (m and wellingness to pay	Mass in "Yes", Even if note that 100,000 UGS was ordered for conversity combusion, villagers' willingness to keep paying for OAM menute manuel for activities preparately Calify.
		Agreencest to participate is metawojco	Mast be "Yes"
\$	Sublearess of Lied and Overstap Coeffics	Agreement paper on land caratitution	Mart In "Ver"
	O&M Net	Weght in port or cases for Geliel Entranad Life of expetial experiments and ports Next parts availability and cents Materiansing: goals Entrana replacements creats Entrana replacements creats Entrana report and services for Cherciel. Weght is electrical instance conversion and many rise in OVAs in the next 4 stars	Meet be "Yis". When is meet topportune is then withgens sudamized the responses of ORM and activorarilingly

Budget Allocation for the Expenses Borne by the Government of Ligenda

	hem	Exposis	it.bit: million UQ3 Benarits
111	Salery and showsmast of PDAs and rester officers for periodipation is software applicance	420	Term 1: water officer 4 persons and CDA 19 present, 19 results 2 water officer 8 persons and CDA 27 present, 20 results
01		1	\$2 mg
17)	Land supportion of well facilitate (including land for construction)	+	Arrangement and conferention between villagars
141	Semaning of land and first fines for aquipenous and motorials		Land and building of DWD and District Water Office
(5)	Development of access roads to well construction sites		By luneficiaries' perticipation
tit.	Well drilling works and finishing well (mokaling, reportering facilities)	+	Offering labor of vellagers for accornection of phetican and installation of hand page
(7)	Contamation of protestate Stress and Ingl. pt.	-	Life rid ages' participation
_	Total	428	and the particular

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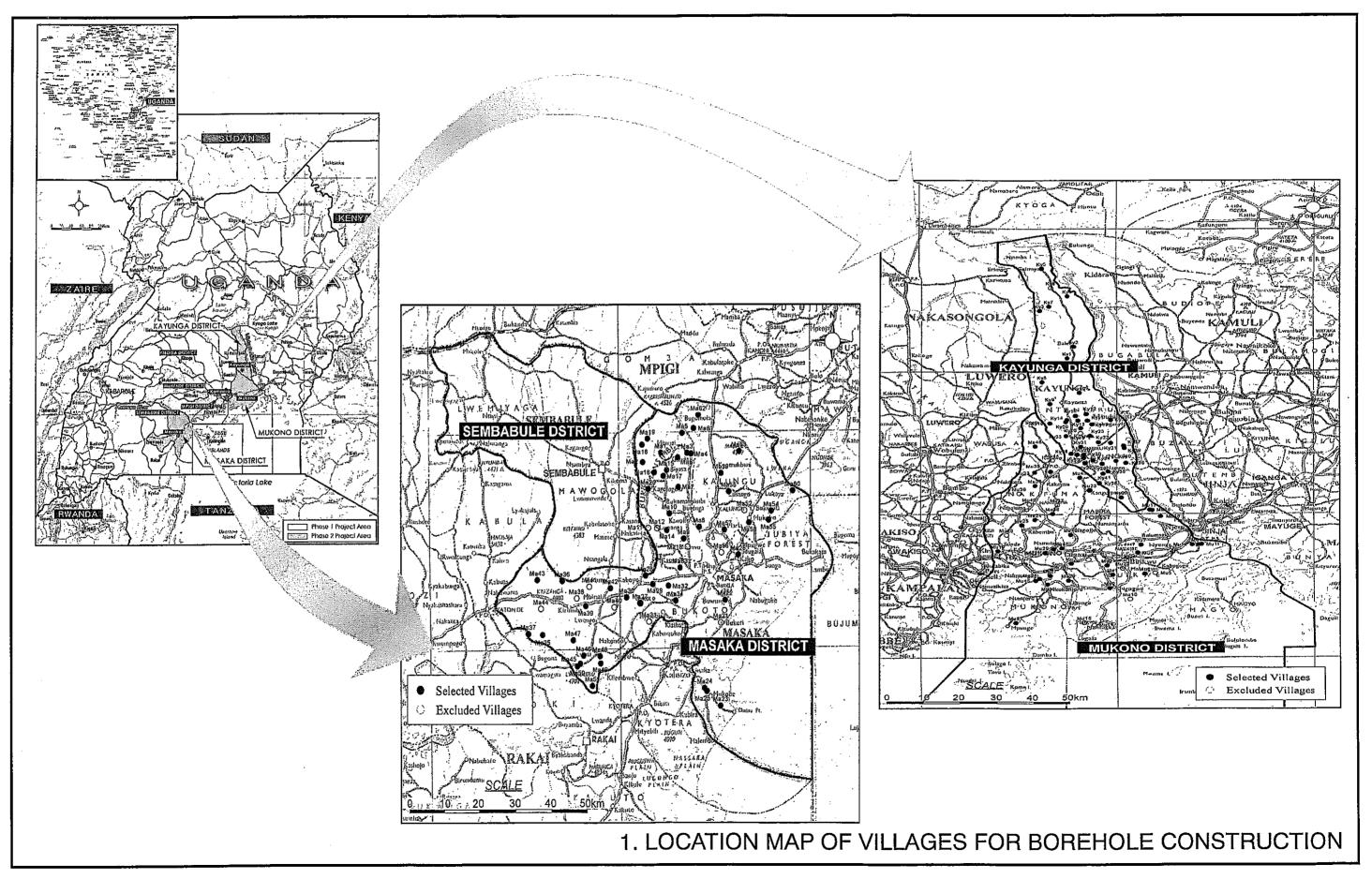
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Appendix-5 Basic Design Drawings

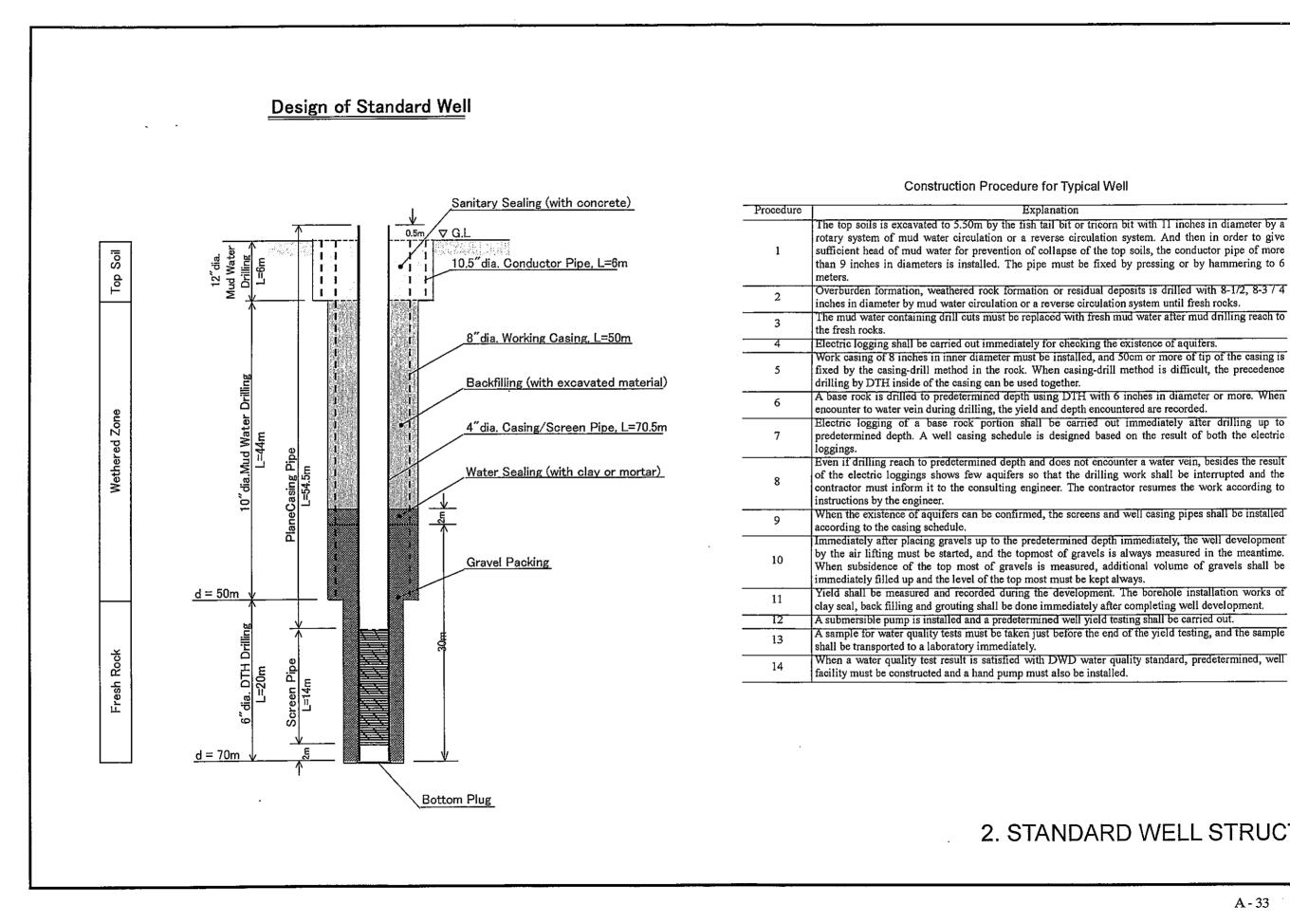
List of Drawings

Draw. No.	Title of Drawings	
1	Location Map of Villages for Borehole Construction	
2	Standard Well Structure	
3	Installation of Hand Pump and Relating Structure	

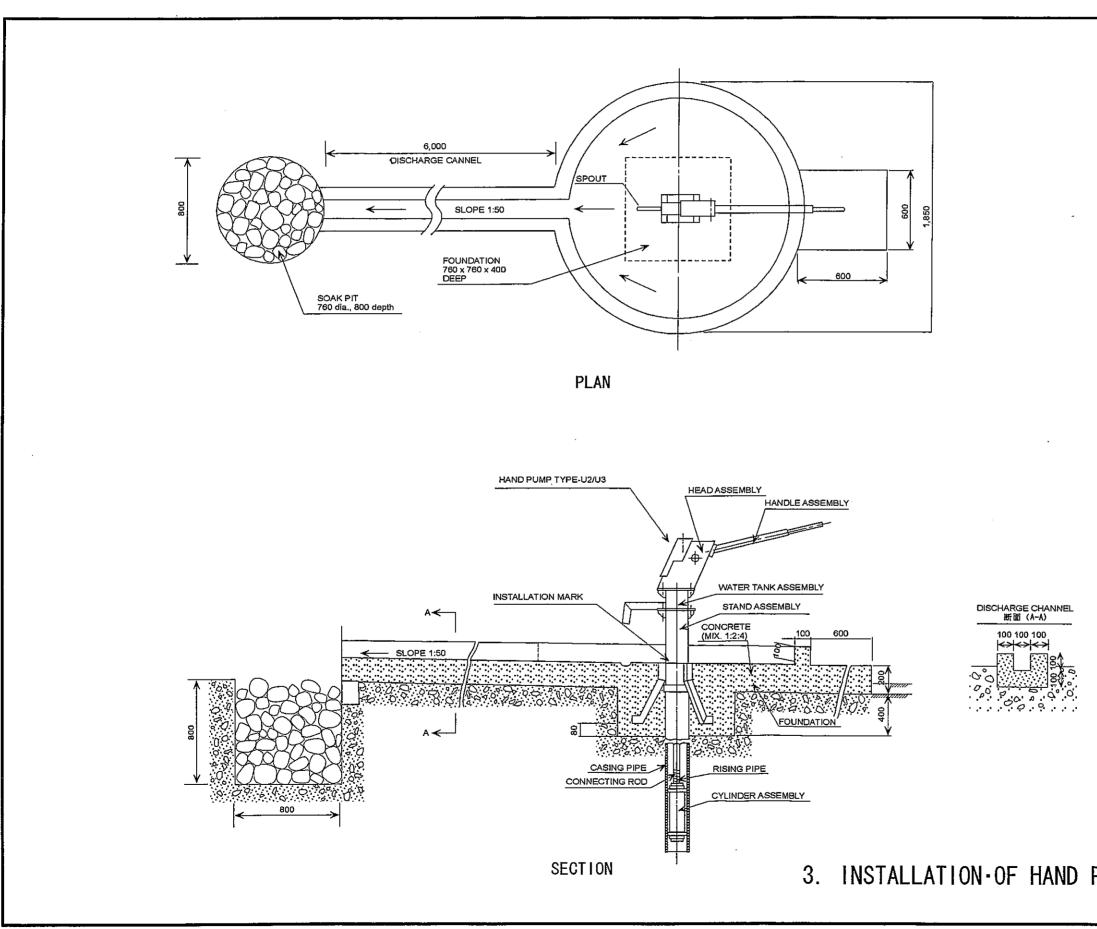


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2. STANDARD WELL STRUCTURE



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3. INSTALLATION OF HAND PUMP AND RELATING STRUCTURE

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