付属資料 2 既存水源水質分析結果一覧表 (その1)

(出典:ルワンダ共和国東部及び中央地域地下水開発計画/ウムタラ県地方給水計画予備調査報告書)

	操水田	大脈の種類	水源の種類周辺の地質		即	瀬つ世	実	HH	0	COD	全硬度塩化物	元 物 至	情酸塩亜別	亜硫酸塩 アン	アンモニア権	磁酸塩	全鉄マ	マンボング	ロッ禁 一般細胞	男 大陽雷群	編札
Secteur				ပ္ပ					# s/cm	шаа	DDC	mdd	шаа	шаа	mdd	шда	ELLIC	д шаа	ррш		
Rusenge	04.07.03	04.07.03 S(崖堆) Rr	Rr	23.0	透明無	無し無い	有り	5.53	181	7	45	75	5 0.0	0.02>	0.5	20>	0.2>	0.5>	0.1 \$1.0	178	表置25/sec
-	Ruzinga 1 04.07.03 BH		Rr	22.7	透明無	無し無し	#	5.54	218	n	50	20	5.0.0	<20.0	0.5	50>	0.2>	0.5>	0.2 無し	1	
(庫	上水(水源) 04.07.09 暗渠		Nm	20.1	透明 若干無	田無	無	5.55	130	-	45	25	5 0.0	< 20.0	0.2>	50>	0.2>	0.5>	0 客手	#	別法記載
上水	処理後上水 04.07.09 暗渠	暗渠		21.0	透明無	無し無り	無	5.99	159	7	65	125	5 0.0	< 70.0	0.5>	50>	0.2>	0.5>	0 無し	無	
Ringese	04.07.10 BH	ВН	B	21.5	透明無	無し無い	無し	5.52	358	2	95	150	2 0.0	< 20.0	0.2>	50>	0.2>	0.5>	0.1 無し	III.	
da	Nyamada 04.07.10 DW	DW		*27.0 茶濁	想顾米	まだ	有り	6.34	459	8	300	150	20	¥	0.8	50>	0.2>	0.5>	0 非常江多山	多い非常に多い	17:
Ndamira	04.07.10 P.S		Nm	20.9	透明無し	EL #EL	無し	5.37	192	1	80	175	5 0.0	0.02>	0.2>	50>	0.2>	0.5>	0.1 非常に	非常に多い若干	流量0.721/sea
епде	Kukarenge 04,07.10 S(S(崖堆)	1,335	*20.5	透明	無し無し	無し	4.56	204	9	105	75	5 0.0	<0.05	0.5	50>	0.2>	0.5>	0 非常仁多1	多し非常に多し	11
Cyanubare Mbarara	04.07.11 P.S	P.S	Но	21.9	透明無し	に無し	無し	5.77	266	24	125	150	5 0.0	0.02>	0.2>	50>	0.2>	0.5>	0非常江	こ多し非常に	多1. 流量0.011/800
-	04.07.11 BH	ВН	Nm (Ho)	22.8	透明無	無し無し	無し	5.60	343	3	125	175	1 0.0	< 20.0	0.5	>09	0.2>	0.5>	0 非常に	二多、若干	
Gitwa	04.07.11 P.S	P.S		*23.4	透明	無し無い	無し	5.24	280	2	150	150	10 0.0	< 20.0	0.5>	50>	0.2>	0.5>	0 年	1	表置0.221/sec
ama	12 RwamagarlKigarama 04.07.12 河川	河川		17.4	茶濁 若干不味し有り 6.23	干不明	し有り	6.23	331	2	155	175	3 0.0	< 20.0	0.2>	50>	0.2>	0.5>	0 非常に多し	多い非常に多い	
Gisanga	04.07.12 P.S	P.S	Gb, Ng境界	22.5	透明無	無し無し	無し	5.26	262	1	50	125	10 0.0	0.02>	0.2>	50>	0.2>	0.5>	0無し	無し	荒重2.01/895
Karambi	04.07.12 P.S	P.S	æ	22.7	透明無	無し無し	#IL	5.48	341	1	105	200	10 0.02>		0.2>	50>	0.2>	0.5>	0年(無	売量0.0011/eeu
opuq	Shabarondo 04.07.12 P.S		8	22.5	透明無	無し無し		5.41	179	F	75	75	10 0.02>	_	0.2>	50>	0.2>	0.5>	0.1 無し	無し	流量0.131/sec
0Za	Bukokoza 04.07.13 P.S		Gb. Ng噪音	22.2	透明無	無し無い	無し	5.20	128	Ţ	35	20	10 0.02>	_	0.2>	50>	0.2>	0.5>	0 無し	\$U	流量3,4//88c
nna	Nandama 04.07.13 湖水			25.1	茶濁 有り 不味し有り 8.30	リ不味	北有り	8.30	394	8<	100	25	1>00	0.02>	0.2>	50>	0.3	0.5>	0 非常仁多し	多し非常に多い	573
ата	Rugarama 04.07.13 湖水	湖水		24.5	茶圖有	有り不味し	こ有り	8.24	354	8<	110	25	1>0.0	0.02>	0.2>	50>	0.2	0.5>	0 非第江	に多い非常に多	多い
Karaba	04.07.13	04.07.13 PSいイブ)	. Fig.	23.2	透明無	無し無い	無し	5.59	151	2	30	75	12 0.0	< 20.0	0.2>	50>	0.2>	0.5>	0 非常に	こ多い無し	
Gituku	04.07.14 P.S		Œ.	20.8	透明無	無し無し	無し	5.17	43.1	Ξ	10	25	2 0.0	0.02>	0.2>	50>	0.2>	0.5>	0 111	幸	
Gituku	04.07.14 河川	河川		24.5	白濁 若干無し	工業し		有り 6.62	8.99	8	25	25>	1> 0.0	< 20.0	0.2>	20>	0.2	0.5>	0.1 非常に	非常に多い非常に多い	元 流量1.01/sec
Mushikili	04.07.14 河川	河川		25.2	想厕米	7 - 7	不味し有り 6.92	6.92	116	8	40	25>	1>0.0	0.02>	0.2	50>	-	0.5>	0 非常に	に多い非常に多い	175
azoi	nyagazoi 04.07.14 河川	河川		23.0	茶圖布	有り不味	不味し有り	08.9	206	8	9	25>	1> 0.0	0.02>	0.2>	20≎	0.3	0.5>	0.1 非常に	非常に多し非常に多い	17:
ij	24 Nyarubuye Murundi 04.07.15 DW	DW		17.8	茶濁有り不味し有り	リ不味	し有り	6.80	293	2	10	25>	1>0.0	< 20.0	0.5	50>	0.7	2	の帯部に	非常に多し非常に多い	સં
tare	Nvabitare 04.07.15 池(DW)	(MO)架		28.1	無厕米		不味し有り 6.85	6.85	282	8	90	25>	7	0.03	0.2	20	-	0.7	11年第一0	非常に多し非常に多し	573
ngo	Rutabango 04.07.15 P.S		Rr	21.7	透明無	無し無り	無	5.61	220	£	22	125	7 0.0	< 20.0	0.2>	50>	0.2>	0.5>	0無し	THE COLUMN	测量1.5/sec
anga	Nyamiyanga 04.07.15 P.S		Rr?	*23.0	透明無し	に無し	無	5.57	159	9	35	25	4 0.0	0.02>	0.2>	50>	0.2>	0.5>	二条集 0	二多、若干	
Chunji	04.07.15 BH	ВН	Rr (Ho)	21.4	透明無	無し無し	無	6.57	393	0	205	150	1 0.0	< 20.0	0.2>	20>	0.2>	0.5>	0 若干	1	
kora	29 Charubare Nyankora 04.07.16 BH	ВН	Rr	24.8	透明無	無し無い	無し	6.46	274	9	82	125		0.07	0.2	50>	0.2	0.5>	180	#	
神、シージン 井つごか				ĺ			Ĺ						甘瀬市		Ì	1 100	1	2		19	

BH: 梁井戸。PS 保護 湧水。S: 湧水、DW: 手掘り井戸 注: * は家庭のタンタより探。

既存水源水質分析結果一覧表 (その2)

(出典:ルワンダ国キブンゴ県地方開発プログラム策定支援プロジェクト形成調査最終報告書)

1		禁水場所	5	原理	便器	掛棒	C. 460 cm en 460	and the Control	19 *	pH.	45	種類伝漢庫	77.8LT	斯維斯	亜硝酸塩	***	37小器	小器庫	塩化糖	大陽斯群	
ir Ar	District	Sector	Cell	epiune j	Longitude	Alnrade(m)	District Mark	書目と記憶	P	(-)		BC(pix/cm)	$NH_{\rm s}(mg/l)$	NO ₃ (mg/l) NO ₃ (mg/l)	NO.(mg/l)	(lgn)	(mg1)	(mg1)	(mg/l)	Coliforn	k.
, cali	1 RWAMAGANA	*					李樹		21.8	7.54	業無・産業	47.4	<20	Δ	<20.0	<2.0	0	10	32		冊水
1000	2 KIBUNGO	Sakara	Knkarambi				享養業直		22.0	# 55	≆每·母堂	222	€2.0	10	<70.0	470	0	90	35		
1000	3 KIBUNGO	Sakara	Magnabe				学學藝術		12.4	5.07	5.67 無色・無臭	176	0.2>	10	<20.0	-570	0	22	100		
940	4 RWAMAGANA	A.					- 東東宇		27.1	7.87	7.87 無色、無典	595	0.2>	4	<.000	<2.0	9	325	150	100	米選米
1000	S RWAMAGANA Mwnlire	AMwulire	Gisanga		17		**		13.2	532 無	無色·無臭	290	47.0	20	-20.0	<70	0	59	100		
19.581	6 RWAMAGANA	A Sortu	Kabuya		1		*蒙	4	23.0	3.67 ₪	集色·無數	293	<70	20	0.02	470	0	80	100		
75.76	TRWAMAGANA	Rutonde	Gitega				¥#	N .	22.9	80.9	資養·导業	354	<20	30	<20.0	<0.0	0	110	150		
1279	8 CYARUBARE	Kadındınba Cyabaywa	Cyabaywa	,#59.15°IS	E30°35.373'	1,370	(,43,9354),11	中播洗老	27.1	528	各び 奥白浦	273	<2.0	:A	<20.0	<2.0	0				
46	9 CYARUBARE	Bisenga	Nyakamszi	\$2,05.354	E30°35.172	1,400	保護過水	谷東與而表層。	34.3	5.61	無色·無臭	307	<70	10	<20.0	0.2>	0	98	75	1000	
-	10 CYARUBARE	Bisenga	Ngms	\$52.69.23	E30*35.796	1,450	保護進木	韓四かな劉章康	16.4	572	無色・年泉	242	0.2>	:01	<20.0	<20	0.4	30	08	非常に多い	
-	11 CYAKUBAKE	Shyanda	Kassave	\$47.95.TS	187.FE-06:H	1.380	源大	小年祝曆	28.3	5.00	多か日衛	CSE	67.30	:79	<20.0	<2.0	9	120	100	くり焼け場点	新木銀币
	12 CYARUBARE	Minkoyoyo		51*54.5247	E30°40.762′	1,330	##(**\f\f\)	発展が抱き	22.1	里 2.9	無色・無臭	232	<20	Ħ	<20.0	0.2>	0	80	75	17級	
	13 KABARONDO	Namen o	Mundashya	27.2.167	E30*25.552"	1,350	(LC(\$100)##	福山松瀬史	21.6	524	親口セポ	380	<2.0	60	<20.0	G0	0	82	75	1.1%	
, min	14 KABARONDO	Sytuatoru	Випово	52*00.853	E30°32.733"	1,420	保護漢水	超藻膨土	23.3	5.37 搬	無白·無無	213	0.2>	10	<20.0	<70	0	09	05	神麗に多い	
p. p. et	15 KABARONDO	Kabarondo		\$1*59.524	E30°34154	1,440	(元米5个)##	胆薬維三	21.9	3.6	新色·無臭	260	0.25	10	0.24	629	0	105	27		
-	16 NERENGE	Mabuga	Akabira	\$2°12.747	E30°13.630'	1,330	海水	仲積表層土中	26.6	5.5 ≘	総日	131	<20	C1	<70.0	0.25	0	92	75	作業に多い	
1	17 MERENGE	专種		,488 TL-25	E30°12.846	1,360	冷觀觀測		24.4	5.8	無色·無息	126	0.2>	5:	<20.0	<2.0	0	55	75	1,727.0	董 力武
-	18 MIRENGE	Ngoma	Bitkokoza	,682-11-25	E30*25.201'	1,350	保護維木	中獲地馆原	22.3	53	新色·雅典	120	0.2>	20	<20.0	0.25	6	20	20	\$1.1	おって治水 故障中
1	19 MUHAZI	Kabare				1,470	類ないが		26.4	8.0 3	() 麗小家	553	<20	Z)	1.0	0.2>	:01	80	<\$2	0	
4	20 MUHAZI	Musha	Robultura	\$1°55.706"	E30°21 392'	1,470	保護進本	斯斯科斯	27.3	5.5#	新色·维泉	417	0.25	21	<20.0	-20	0	165	521	1,524	ボンな木
· **	21 MUHAZI	Mukarange	Cyeru				世 華		22.3	19:5	無色・無臭	253	<₹0	9	<20.0	<₹0	0	06	52		ポンプ給水 故障中
- 2	22 MUHAZI	Murambi	Karambi				保護衛水		22.0	2.48 車	報色・無臭	362	<20	>\$+	<20.0	0.2>	0	105	100		
PA:	23 NYARUBUYE	The same		,ESS 60°ES	E30°48.891'	1.500	半製	医链地谱师	26.7	6.8	無色·省集	164									
24	24 NYARUBUYE	no.		\$2*12.883	E30°45 246	1,460	米昭承	Myabitare ///	29.2	6.94 織り	(6)	260						10-30			
ru.	25 RUMERA	Parama	Getti	.701 11.25	E30°30,777	1,460	净 单	Разпузкадет //	24.0	6.84	新色·無臭	165	0.2	3	<20.0	470	0	09	80		
4.4	26 RUKEA	Grruku		\$207.3117	E30°39,077"	1,680	保護療术	山麓斜南	27.0	5.2	每色·無臭	260	0.2>	Δ	0.02	0.2>	0	55	35	多少有币	重力式
179	27 RUKURA	Rurenge	Ruzings II	\$2,15.249"	E30°32.987	1,380	海 木	新羅史·医汝	23.2	8.5	無色·善息	190	0.2>	99	<20.0	<2.0	0	2.0	20		
-61	28 RUKUPA	Rurenge	Rumings 1				# 声(シンドネン)	接症	33.7	5.5	新色·無臭	195	0.2>	m	0.02>	0.2	0	90	75	1.5桶	
2	29 RUSUMO	Kirebe	Nyabikokova	61E'L1=2S	£30°39.480″	1,410	素潤素	Sagstare III	24.1	5.67	5.67 無色・無鳥	164	<2>0	4	0.02	5.0	0	5_7			
m	30 RUSUMO	Kirehe	Rutsbegu	,ES8'51.ZS	E30°38 101'	1.500	***	容易妻・夫妻士	25.5	5.61 #	無色・華泉	240	470	Α	<20.0	470	0	_			
-	OWNSDW 15	Catore	Cymrat	3/22/12/5	10655-053	UHF T	しんまるへいせぜ	山原写斯(発養)	23.5	3.7 m	無白·無臭	413	-7.0	cd	<20.0	<2.0	0	80			
10	32 RUSUMO	Kigma	Mayin				保護衛水	2.5	22.2	9	無色·無臭	216	6.2>	99	<20.0	.0.2>	0	110	100		
m	33 RUSUMO	Catore	Cymma				(北京社会/)五年		22.4	第259	素色・素臭	365	0.2>	20	<20.0	6.2>	0	210	150		
					WHO # (ドライ)	A.			~	6.5~8.5				90	ĸ	6.0	5	500	250		

既存水源水質分析結果一覧表(その3)

(出典:ルワンダ共和国地方給水計画基本設計調査報告書)

			Season Services					£ 0	u		Wat	er quali	ty		.0 .03		
District	Sector	Water Source	Altitude (m)	UTM-K	LITM-y	Yield (Vs)	PHI	Conductivity (pS/cm)	Turbidity (NTU)	Fei (ppm)	Mn (ppm)	As (ppb)	NO2 (ppm)	NO3	(ppm)	NH4 (ppm)	Detection of colony
Kihiangiz	Ndamira Sakata Kibaya	Nyamuganda	1,476	562669	8761110	8.0	5.0	276.0	0.0	<0.2	<0.05	14.5	<0.02	5	0.2	<0.2	NO
117928	Rubonii	Gasebaya	1,480	564489	9766160	1.1	8.5	281.0	0.0	<0.2	<0.05	<4	<0.02	2	0.0	40.2	YES
	RUDORIE	Nyakagezi-	1,827	564079	9767088	0,9	4.9	223.0	0.0	<0.2	<0.05	-64	<0.02	- 5	0.2	<0.2	NG
	Mwure	Rwakibogo	1,380	547027	9781404	13+30	5.3	202.0	0.0	<0.2	<0.05	1.60	<0.02	2	0.2	0.2	NO:
Rwagemone	Sovu	Вододи	1,382	547305	9781709	0.3	5.6	198.0	0.0	<0.2	<0.05	-04	<0.02	10	9.2	<0.2	NO:
	Rutonde	Nyakabande	1,390	550471	9783021	0.7	5.7	330.0	0.0	+0.2	<0.05	<4	<0.02	- 10	0.2	<0.2	(£6
	Geshanda	Nyankora	1,377	574640	9788343	2.0	62	271.0	0.0	< 0.2	<0.05	-64	<0.02		11.8	<0.2	
Cyanubare	Shyanda Murawa Dist Office	Kationobono	1,411	566352	9772906	23	8,1	227.0	0.0	<0.2	<0.05	94	<0.02	:2	0.2	<0.2	YES
	Bisenga	Gicaca	1.419	565214	9769016	2.3	5.5	298.0	0.0	<0.2	< 0.05	44	<0.02	- 5	0.2	<0.2	NO:
	Ruyunza Ruramira Nkamba Rukira	Gitoki	1,580	557567	9790099	1.1 + 0.6	5,7	266.0	0.0	<0.2	<0.05	100	<0.02	5	0.2	0(2)	YES
Katserendo	Kaduha Rwetu	Ryanyiramataza Buseruka, & Gatare	1,368	549,308	9778242	:12	5.8	321.0	0.0	<0.2	<0.0E	et	<0.02	- 2	0.2	<0.2	YES
	Mushumba	Canada C			-								- 10				
	Kibimba	0	-	70000			-	7.00		0-1	Tron air	000	100		-	500	
	Matongo Bare	Kagome	1,447	555133	9753113	3.8	5.2	122.0	0.0	<0.2	<0.05	199	<0.02	5	0.4	<0.2	YES
Kigarama	Fukwe Gashanda Kamsana	Kantonyogo	Ē,	12	5	11	(2)	2	-	22	F	2	31	12	2	92	
	Gasetsa Rurenge Remera	Gacaca	1,400	559608	9771923	1.4	5.6	258.0	0.0	<0.2	<0.05	155	<0.02	5	0.2	<0.2	YES
	Mbuye Murwa	Mirama	1,328	544683	9745969	0.7	6.5	68.0	0.0	<0.2	<0.05	144	<0.02	.2	0.2	<0.2	YES
	Ruyema	Bukokozia	1,582	546735	9757120	3.5	5.1	125.0	0.0	<0.2	<0.05	R6	<0.02	:5	0.2	<0.2	YES
Mirenge	Karembo Zaza Kukabye Kibare Gatere	Fluworutene	1,380	550564	9764003	2.1	4.5	104.0	0.0	≺0.2	-0.05	ė.	<9.02	2	8.2	≺0.2	YES
	Kabilizi Shywa Nyange Kagashi	Katsadeko	1,387	549273	9761040	32	5.2	89.3	0.0	<0.2	<0.00E	**	<0.02	19	0.4	<0.2	YES
Muhazi	Murambe	Karambi	1,435	.651596	9792583	0.14	5.5	108.0	0.0	<0.2	<0.06	-44	<0.02	10	0.2	<0.2	YES
Nyanubuye	Nyarabaye Nyabitare	Kamacumbi	1,588	581835	9761116	2.6	5.4	82.7	0.0	<0.2	<0.05	K.E	≈ 0.02	2	0.4	<0.2	YES
Rukita	Marhition	Nyakagongi	1,587	581091	9700796	3.3	62	279.0	0.0	<0.2	<0.05	116	<0.02	2	0.4	40.2	YES
	Murama	Rwanyakagez	1,360	504499	9757219	0.8	5.4	173.0	0.0	<0.2	40.05	44	*0.02	- 5	D.4	40.2	YES
		Gahama	1,493	570617	9749654	0.8	5.7	233.0	0.0	40.2	<0.05	154	<0.52	2	0.4	8.2	NO.
	Kihore	Muguruka	1,553	577961	9747536	1.1	8.1	190.0	0.0	<0.2	<0.05	44	<0.02	5	0.2	<0.2	NO
	Nyamugali	Nyakagezi-Mayori	1,492	582819	8750390	3.4	5.8	137.0	0.0	<0.2	< 0.06	- 44	<0.02	<1	0,4	<0.2	NO:
Rusumo	Amenday	Cyanyizanyonza	1,503	581729	9749341	0.5	5.5	29.1	0.0	<0.2	<0.05	-44	<0.02	-ct	0.4	<0.2	YES
, same 1/G	Kigina	Katango	1,567	581215	9750785	1.3	5.8	71.5	0.0	<0.2	40.05	44	<0.02	2	0.2	<0.2	YES
	The State of	Gasebura	1,513	579433	9747292	1.8	5.7	58.0	0.0	<0.2	<0.05	-04	<0.02	- 2	0.2	<0.2	YES
	Cashonogor	Rubona	1,352	559261	9744183	3	5.4	204.0	0.0	<0.2	<0.05	44	<0.02	- 5	0.2	<0.2	NO.
	Ganara	Gaharam	1,340	557667	9742096 9740628	1.2	5.6	245.0	0.0	<0.2	<0.05	<4 <4	<0.02 <0.02	<1	0.2	<0.2	NO- YES
	Gatore	Samuko	1.348	563168													

既存井戸

Farmer-con-	1	W	Pumping	Station Co	noitemation			II Service III o Proces			Wat	er qual	ty				
District	Sector	Cell	Altitude (m)	.HTM-x	UTM-y	Yield (Vs)	PH	Conductivity (uS/cm)	Turbidity (NTU)	Fe Ippmi	Min (pptn)	As (ppb)	NO2 (ppm)	NO3 (ppm)	(spm)	NH4 (ppm)	Detection of colony
	1	Gihinge:	1,400	565147	9788609		8.2	215.0	0.0	<0.7	<0.05	104	<0.02	- 5	0.2	<0.2	YES
	Park to the	Cyabajwa	1,373	584685	9782824		0.0	238.0		-2	-			-	100		NO
Özer kenen	Cyabajwa	Mbanera,	1,390	564469	9781582		1.7	373.0	-4-1			-	1 4 1		4.5		YES
Cyarubare		Mbattera	1,400	504292	9780699		5.8	301.0	-		-				-		NC:
		Mukoyoyo (Nyankora)	1.377	574640	9786343	2.0	6.2	271.0	0.0	<0.2	<0.05	-c¢	<0.02	7/4	0.8	<0.2	
Kaparondo	Nkungu	Mataba*	1,333	548548	9771789		5.5	123.5	Ŧ	- 7		- X	. 54	= 1	-		1.3.
24 522 R(3)	Kabamndo	Rugeri i	1,334	564049	9778699		5.5	42.5	0.0	<0.2	<0.05	-66	< 0.02	- 15	112	<0.2	YES.
Muhazi	Mukarange	Cyenz (Kezabezana)	1,479	557909	9788996	33	5.5	480.0	11.8	>10	12	<4	<0.02	1	0.6	- SEC	12
Rukina	Rurenge	Rusinge I	1,368	501410	8751699		5.0	196.0	0.0	<0.2	<0.05	<4	< 0.02	- 14	0.2	<0.2	NO
	WHO	guidelines for drin	king water q	usity (200	47			=	+	1	0.4	10	0.2	50	1.5	15	No colony / 100 ml

付属資料 3 東部県7郡における CDF プロジェクト・リスト(2002-2007年)(※グリーン部分のセルは給水プロジェクト)

PROVINCE	IARY	BENEFICI ARY DISTRICT	NAME OF PROJECT	Budget year	Amount Granted by	Contractual Amountt/Monta	1st transfer Amount	2nd transfer Amount	3rd transfer Amount	4th Transfer Amount	5th Transfer	TOTAL	Balance to be disbursed
	DISTRIC	DISTRICT	EASTERN PROVINCE		CDF(FRW)	nt du Marche	(FRW)	(FRW)	(FRW)	(FRW)			
EASTERN	BUGESER	BUGESERA	Travaux d'amenagement des fosses anti-erosifs et de plantation des agro-forestiers et herbes fixatrices sur une superficies de 300Ha dans les secteurs Rweru,Mayange et Kamabuye		76,859,880	76,859,880	15,371,976	30,743,952	30,743,952			76,859,880	0
EASTERN	Nyamata	BUGESERA	Exploitation rationnelle d'un marais de 12 ha à Karugenge-Kanzenze		9,720,000	9,720,000	2,916,000	2,916,000	3,888,000	0	0	9,720,000	0
EASTERN	Nyamata	BUGESERA	Projet de plantation des arbres bord des pistes des secteurs Mwogo,Murama,Muyenzi,Kanazi,Musenyi,Gicaca,Ru lindo Mayange, Nyagihunika,Maranyundo,Kayumba,Kanzenze,Ntara ma et Kibungo (PDL-HIMO)	ı	117,744,444	117,744,444	58,872,222	58,872,222				117,744,444	0
EASTERN	Nyamata	BUGESERA	Projet de telecommunication en milieu rural dans le secteur Mwogo		7,118,869	7,118,869	7,118,869	0	0	0	0	7,118,869	0
EASTERN	Ngenda	BUGESERA	Projet d'extension du marché de Ruhuha		27,279,612	24,668,460	4,091,942	4,091,942	8,183,884	8,300,692		24,668,460	0
EASTERN	Nyamata	BUGESERA	Réhabilitation de l'abattoir de Nyamata		1,346,850	1,410,000	404,055	942,795				1,346,850	63,150
EASTERN	Gashora	BUGESERA	Réhabilitation et extension de la guest house de GASHORA		46,467,683	54,879,759	9,293,537	18,587,074				27,880,611	26,999,148
EASTERN	Gashora	BUGESERA	Telécommunication en milieu rural à Kabuka dans le secteur Rweru		8,180,869	8,180,869	8,180,869	0	0	0	0	8,180,869	0
EASTERN	Gashora	BUGESERA		2005	198,464,297	295,144,086	177,086,452					177,086,452	118,057,634
EASTERN		BUGESERA	GASHORA Projet de silo de stockage et TUVUGANE dans le cadre d'UBUDEHE	2006	3,756,000	3,756,000	3,756,000					3,756,000	0
EASTERN		BUGESERA	Projet de collect et pasteurisation de lait	2006	7,244,000	7,244,000	7,244,000					7,244,000	0
EASTERN		BUGESERA	(UBUDEHE) Travaux de reboisement dans le secteur de NGERUKA et NYARUGENGE	2006	34,274,000	34,274,000	13,709,600	6,854,800				20,564,400	13,709,600
EASTERN		BUGESERA	Travaux de reboisement dans le secteur de JURU	2006	35,788,000	35,788,000	14,315,200	7,157,600				21,472,800	14,315,200
EASTERN		BUGESERA	Construction du bureau du secteur RWERU	2006	23,688,900	26,321,000	4,737,780	9,475,560	4,737,780			18,951,120	7,369,880
EASTERN		BUGESERA	dans les secteurs RILIMA, NGERUKA et	2006	77,974,678	77,974,678	46,784,807	15,594,935				62,379,742	15,594,936
EASTERN		BUGESERA	NYAMATA Construction du bureau du secteur NGERUKA	2006	23,376,600	25,974,000	4,675,320	9,350,640	4,675,320			18,701,280	7,272,720
EASTERN		BUGESERA	Construction du bureau de secteur KAMABUYE	2006	23,866,740		4,773,348	9,546,696	,,			14,320,044	12,198,556
EASTERN		BUGESERA	Construction du bureau de secteur MUSENYI	2006	23,376,600	25,974,000	4,675,320	9,350,640	4,675,320			18,701,280	7,272,720
EASTERN		BUGESERA	Purchasing of Grainpro cacoons 50mt capacity, 3m high complete with 1 unit (20 cancoons)	2006	60,000,000	60,000,000	60,000,000					60,000,000	0
EASTERN		BUGESERA	Construction du bureau de secteur MWOGO	2006	26,321,000	26,321,000	14,213,340	4,737,780				18,951,120	7,369,880
EASTERN		BUGESERA	Electrification par energie solaire des secteurs RILIMA, JURU, MAYANGE et NTARAMA	2006	27,994,000	27,994,000	16,796,400	5,598,800	5,598,800			27,994,000	0
EASTERN		BUGESERA	Electrification par energie solaire des secteurs SHYARA, NYARUGENGE, MAREBA et KAMABUYE	2006	27,994,000	27,994,000	16,796,400	5,598,800				22,395,200	5,598,800
					888,837,022	1,001,859,645	495,813,437	199,420,236	62,503,056	8,300,692	0	766,037,421	235,822,224
EASTERN	Ngarama	GATSIBO	Electrification du bureau de District de Ngarama par energie solaire		13,900,457	13,900,457	13,287,266					13,287,266	613,191
EASTERN	Humure	GATSIBO	Construction de l'abattoir à Mugera		6,420,645	7,693,170	963,097	963,097	1,926,194	2,568,257		6,420,645	1,272,525
EASTERN	Humure	GATSIBO	Construction des petits ponts Ruboroga et Rubonobono		8,907,525	10,462,741	1,187,670	3,563,010	4,156,845	0	0	8,907,525	1,555,216
EASTERN EASTERN	Ngarama Ngarama	GATSIBO GATSIBO	Construction du bureau de secteur Gatsibo Construction du bureau de secteur Gitinda		9,998,136 9,488,984	9,998,136 9,488,984	2,499,534 2,372,246	3,499,348				5,998,882 2,372,246	3,999,254 7,116,738
	_		(NYAGIHINGA)	****		.,,			44 000 000				1,,
EASTERN EASTERN	Ngarama Kahi	GATSIBO GATSIBO	Construction du marché de NGARAMA Construction of Kabarore-Gatoki road (6.4 km)	2004	48,505,937 45,866,600	47,874,937 40,651,000	14,362,481 4,720,005	14,362,481 4,319,940	12,000,000 3,155,355	7,149,972 24,390,600	0	47,874,934 36,585,900	4,065,100
EASTERN	Murambi	GATSIBO	Construction of Rwagitima market	2003	28,701,923	31,891,025	4,115,475	4,115,475	11,480,769			19,711,719	12,179,306
EASTERN	Kahi	GATSIBO	Construction of Rwagitima-Nyakayaga road (5.2 km)	2005	35,738,879	39,709,865	7,941,973	14,295,551	7,147,775			29,385,299	10,324,566
EASTERN	Humure	GATSIBO	Istallation des equipments d'électrification du Bureau de District par energie solaire		20,301,424	20,301,424	16,926,424	3,375,000	0	0	0	20,301,424	0
EASTERN	Humure	GATSIBO	Projet de telecommunication au Bureau de District		7,118,869		7,118,869	0	0	0	0	7,118,869	0
EASTERN	Murambi	GATSIBO	Travaux d'extension d'un marché couvert de Kiramuruzi-Murambi		37,210,436		7,442,087	26,047,305	3,721,044			37,210,436	0
EASTERN	Rwamiko	GATSIBO	Travaux supplementaires au marché couvert de Gasange(Rwamiko)		15,165,875		9,177,111	5,988,764	0	0	0	15,165,875	1,828,775
EASTERN	Rwamiko	GATSIBO	Réhabilitation (26 km) et extension (8 km) du reseau d'eau dans les 4 secteurs (Kabira, Gatare, Kome et Kigabiro)		33,640,245	30,398,300	5,046,037	10,092,074	10,092,074			25,230,185	5,168,115
EASTERN	Rwamiko	GATSIBO	Construction du marché de GASANGE		34,193,729	37,848,081	6,838,746	13,677,492	13,547,035			34,063,273	3,784,808
EASTERN	Ngarama	GATSIBO	Construction et aménagement du site touristiques (Rocher) de Ngarama		32,011,180		6,402,236	12,804,472				19,206,708	12,804,472
EASTERN		GATSIBO	Construction du bureau du secteur de KAGEYO	2006	24,041,250	26,712,500	4,808,250	9,616,500	6,143,875			20,568,625	6,143,875
EASTERN		GATSIBO	Construction du bureau du secteur de REMERA	2006	24,746,100		4,949,298	9,898,596				14,847,894	12,648,206
EASTERN	<u></u>	GATSIBO	Construction des ponts MBURAMAZI et NYAKAYIRA	2006	28,693,232	31,881,369	5,738,646	11,477,293				17,215,939	14,665,430
EASTERN		GATSIBO	Construction d'une salle polyvalente du District	2006	70,195,743		14,039,149	28,078,297	15,599,054			57,716,500	20,278,770
EASTERN		GATSIBO	Aménagement, stabilisation et viabilisation des terrasses radicales dans le secteur de NGARAMA (25ha)	2006	24,620,200	24,620,200	9,848,080	9,848,080				19,696,160	4,924,040
EASTERN		GATSIBO	Aménagement, stabilisation et viabilisation des terrasses radicales dans le secteur de MURAMBI (50ha)	2006	48,839,000	48,839,000	19,535,600	19,535,600	9,767,800			48,839,000	0

PROVINCE	BENEFIC IARY DISTRIC	BENEFICI ARY DISTRICT	NAME OF PROJECT	Budget year	Amount Granted by CDF(FRW)	Contractual Amountt/Monta nt du Marche	1st transfer Amount (FRW)	2nd transfer Amount (FRW)	3rd transfer Amount (FRW)	4th Transfer Amount (FRW)	5th Transfer	TOTAL	Balance to be disbursed
EASTERN	DISTRIC	GATSIBO	Aménagement, stabilisation et viabilisation des terrasses radicales (Lot III) dans le secteur de	2006	24,111,725	24,111,725	9,644,690	(FKW)	(FKW)	(FKW)		9,644,690	14,467,035
EASTERN		GATSIBO	KIZIGURO (25ha) Construction du Centre de santé de GASANGE	2006	126,987,589	141,097,321	25,397,512	25,397,518				50,795,030	90,302,291
EASTERN		GATSIBO	Silo de stockage "Cancoons"	2006	45,000,000	45,000,000	45,000,000	20,077,010				45,000,000	0,002,271
EASTERN		GATSIBO	Construction et réhabilitation de la route NJUME-	2006	124,424,915	138,249,906	24,884,983	49,769,966				74,654,949	63,594,957
			GASANGE					.,,					
EASTERN		GATSIBO	Surveillance des travaux de construction et ré habilitation de la route NJUME-GASANGE	2006	24,900,000 953,730,598	24,900,000 1,004,456,646	9,960,000 284,207,465	280,725,859	98,737,820	34,108,829		9,960,000	14,940,000 306,676,673
EASTERN	Kabarondo	KAYONZA	Construction du marche de Kabarondo-Phase 1		50,568,697	53,235,450	9,582,381	19,164,762	19,164,762	34,100,029	'	47,911,905	5,323,545
EASTERN	Rukara		Electrification par energie solaire de centres de sante		26,820,279	24,311,540	21,880,386	17,104,702	17,104,702	0		21,880,386	2,431,154
EASTERN	KAYONZA	KAYONZA	de Ryamanyoni et Nyakabungo Environmental protection in the sectors, Kabare and		76,924,200	76,924,200	15,384,840	30,769,680	30,769,680			76,924,200	2,101,101
EASTERN	Cyarubare	KAYONZA	Ndego (Former Cyarubare District) Extension of potable water to SHYANDA, BISENGA		51,703,391	51,703,391	15,511,017	15,511,017	18,657,966	0) (49,680,000	2,023,391
EASTERN	Cyarubare	KAYONZA	& MURAMA sectors Projet de telecommunication au Bureau de District		7,118,869	7,118,869	7,118,869	0	0	0		7,118,869	0
EASTERN	Rukara	KAYONZA	Réhabilitation de la route Karubamba-Kimodoka (7		31,405,500	22,960,000	4,132,800	8,265,600	8,265,600	0		20,664,000	2,296,000
EASTERN	Rukara	KAYONZA	km) Travaux de fourniture et d'installation des equippement d'electrification par energie solaire du bureau de District de Rukara	2005	9,900,000	8,651,447	1,730,289	6,921,158	.,.,			8,651,447	0
EASTERN	Muhazi	KAYONZA	Projet de construction du marché de Kayonza (Phase I)		39,410,808	39,410,808	5,911,621	5,911,621	18,319,748			30,142,990	9,267,818
EASTERN	Muhazi		Projet de construction du marché de Kayonza (Phase II)		33,756,651	38,937,903	6,751,330	13,502,660	13,502,661	0		33,756,651	5,181,252
EASTERN	Muhazi		Construction de l'école secondaire de RWINKWAVU	2005	30,058,843	33,398,714	6,011,769	13,359,486				19,371,255	14,027,459
EASTERN		KAYONZA	Aménagement des terrasses radicales dans le site de RUYONZA	2006	20,882,767	23,203,075	8,713,107	8,353,107	4,640,615			21,706,829	1,496,246
EASTERN		KAYONZA	Aménagement des terrasses radicales dans le site de KAYONZA	2006	23,442,552	23,442,552	8,353,107	4,219,660	4,688,510			17,261,277	6,181,275
EASTERN		KAYONZA	Aménagement des terrasses radicales dans le site de KANYEGANYEGE	2006	23,442,552	23,442,552	8,439,319	4,219,660	4,688,510			17,347,489	6,095,063
EASTERN		KAYONZA	Aménagement des terrasses radicales dans le site de SHYOGO	2006	24,203,075	24,203,075	8,439,319	4,356,554	4,840,615			17,636,488	6,566,587
EASTERN		KAYONZA	Finissage de de 7 anciens secteurs du District de KAYONZA (Participation locale)	2006	16,241,146	16,241,146	16,241,146					16,241,146	0
EASTERN		KAYONZA	Création de 14.2km de route en terre dans le District de KAYONZA	2006	257,000,000	257,000,000	51,400,000					51,400,000	205,600,000
EASTERN		KAYONZA	Surveillance des tracaux de création de 14.2km de route en terre dans le District de KAYONZA	2006	12,120,000	12,120,000	2,424,000					2,424,000	9,696,000
EASTERN		KAYONZA	Projet de silo de stockage "Cancoons"	2006	60,000,000	60,000,000	60,000,000					60,000,000	0
					794,999,330	796,304,722	258,025,300	134,554,965	127,538,667	0	•	520,118,932	276,185,790
EASTERN	Rukira	KIREHE	Construction de citernesd'eau de pluies de 20m3 chacune-secteur Mushikiri et deux autre pour captage d'eau de pluie-secteur Rurenge		6,810,997	7,352,520	1,323,454	2,646,907				3,970,361	3,382,159
EASTERN	Rusumo	KIREHE	Construction d'une adduction d'eau GATORE par pompage		49,964,060	88,853,600	9,992,812	19,985,624	19,985,624	0		49,964,060	38,889,540
EASTERN	Rusumo	KIREHE	Construction of Cyunuzi-Rwabutazi-Nganda road (18km)		45,625,464	46,478,938	12,485,681	14,889,597	18,250,186			45,625,464	853,474
EASTERN	Nyarubuye	KIREHE	Exècution de travaux de construction de trois (3) salles de classe et une citerne de 30M3 a l'ecole secondaire de Nyarubuye	2005	16,924,208	17,297,450	3,384,842					3,384,842	13,912,608
EASTERN	Rusumo	KIREHE	Projet de telecommunication rural dans le secteur Musaza		8,180,869	8,180,869	8,180,869	0	0	0) (8,180,869	0
EASTERN	Nyarubuye	KIREHE	Rehabilitation de la route NYARUTUNGA- RUGARAMA		54,803,271	60,571,750	10,960,654	21,921,308				32,881,962	27,689,788
EASTERN	Rukira	KIREHE	Supply of potable water to NTARUKA sector		1,904,120	1,904,120	571,236	830,514				1,401,750	502,370
EASTERN	Rukira	KIREHE	Supply of potable water to RUGARAMA sector		1,904,120	1,904,120	571,236	830,514				1,401,750	502,370
EASTERN	Rukira	KIREHE	Travaux de réhabilitation de la route Kyigufi- Mahama, Nyamugali (14km)	2006	155,149,000	155,149,000	31,029,800					31,029,800	
EASTERN	Nyarubuye	KIREHE	Eléctrification par enérgie solaire d'un batiment administratif du Ex-District de Nyarubuye		17,857,692	17,877,000	17,857,692					17,857,692	19,308
EASTERN		KIREHE	Surveillance et contrôle technique de réhabilitation de la route KIGUFI - MAHAMA - NYAMUGARI	2006	5,620,340	5,620,340	1,124,068	2,248,136	2,248,136			5,620,340	0
EASTERN		KIREHE	Aménagement, stabilisation et viabilisation des terrasses radicales dans le secteur de KIREHE - Site KIREHE	2007	38,400,000	38,400,000	15,360,000	7,680,000	7,680,000			30,720,000	7,680,000
EASTERN		KIREHE	Aménagement, stabilisation et viabilisation des terrasses radicales dans le secteur de NYAMUGARI - Site NYAMUGARI	2007	28,800,000	28,800,000	11,520,000	5,760,000	5,760,000			23,040,000	5,760,000
EASTERN		KIREHE	Aménagement, stabilisation et viabilisation des terrasses radicales dans le secteur de GATORE (30ha)	2007	29,985,180	29,985,180	11,994,072					11,994,072	17,991,108
EASTERN		KIREHE	Construction du bureau du secteur de NYAMUGALI	2005	35,030,460	35,030,460	6,305,483	12,610,965	16,114,011			35,030,459	1
EASTERN		KIREHE	Construction du bureau du secteur de KIGINA	2006	30,335,184	33,705,760	6,067,037	12,134,074	15,504,649			33,705,760	0
EASTERN		KIREHE	Construction du bureau du secteur de KIREHE	2007	28,403,163	31,559,070	5,680,633	11,361,265	14,517,172			31,559,070	0
EASTERN		KIREHE	Extension de l'adduction d'eau de GATORE	2005	25,947,094	28,830,105			10,378,838			10,378,838	18,451,26

PROVINCE	BENEFIC	BENEFICI	NAME OF PROJECT	Budget	Amount	Contractual	1st transfer	2nd transfer	3rd transfer	4th Transfer	5th	TOTAL	Balance to be
	IARY	ARY DISTRICT		year	Granted by CDF(FRW)	Amountt/Monta nt du Marche	Amount (FRW)	Amount (FRW)	Amount (FRW)	Amount (FRW)	Transfer		disbursed
EASTERN	DIOTRIC	KIREHE	Extension de l'adduction d'eau de MUSAZA	2005	23,873,512	26,526,125	(12(1)	(11(1))	9,549,405	(22(11)		9,549,405	16,976,720
EASTERN		KIREHE	Projet de silo de stockage "Cancoons"	2006	90,000,000	90,000,000	90,000,000					90,000,000	0
EASTERN		KIREHE	Electrification du bureau du District par energie solaire	2006	105,201,130	105,201,130	42,080,453					42,080,453	63,120,677
EASTERN		KIREHE	Extension de l'adduction d'eau de GASHONGORA	2006	1,498,075	1,498,075	1,498,075					1,498,075	0
			(Avenant sur le projet Financé par EU)										
		110011			802,217,939	860,725,612	287,988,097	112,898,904	119,988,021	0	-	520,875,022	339,850,590
EASTERN	Rukira	NGOMA	Eléctrification par energie solaire de trois batiments administratif de District de Rukira		22,397,333	22,390,880	20,151,792	2,239,088	0	0	0	22,390,880	0
EASTERN	Mirenge	NGOMA	Construction de marchè moderne de NGOMA		29,539,280	32,744,680	5,894,042	11,788,085	11,788,085	0	0	29,470,212	3,274,468
EASTERN	Kibungo Te	NGOMA	Construction du Bureau de Secteur-GAHURIRE		7,275,850	7,233,535	1,851,120	2,514,390	2,868,025			7,233,535	0
EASTERN	Kigarama	NGOMA	Construction du marche moderne de Gashanda	****	24,253,526	26,995,367	4,850,705	9,701,410	12,443,252	0	0	26,995,367	0
EASTERN EASTERN	Kigarama Kigarama	NGOMA NGOMA	Construction of a mordern market in KIGARAMA Construction of a mordern market in KIGARAMA	2005	24,253,526 4,490,755	26,995,367 4,490,755	7,427,228 2,245,378	7,427,228				14,854,456 2,245,378	12,140,911 2,245,377
LASTERI	Rigarama	NOOMA	(Travaux restants)	2003	4,470,755	4,470,733	2,243,376					2,243,376	2,243,377
EASTERN	Kibungo Te	NGOMA	Construction of a taxi park		31,046,235	30,683,676	9,313,870	9,313,870	8,987,568	2,998,983	0	,,	69,385
EASTERN	Mirenge	NGOMA	Expansion of Ngoma and Ruyema water lines		18,933,500	18,485,960	2,840,025	2,840,025	5,680,050	7,125,860		18,485,960	0
EASTERN	Mirenge	NGOMA	Fourniture et installation de deux Groupes Electro pompes à la sources d'eau Ngoma (Mirenge)		20,220,480	20,220,480	20,220,480	0	0	0	0	20,220,480	U
EASTERN	Kibungo Te	NGOMA	Travaux de construction de cinq (5) salles de classe à	2005	24,446,843	22,074,750	4,414,950	8,829,900	8,829,900			22,074,750	0
EASTERN	Kibungo To	NGOMA	l'Ecole primaire de Mvumba Execution de travaux de construction de 3 citernes	2006	14,794,320	14,794,320	2,128,248	5,917,728				8,045,976	6,748,344
			d'eau de 3M3 chacun au centre de sante Gituku à l'ecole secondaire Rurama et à l'ecole Primaire de										
			Rukira										
EASTERN		NGOMA	Alimentation en energie électrique de l'école secondaire de KABILIZI	2006	20,247,945	22,497,717	20,497,717					20,497,717	2,000,000
EASTERN		NGOMA	Aménagement des terrasses radicales - site	2006	20,459,880	22,733,200	8,183,952	8,183,952	4,091,976			20,459,880	2,273,320
EASTERN		NGOMA	MAHANGO I Construction du bureau du secteur MUTENDERI	2006	23,881,241	26,534,712	4,776,248	10,613,885				15,390,133	11,144,579
EASTERN		NGOMA	Aménagement des terrasses radicales	2006	30,297,622	33,664,025	12,119,049	12,119,049				24,238,098	9,425,927
EASTERN		NGOMA	RWANYAKAGEZI Aménagement des terrasses radicales KINANIRA	2006	23,470,267	26,078,075	9,388,107	9,388,107				18,776,214	7,301,861
EASTERN		NGOMA	Réhabilitation de la route en terre Hôpital Kibungo-	2006	33,461,100	37,179,000	6,692,220	13,384,440	13,384,440			33,461,100	3,717,900
			Rond point KAZO (4km)		55,101,100	57,175,000	3,07	10,000,000	10,000,000			55,101,100	5,777,500
EASTERN		NGOMA	Construction d'une citerne d'eau de 20 m3 au marché de NGOMA	2005	9,050,000	9,050,000	1,810,000	7,240,000				9,050,000	0
EASTERN		NGOMA	Construction du bureau du secteur KAZO	2006	24,291,000	26,990,000	4,858,200	9,716,400	12,415,400			26,990,000	0
EASTERN		NGOMA	Construction du bureau du secteur KAREMBO	2006	24,297,570	26,997,300	4,859,514	9,719,028	12,418,758			26,997,300	0
EASTERN		NGOMA	Construction du bureau du secteur RUKUMBERI	2006	23,378,220	25,975,800	4,675,644	9,351,288				14,026,932	11,948,868
EASTERN		NGOMA	Aménagement, stabilisation et viabilisation des	2007	23,271,125	23,271,125	9,308,450	9,308,450				18,616,900	4,654,225
EASTERN		NGOMA	terrasses radicales - site KANUNGA II Aménagement, stabilisation et viabilisation des	2006	23,271,125	23,271,125	9,308,450	9,308,450				18,616,900	4,654,225
			terrasses radicales - site KAMVUMBA										
EASTERN		NGOMA	Construction du bureau du secteur GASHANDA	2006	24,291,450	26,990,500	4,858,290	5,398,100				10,256,390	16,734,110
EASTERN EASTERN		NGOMA NGOMA	Silo de stockage "Cancoons" Construction du bureau du secteur JARAMA	2006	63,000,000 24,210,000	63,000,000 26,900,000	63,000,000 4,842,000					63,000,000 4,842,000	22,058,000
EASTERN		NGOMA	Construction du bureau du secteur MURAMA	2006	24,441,390	27,157,100	4,888,278	9,776,556	4,888,278			19,553,112	7,603,988
EASTERN		NGOMA	Construction du bureau du secteur MUGESERA	2006	27,200,000	27,200,000	10,880,000	7,110,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			10,880,000	16,320,000
EASTERN		NGOMA	Bureau du secteur RURENGE	2006	25,936,100	25,936,100	5,187,220					5,187,220	20,748,880
					690,107,683	728,535,549	271,471,177	184,079,429	97,795,732	10,124,843	0	563,471,181	165,064,368
EASTERN	Muvumba	NYAGATAR	Construction de 4 citerne d'eau a l'école secondaires		21,716,136	21,686,556	6,382,440	8,686,454	6,617,662	0	0	21,686,556	0
E A OFFERNI		NEVA CA TRAD	de Rukomo (Muvumba)	2002	< 500 000	< 500 000	5 000 000	1 500 000				< 500 000	
EASTERN		NYAGATAK	Construction du bureau du secteur NDAMA	2002	6,500,000	6,500,000	5,000,000	1,500,000				6,500,000	U
EASTERN	Kabare	NYAGATAR	Construction of Musheri-Kijojo road (6 km)		5,520,767	6,134,180	828,115	1,840,254	2,668,369			5,336,738	797,442
EASTERN	Bugaragara	NYAGATAR	Construction of Rwimiyaga market		31,112,398	32,968,510	5,934,332	11,868,664	11,868,663			29,671,659	3,296,851
EASTERN EASTERN	Umutara T		Construction of slaughter house in Umutara Town Construction of slaughter house in Umutara Town		19,200,038 2,688,762	19,200,038 2,688,762	2,880,006 2,688,762	2,880,006	5,760,011	7,680,015	0	19,200,038 2,688,762	0
	Umutara T		(Avenant)			, ,		0	U	0	U		U
EASTERN	Umutara T		Delivery of potable water to Rutaraka sector		28,984,382	28,984,382	7,040,448	7,040,448	9,387,264	5,516,222	0	28,984,382	0
EASTERN	Kabare	NYAGATAR	Electrification par l'energie solaire des centres de sante de Ntoma et Rwempasha		26,820,279	26,820,279	26,714,610	0	0	0	0	26,714,610	105,669
EASTERN	Kabare	NYAGATAR		2004	8,826,459	10,434,813	7,943,813	1,446,827	1,043,402	0	0	10,434,042	771
EASTERN	Bugaragara	NYAGATAR	Electrification par energie solaire du bureau du		10,217,502	11,325,404	10,192,864	0	0	0	0	10,192,864	1,132,540
EASTERN	Dugorogoro	NYAGATAR	District Forage d'un valley dam (BWIRA)		11,335,275	14,140,000	1,700,291	9,599,709				11,300,000	2,840,000
EASTERN	Bugaragara Kabare	NYAGATAR	Projet de telecommunication au Bureau de District		7,118,869	7,118,869	7,118,869	9,399,709	0	0	0	7,118,869	2,840,000
EASTERN	Kabare	NYAGATAR	Projet de telecommunication en milieu rural dans le secteur Rwempasha		8,180,869	8,180,869	8,180,869	0	0	0	0	8,180,869	0
EASTERN	Muvumba	NYAGATAR	Projet de telecommunication en milieu rural dans le		7,118,869	7,118,869	7,118,869	0	0	0	0	7,118,869	0
EASTERN	Kabare	NYAGATAR	secteur Rukomo Rehabiliation of Ntoma-Nyamiyonga road (13 km)		10,252,855	11,392,080	1,537,928	1,537,928	3,075,856			6,151,712	5,240,368
EASTERN			Rehabilitation of Gacundezi-Rukundo-Kabeza -		27,991,960	27,991,960	5,598,392	11,196,784	11,196,784	0	0	27,991,960	0
LA ROLLINIA	- Jugui agala	GATAN	Rwimiyaga road (12 km)		2.,771,700	2.,771,700	5,570,592	11,170,704	11,170,704		l	2.,551,500	U
EASTERN	Kabare	NYAGATAR	Rehabilitation of MUSHERI-KABARE road (10km)		10,118,570	11,188,650	3,035,571	3,035,571				6,071,142	5,117,508
EASTERN	Bugaragara	NYAGATAR	Rehabilitation of Nkrenke - Gacundezi road (6 km),		9,893,120	9,893,120	1,978,624	3,957,248	3,957,248	0	n	9,893,120	0
			Rwimiyaga sector		2,020,120	,,0,0,120	-,,,,0,024	2,737,240	2,737,240			,,0,0,120	
EASTERN	Ngarama	NYAGATAR	Travaux de construction du Dépôt de recoltes de		17,801,998	17,801,998	3,560,400	7,120,800				10,681,200	7,120,798
EASTERN		NYAGATAR	Mimuli dans le District de Nyagatare Aménagement des terrasses radicales dans le site de	2006	22,318,380	24,798,200	4,463,676	8,927,352				13,391,028	11,407,172
			BIHINGA - NYAKABUYE		,	,		,					. , .=

PROVINCE	IARY	BENEFICI ARY DISTRICT	NAME OF PROJECT		Amount Granted by CDF(FRW)		1st transfer Amount (FRW)	2nd transfer Amount (FRW)	3rd transfer Amount (FRW)	4th Transfer Amount (FRW)	5th Transfer	TOTAL	Balance to be disbursed
EASTERN			Aménagement des terrasses radicales dans le site de GISHORORO	2006	21,324,037	23,693,375	4,264,807					4,264,807	19,428,568
EASTERN		NYAGATAR	Aménagement des terrasses radicales dans le site de GAKIRAGE	2006	22,376,385	24,862,650	4,475,277					4,475,277	20,387,373
EASTERN		NYAGATAR	Réhabilitation des ponts sur la route GACUNDEZI - KABEZA (Lot 1) et NKERENKE - GACUNDEZI	2006	10,029,600	11,144,000	2,005,920	4,011,840	2,563,120	2563120		11,144,000	0
EASTERN		NYAGATAR	Electrification par énergie solaire de 4 bureaux des secteurs (KARAMA, KIYOMBE, RUKOMO et TABAGWE)	2006	34,034,693	34,034,693	34,034,693					34,034,693	0
EASTERN		NYAGATAR	Electrification par énergie solaire de 2 bureaux des secteurs (GATUMBA et MATIMBA)	2006	24,372,200	24,372,200	24,372,200					24,372,200	0
EASTERN		NYAGATAF	Construction du marché de NYAKIGANDO	2006	34,138,474	37,931,638	6,827,695	13,655,390	8,724,277	8724277		37,931,639	1
EASTERN		NYAGATAF	Aménagement des terrasses radicales - site KANYEGANYEGE - NYAKIGANDO	2006	24,862,650	24,862,650	9,945,060					9,945,060	14,917,590
EASTERN		NYAGATAF	Silo de stockage "Cancoons"	2006	60,000,000	60,000,000	60,000,000					60,000,000	0
EASTERN		NYAGATAR	Réhabilitation de la route KARANGAZI - KIREBE - KAMATE	2006	243,746,300	243,746,300	48,749,260					48,749,260	194,997,040
					768,601,827	791,015,045	314,573,791	98,305,275	66,862,656	24,483,634	0	504,225,356	286,789,689
EASTERN	Muhazi	RWAMAGA	Amanagement de 14 sources en eau potable dans 15 cellules		10,757,880	12,421,400	2,151,576	4,303,152	4,303,152	0	0	10,757,880	1,663,520
EASTERN	Bicumbi	RWAMAGA	Construction du marche moderne de Ntunga		54,934,511	56,897,671	12,801,976	17,922,766	20483162			51,207,904	5,689,767
EASTERN	Bicumbi	RWAMAGA	Construction d'un abbatoir à Karenge		10,575,498	14,122,588	3,172,649	7,402,849				10,575,498	3,547,090
EASTERN	Ü	RWAMAGA	Construction of a modern market at Rwamagana - PHASE III		33,701,277	32,741,089	10,110,383	10,110,383	12,520,323			32,741,089	0
EASTERN		RWAMAGA	Construction of a modern market at Rwamagana - PHASE IV		56,065,740	71,996,450	11,213,148	22,426,296	22,426,296	15,930,710	0	71,996,450	0
EASTERN	Bicumbi		Réhabilitation de l'addiction d'eau par pompage dans la secteur Gahengeri, Rwamashyongoshyo et		25,301,852	27,856,858	7,590,556	7,590,556	10,120,740			25,301,852	2,555,006
EASTERN	Muhazi		Travaux de construction du bureau de secteur Gishari-Muhazi		13,050,574			5,220,230				7,830,345	5,220,229
EASTERN		RWAMAGA	Travaux de construction du bureau de secteur MUNYAGA	2006	23,780,970	26,423,300	4,756,194	9,512,388	6,077,209			20,345,791	6,077,509
EASTERN		RWAMAGA	Travaux de construction du bureau de secteur NYAKALIRO	2006	26,857,600	26,857,600	4,834,368	9,668,736	6,177,248			20,680,352	6,177,248
EASTERN		RWAMAGA	Travaux de construction du bureau de secteur RUBONA	2006	22,155,120	24,616,800	4,431,024	8,862,048	5,661,864			18,954,936	5,661,864
EASTERN		RWAMAGA	Construction du bureau du secteur MUHAZI	2006	24,920,400	24,920,400	4,485,672	9,968,000				14,453,672	10,466,728
EASTERN			Projet de silo de stockage "Cancoons"	2006	42,000,000	42,000,000	42,000,000					42,000,000	0
EASTERN			Marché Moderne de RWAMAGANA Phase V	2006	88,921,704		17,784,341	29,640,568				47,424,909	51,376,984
EASTERN		RWAMAGA	Construction d'un four de briques moderne	2007	5,782,200	5,782,200	5,782,200					5,782,200	0
					438,805,326	478,488,823	133,724,202	142,627,972	87,769,994	15,930,710	0	380,052,878	98,435,945
TOT	TAL EASTI	ERN			5,337,299,725	5,661,386,042	2,045,803,470	1,152,612,640	661,195,946	92,948,708	0	3,952,560,764	1,708,825,278

付属資料 4 Preparatory Study(事前評価調査報告書)

G.Director	T. Director	Officer

Creation Date: 17 December, 2007

Reception Date:

1. Title of the Cooperation Project and Name of the Project Proponent

(1) Title of the Cooperation Project

The Study on Improvement of Rural Water Supply in the Eastern Province

(2) Name of the Project Proponent

Ministry of Land, Environment, Forestry, Water, and Mines

Eastern Province

2.Outline of the Project (Location, Project Description)

(1) Location

Eastern Province (Nyagatare, Gatsibo, Kayonza, Rwamagana, Bugesera, Ngoma and Kirehe Districts)

- (2) Project Description
 - 1) Objectives of the Study
 - To formulate a Water Supply Plan in the Eastern Province for the target year of 2020
 - To conduct a preliminary design on the priority projects selected from the Water Supply Plan for the target year of 2015
 - 2) Outline of the Master Plan and Feasibility Study

Main items of master plan and feasibility study will consist of schematic lay-out plan of the water supply facilities including groundwater analysis, proposal for management policies and strengthening institutional capacity, and technical support for environmental and social consideration. The facilities will consist of upgrading and expansion of the existing facilities, construction of new water treatment plant and distribution facilities.

- 3.Legal Framework of Environmental and Social Considerations (Law, Competent Agency, Projects subject to EIA, Procedures, Information Disclosure and Stakeholders participation)
 - (1) Law

Present Rwandan laws related to Environment are as follows;

- 1) Organic Law N° 04/2005 of 08/04/2005
- 2) General Guidelines and Procedure for Environmental Impact Assessment (2006)

(2) Competent Agency

Rwanda Environment Management Authority (REMA)

(3) Project subject to IEIA or EIA

According to the Organic Law, article 67, "Every project shall be subjected to environmental impact assessment, before obtaining authorization for its implementation. This applies to programs and policies that may affect the environment. An order of the Minister having environment in his or her attributions shall determine the list of projects mentioned in this organic law".

(4) Procedures

The Procedures are stipulated in the "General Guidelines and Procedure for Environmental Impact Assessment (2006)", Part 2, which shown in Annex 1 to 4. EIA process involves the following four stages, namely: the Environmental Impact Initiation phase involving screening and scoping. Following this is the Impact Study Phase, which includes impact identification and analysis, development of mitigation measures and preparation of the report. The decision-making and authorization phase entails review of EIA reports and to either approve or disapprove a project. Lastly, environmental management and follow-up phase deals with monitoring aspects of the project during its implementation.

(5) Information Disclosure and Stakeholders participation

The "General Guidelines and Procedure for Environmental Impact Assessment (2006)" stipulates the provision for public participation and access to information in Part 6. While methods of public participation will depend on circumstances of each EIA, the following are considered appropriate:

- i) Public review of Environmental Impact Report,
- ii) Informal group meetings with local community groups and leaders,
- iii) Workshops,
- iv) Public displays or bulletin boards posted in communities,
- v) Public notification and calls for written comments on proposed project/activities,
- vi) Participation in scoping processes,
- vii) Survey of a groups or individuals who are representative of the various interests being affected by a proposal,
- viii) Consultation with focus groups to identify issues specific to certain stakeholders,
- ix) Comment and review of the EIA,
- x) Distribution of relevant documents to the interested members of the public.

4. Outline of the Location

(1) Population

The population in the Eastern Province is around 1.9 million. (Nyagatare: 328,658,

Gatsibo: 283,456, Kayonza: 234,106, Rwamagana: 255,630, Bugesera: 274,113, Ngoma:

271,585, Kirehe: 292,215)

(2) Race

Hutu: 84%, Tutsi: 15%, Twa: 1%

It is, however, inappropriate to classify people by ethnicity in Rwanda.

(3) Economics

Major economic activities are livestock keeping and agriculture. The Eastern Province is home to the nation's milk- producing cattle keepers. Other livestock kept include sheep, goats, poultry, pigs, bees and fish.

Major crops grown include Rice, Maize, Beans, Sorghum, Cassava and Potatoes. The province intends to promote the cultivation and processing of, Cassava and Banana-based products. There is a variety of farm products cultivated in the higher altitude north and in the lower altitude central, east and southern parts of the province.

In areas with marshlands, they grow corn, vegetables, beans, soya, pepper, pineapple and rice. The priority is the growing of coffee, passion fruit, strawberry, and vanilla. It is worth noting here that the province is exposed to natural calamities especially drought in Bugesera and erosion in the north of the province

The power needs of the province are served by an electric power transitions line managed by Electrogaz. The distribution of power lines is moving at a good pace. With time all the whole districts will be served with electricity.

The Nothern province engages in trade with other provinces and neighboring countries providing mostly milk, beans, bananas, sorghum, maize, beef, hides and skins, cheese, butter and honey in exchange for fruits and Irish potatoes from other provinces.

The greatest problem affecting the agricultural sector in the Province is seasonal drought.

(4) Education

The current educational indexes are as follows;

- 1) Adult (all aged 15+) literacy ratio(%)(2006): male 71.5, female 60.1
- 2) Net primary school enrollment ratio(%)(2005-2006): male 84.8, female 86.9
- 3) Net secondary school attendance(%)(2005-2006):male 10.6, female 9.5

(5) Land use

The Eastern Province is composed of seven districts. In general, most of land is cultivated with rice, casaba, banana, and Irish potato except small commercial area in the center of each district. Rush posture can also be seen in some areas of Nyagatare and Gatsibo districts, where cattle breeding is a main business.

6) The Environment

The Eastern Provinces is fairly mountainous area with an altitude of 1,300m to 1,700m, and

some lakes, which are mainly used as a source for irrigation, are scattered in the Province. Deforestation results from uncontrolled cutting of trees for fuel, overgrazing, soil exhaustion, and soil erosion can be one of the biggest environmental issues in the Provinces.

The Eastern province is also home to Akagera National Park, shared by more than 500 species of bird, and animals including giraffe, elephant, rhino and hippopotamus. The National Park is located in the east of the Province along the Akagera River that is the natural border with Tanzania.

7) Existing Water Supply Facilities

Water coverage ratio in the Eastern Province is 49%, which is lower than the national average ratio of 72%. Although there is no inventory on water supply facilities in the Province, existing water supply facilities are hand pumps, piped water supply systems, dug well and spring(protected and unprotected).

5. Categorization and its Reason:

- (1) Categorization: This project is categorized as B.
- (2) Reasons
 - 1) As mentioned in the above 3. (3), EIA is imperative in Rwanda.
 - 2) Some environmental and social impacts will be prospective.

6. Provisional Scoping

(1) Adverse Impacts

Most significant adverse environmental impacts are:

- 1) Land acquisition for new water treatment plants and distribution facilities such as reservoirs, valve chambers on the pipeline and so on.
- 2) Hindrance to local populations such as noise, dust, vibration and traffic.
- 3) Increase of wastewater flow

(2) Envisioned Mitigation Measures

- With regard to land acquisition, mitigation measures will be considered on the basis of MP study. Following mitigation measures will be considered on the site selection.
 - Site selection shall be conducted on the basis whether the candidate sites have inhabitants and existing facilities or not. In case the site has inhabitants, Dialogue with inhabitants and disclosure of the information shall be executed.
 - Priority shall be given to publicly-owned areas and areas with a few inhabitants.
- 2) With regard to hindrance to local populations, construction method and work execution plan, which mitigate the adverse impacts, will be considered.

Following mitigation measures will be considered at the time of construction.

- to select the construction methods which minimize the noise, dust and cordoning
- · to draw up the construction plan which minimize the cordoning and to explain the

plan to inhabitants in advance

- · to adopt the safety measures during construction
- 3) With regard to increase of wastewater, adverse impact will be continuous.

Concerning the increase of wastewater, It is necessary to advocate the counter measure protecting the natural purification function of wet land and maintaining the natural environment balance.

4) With regard to sludge from water treatment plant(s), it is necessary to consider an appropriate treatment method (s) for the future plan. Most of existing water treatment plants in the Province has no sludge treatment process now. In case alternative plan for sludge treatment is considered, it is necessary to study in conjunction with the dumping or dealing methods.

(3) Alternatives

Enhancing the capacity of the existing water supply systems will be considered as an alternative plan. Following methods will be considered.

- · to rehabilitate hand pumps
- · to expand the distribution pipeline
- · to expand the water reservoir
- to expand the treatment plant(s)

This alternative plan will sustain the existing water supply systems to some extent of years.

Director	T. Director	Officer

Environmental and Social Considerations Review (環境社会配慮審査)

Reviewed Date

1. Title of the Cooperation Project

The Study on Improvement of Rural Water Supply in the Eastern Province

- 2. Categorization: B
- 3. Procedures in accordance with JICA Guidelines: Yes of No.
- 4. Areas, Categories and Rating System

	Description of the project and	Purpose, physical characteristics, scale and design of project; its	
1	local environmental and social	land requirements; types and quantities of residuals (e.g. wastes)	В
1	conditions	and methods or routes of their disposal; likely geographic extent of	ь
		the affected environment	
	Identification of key impacts	Identification of potential impacts of the project; scoping of	
2	and idea of alternatives	impacts; feasible alternatives planned, without project option and	В
	and idea of afternatives	most environmentally and socially friendly option	
2	Framework of environmental	Legal framework of assessment; terms of reference; information	В
3	and social considerations	disclosure and stakeholders consultation	D
		Overall assessment	В

A	Generally satisfactory and complete.
В	Can be considered just satisfactory.
С	Not satisfactory.
N/A	Not applicable.

5. Comments

Environment and Social consideration is still launching period in Rwanda. In fact, some discrepancies in opinion can be recognized even between MINITERE and REMA, and EIA has never been conducted towards water supply project in the country. It is, therefore, imperative to confirm the process of EIA in detail when the project is implemented.

付属資料 5 電気探査を実施する民間会社

「ル」国に事務所を置き、垂直電気探査を実施できる民間会社は、2 社(Foraky、SABA) ある。

会社名	連絡先	担当者	備考
Foraky Africa Rwanda	P.O.Box: 3356 Kigali	Carpentier Patrick (Directeur General)	井戸掘削、地質調査ボーリン グを主体とする会社。電気探 査はウガンダのサブコントラ クターが実施するとの話。
SABA Engineering Private Limited Company	P.O.Box: 2991 Kigali	Mesfin Asfaw (Rwanda Reprsentative)	エチオピア(アディズアベバ)に本社を持つ井戸掘削、 地質調査ボーリング、建設工事なども行う会社。カナダ製電気探査機器を保有しているとのこと。 www.saba-engineering.com

Scope of Work for The Study on Improvement of Rural Water Supply in the Eastern Province

Agreed upon between

Ministry of Land, Environment, Forestry, Water and Mines, Eastern Province and Japan International Cooperation Agency

Kigali, December 18, 2007

Mr. Takeo/ISHIKAWÁ

Leader,

Preparatory Study Team,

Japan International Cooperation Agency

Mr. Emmanuel NSANZUMUGANWA Secretary General,

Ministry of Land, Environment, Forestry, Water and Mines, Republic of Rwanda

Mr. Charles GASANA
Executive Secretary,
Eastern Province,
Republic of Rwanda

I. INTRODUCTION

In response to the official request of the Government of the Republic of Rwanda (hereinafter referred to as "the Rwandan Government") for the technical cooperation on the Development Study on Improvement of Rural Water Supply in the Eastern Province (hereinafter referred to as "the Study"), the Government of Japan decided to conduct the Study in accordance with relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation projects of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Rwandan Government.

The present document sets forth the scope of work with regard to the Study and will be valid after the approval by JICA Headquarters.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

- 1. to formulate the Water Supply Plan in the Eastern Province for the target year of 2020.
- 2. to conduct the preliminary design on the priority projects selected from the Water Supply Plan for the target year of 2015.

III. STUDY AREA

The Study will cover all seven (7) Districts in the Eastern Province. Annex I shows the Study area.

IV. SCOPE OF THE STUDY

PHASE I: Formulation of Water Supply Plan

- (1) Collection and review of existing data and materials
 - (a) Socio-economic condition
 - (b) Natural condition
 - (c) Socio-economic development plans, other development plans, policies of national and local governments and cooperation planning of other related donor agencies.
 - (d) Existing legal framework for water resources development, water supply, and sanitation
 - (e) Existing institutional framework for rural water supply
 - (f) Existing database related to water supply
- (2) Survey on current water supply situation
 - (a) Existing water supply scheme (facility conditions, water quality, operation and maintenance, water tariff etc.)
 - (b) Survey on rural inhabitants (actual condition of water consumption, settlement structure)
 - (c) Situation on rural electrification and future plan
- (3) Water demand projection
- (4) Study on water resources potential
 - (a) Review and analysis of meteorological, hydrological, and hydro-geological data and information
 - (b) Ground water survey (reading of aero photograph/satellite imagery, hydro-geological field survey, geophysical exploration, and analysis of existing borehole data)
 - (c) Surface water survey (observation of spring discharge, analysis of river discharge data, analysis of lake water levels, and present state of water utilization)



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- (d) Water quality analysis
- (e) Preparation of preliminary hydro-geological map
- (f) Water balance analysis
- (g) Evaluation of water potential
- (5) Formulation of Water Supply Plan
 - (a) Water resources development plan
 - (b) Development and rehabilitation plan of water supply schemes
 - (c) Recommendation to the operation, maintenance and management plan (*) .
 - (d) Recommendation to the improvement plans for institutional framework (*) .
 - (e) Recommendation to the hygiene and sanitation promotion plan $\ (*)$.
 - (f) Approximate estimation of project implementation cost
 - (g) Technical assistance on Initial Environmental Examination (IEE) for environmental and social consideration (including public consultation with communities and stakeholders, if necessary)
 - (h) Project evaluation (economic, financial, institutional, technical, social, and environmental)

Note *: For those Recommendations, the output of the JICA's "Technical Cooperation Project for Improvement of Water Supply and Sanitation in Southern Part of Eastern Province" will be used. The cooperation period spans from Apr.2007 to Dec. 2010.

(6) Selection of Priority Project(s)

PHASE II: Preliminary Design on Priority Project(s)

- Collection of supplemental data
- (2) Supplemental field surveys
- (3) Designing preliminary facilities
- (4) Formulation of construction plan
- (5) Formulation of operation, maintenance and management plan (*) .
- (6) Preliminary cost estimation
- (7) Technical assistance on Environmental Impact Assessment (EIA) (if necessary)
- (8) Project evaluation (economic, financial, institutional, technical, social, and environmental)
- (9) Formulation of project implementation plan (target year: 2015)

Note *: For (5), the output of the JICA's "Technical Cooperation Project for Improvement of Water Supply and Sanitation in Southern Part of Eastern Province" will be used. The cooperation period spans from Apr.2007 to Dec. 2010.

V. SCHEDULE OF THE STUDY

The Study will be carried out in the period of 15 months in accordance with the tentative schedule as attached in Annex II.

VI. REPORTS

JICA shall prepare and submit the following reports to the Rwandan Government.

1. Inception Report (English):

Fifteen (15) copies will be submitted at the commencement of the first phase in Rwanda. This report will contain the schedule and methodology of the Study as well as outline of the field survey.

2. Progress Report (English):

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Fifteen (15) copies will be submitted during the first phase in Rwanda. The report contains the progress of the study, which will include the results of field survey and data analysis.

3. Interim Report (English):

Fifteen (15) copies will be submitted at the end of the first phase in Rwanda. The report contains the interim progress of the study, which will include Water Supply Plan and the selection of priority project(s).

4. Draft Final Report (English and French):

Fifteen (15) copies will be submitted at the commencement of final survey in Rwanda. The report contains the outcome of the study, which will include the preliminary design on the priority project(s). The Rwandan Government shall submit its comments within one (1) month after the receipt of the Draft Final Report.

5. Final Report (English and French):

Thirty (30) copies will be submitted within one (1) month after the receipt of the comments on the Draft Final Report.

VII. UNDERTAKINGS OF THE RWANDAN GOVERNMENT

- 1. The Rwandan Government shall accord privileges, exemptions and other benefits to the Japanese study team (hereinafter referred to as "the Team") in accordance with the Agreement on Technical Cooperation between the Government of Japan and the Government of the Republic of Rwanda, signed on January 14, 2005.
- 2. The Rwandan Government shall bear claims, if any arises, against the members of the Team resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the Team.
- 3. MINITERE and the Eastern Province shall act as counterpart agencies to the Team and also as coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.
- 4. MINITERE and the Eastern Province shall, at its own expense, provide the Team with the following, in cooperation with other organizations concerned:
 - (1) security-related information on as well as measures to ensure the safety of the Team,
 - (2) information on as well as support in obtaining medical service,
 - (3) available data, information and studies related to the Study,
 - (4) counterpart personnel,
 - (5) suitable office space with necessary office equipment and furniture, and
 - (6) credentials or identification cards.

VIII. CONSULTATION

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

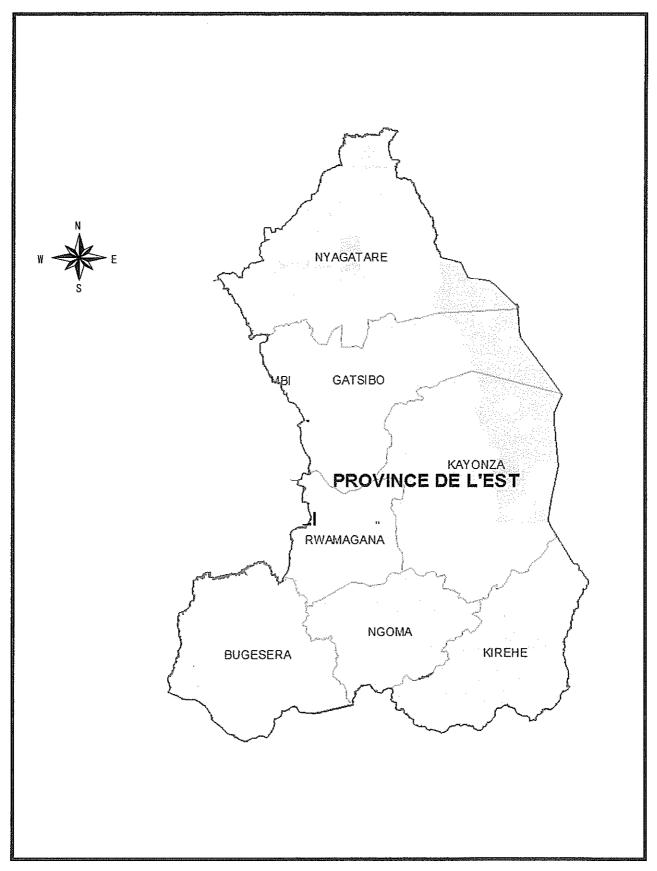
ANNEX-1 Map of the Study Area

ANNEX-2 Tentative Schedule



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ANNEX-1 Map of the Study Area







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Annex-2 Tentative Schedule

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Phase				- Phas	e 1			->		<		hase	2		→
Working Period										7-			-		
						lack		A						A	
Report	IC/R					P/R		IT/R				DF/R		F/R	

IC/R=Inception Report P/R=Progress Report IT/R=Interim Report DF/R=Draft Final Report F/R=Final Report

___working in Japan

working in Rwanda

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Minutes of Meetings
on
the Scope of Work
for
The Study on Improvement of Rural Water Supply
in
The Eastern Province

Agreed upon between

Ministry of Land, Environment, Forestry, Water and Mines,
Eastern Province
and
Japan International Cooperation Agency

Kigali, December 18, 2007

Mr. Takéo ISHIKAWA

Leader,

Preparatory Study Team,

Japan International Cooperation Agency

Mr. Emmanuel NSANZUMUGANWA

Secretary General,

Ministry of Land, Environment,

Forestry, Water and Mines,

Republic of Rwanda

Mr. Charles GASANA Executive Secretary, Eastern Province, Republic of Rwanda

In response to the official request of the Government of the Republic of Rwanda (hereinafter referred to as "the Rwandan Government"), the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Preparatory Study Team (hereinafter referred to as "the Team"), headed by Mr. Takeo ISHIKAWA, to Rwanda from December 2 to December 20, 2007 to discuss the Scope of Work (hereinafter referred to as "the S/W") for the Development Study on Improvement of Rural Water Supply in the Eastern Province (hereinafter referred to as "the Study").

During its stay in Rwanda, the Team held a series of meetings with Ministry of Land, Environment, Forestry, Water and Mines (hereinafter referred to as "MINITERE"), the Eastern Province and its seven Districts and other authorities concerned and conducted site surveys.

As a result of the discussions, both sides came to an agreement on the S/W, which was signed on December 18, 2007.

The Minutes of Meetings have been prepared for the better understanding of the S/W. Both sides agreed and confirmed the following points for the smooth implementation of the Study.

Validity of the S/W

Both sides confirmed that the S/W would come into effect after the approval of the JICA Headquarters.

Areas for the Formulation of the Water Supply Plan

Both sides agreed that the Japanese side would conduct the survey for the formulation of the Water Supply Plan in the Areas selected with the criteria such as;

- 1) Areas where existing water supply schemes are not covering,
- 2) Areas where no development plans of water resources nor supplies are formulated by other donors,
- 3) Areas where existing water supply schemes are not functioning.

The area selection will be conducted based on the information collected from Rwandan Authorities and reviewed by the Study team.

Therefore, both sides also agreed that based on the official request issued by the Executive Secretary of the Eastern Province to the respective seven (7) Districts (Annex 1), the Eastern Province would submit the "Initial Inventory of current water supply" to JICA Rwanda office by the end of January, 2008.

Target Year for the Water Supply Plan and for the Preliminary Design

Both sides agreed that the target year for the Water Supply Plan would be year 2020 according to the Rwandan Policies (Vision 2020, EDPRS) and the target year for the Priority Projects would be 2015.

4. Tentative Criteria for the Selection of Priority Projects

Both sides agreed to the tentative criteria for the selection of Priority Projects as below. The



Criteria would be revised during the Phase 1, having consultation with Rwandan side.

- scarcity of potable water
- 2) water resource potential
- effectiveness to approach to poorer and socially vulnerable people
- 4) willingness to pay and feasibility of operation and maintenance.
- 5) environmental impact
- 6) no duplication with other projects related to the rural water supply, and
- 7) priority by the Districts

5. Utilization of the Outputs of the JICA's Technical Cooperation Project

Both sides agreed that as for elaboration of Recommendation to the operation, maintenance and management plan, Recommendation to the improvement plans for institutional framework and Recommendation to the hygiene and sanitation promotion plan as part of Water Supply Plan and Operation, maintenance and management plan as parts of Preliminary Design on Priority Projects, the output of the JICA's Technical Cooperation Project "Improvement of Water and Sanitation in the Southern Part of the Eastern Province" would be fully utilized in the Study.

6. Pre-Estimation of the Water Supply Plan

Both sides confirmed that the total cost and population to be served by the Water Supply Plan would be the one as shown in the Table-1. The figures shown in the Table are derived from very rough estimation by the Team and subject to be a full revision and re-calculation by the Study team.

Table-1 Pre- estimation of Water Supply Plan

	P	resent Status		(ref:estimat missi	•		Water Supply Pl	lan (2010-2	020)
District	Population (2007/ thousand)	Coverage Ratio (2007/%)	Served population (thousand)	Coverage Ratio (2007/%)	Served population (thousand)	Population (2020)	Population to be Served by the Projects	Coverage Ratio (2020)	Cost for Construction (thousand US\$)
Rwamagana	256	48.0%	123	54.1%	138	348	225	100%	12,439
Kayonza	234	49.9%	117	48.9%	114	319	202	100%	13,260
Ngoma	235	64.0%	150	26.0%	61	320	170	100%	9,511
Kirehe	292	38.0%	[]]	17.0%	50	398	287	100%	15,855
Gatsibo	283	38.0%	108	49.3%	140	386	278	100%	15,894
Nyagatare	329	46.0%	151	58.1%	191	447	296	100%	18,251
Bugesera	274	63.8%	175	69.4%	190	373	198	100%	12,156
TOTAL	1,903	49.1%	935	46.5%	884	2,590	1,656	100%	97,366

Remarks:

DDPs

DDPs

estimated by the mision

2.4% per year

based on the Rwandan unit

Note: The cost for rehabilitation is not included.



7. Availability of the Funds for the Implementation of the Water Supply Plan

Rwandan side confirmed that the total cost of US\$ 97 million in the period of 2010-2020 (US\$ 8.8 Million per year) necessary for the implementation of the Water Supply Plan would be affordable, and would take necessary measures to bring the donor funds, taking into consideration the total amount of RWF 16.9 Billion (US\$ 31 million) and RWF 22.1 Billion (US\$ 40.6 million) invested for the water supply in Rwanda in the fiscal year 2006 and 2007 respectively.

8. Rain Water Harvesting

Both sides confirmed that the Study would not treat rainwater as an alternative for potable water, although in some DDPs (District Development Plans) the possibility and plan of utilizing the rain water harvesting is mentioned.

9. Counterpart Personnel

Both sides agreed that MINITERE, the Eastern Province, and its each district would allocate the following number of engineers in charge of water as counterpart personnel before the end of January, 2008.

•MINITERE: Two or Three (2~3) Engineers

Eastern Province : One (1) EngineerEach District : One (1) Engineer each

10. Seminars and Site Surveys

Both sides agreed that the counterparts would actively participate in the technical seminars to be held during the Study and also would actively accompany with the Study team in the site surveys, at their own expense, so that the progress and results will be shared by both sides.

11. Steering Committee

Both sides agreed that the Rwandan side would establish the Steering Committee, co-chaired by the Secretary General of MINITERE and Executive Secretary of the Eastern Province in order to share the results and to give feedbacks to the progress of the Study.

The committee will comprise MINITERE, the Eastern Province and its each District, and other related partners. The committee meetings will be held four (4) times during the Study Period as shown in the Annex 2 of the S/W.

12. Reports

Both sides agreed that the Final Report should be open to the general public in order to share the Study results with relevant organizations as many as possible.

13. Environmental and Social Consideration

The Team explained the JICA's Environmental and Social Consideration Guideline to be applied to the Study. The Rwandan Government understood the policy of JICA's guideline, and agreed in principle to the following responsibilities and requirements.

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- (1) Based on the guideline, the Rwandan Government shall be responsible for conducting Initial Environmental Examination (IEE) and Environmental Impact Assessment (EIA) in accordance with environmental laws and regulations of the Rwandan Government, in collaboration with JICA.
- (2) JICA shall provide MINITERE with technical support in order to conduct IEE and EIA.
- (3) In the course of conducting IEE and EIA, public consultations with communities and stakeholders shall be included, if necessary.
- (4) The disclosure of information such as Study Reports is necessary to ensure the participation and dialogues with various stakeholders, in order to achieve appropriate environmental and social considerations.

14. Office Space

MINITERE and the Eastern Province agreed to provide adequate office space, necessary office equipment and furniture both at MINITERE in Kigali and at Rwamagana.

15. Provision of the Necessary Information

In accordance with the Article VII.4.(3) of the S/W, both sides confirmed that Rwandan side would provide the necessary information with the Study Team, including the following items;

- a) Aero photograph of the target area
- b) Re-settlement Policy (Imidugudu Policy) in the Eastern Province
- c) Hydro-geological data conducted by PDRCIU projects.
- d) Progress on the sector reform on water supply
- e) Water supply projects to be conducted by the other donor funds and
- f) Financial status of the related organizations such as District.

16. Position of the Study in the National Policies

Both sides confirmed that the Study is consistent with the Policies such as Vision 2020, EDPRS and shall be utilized in order to concretize the District Development Plans (DDPs).

17. Vehicles

MINITERE requested the Team that the Japanese side would arrange an appropriate number of vehicles with drivers. The Team would convey this request to JICA HDQs.





ANNEX 1: Draft of the letter to be issued by the Eastern Province on the submission of "Initial Inventory of current water supply"

Logo of the Republic of Rwanda with

Address of the Eastern Province

Pre-Inventory information for JICA Study on Rural Water Supply

To the District Mayors (all)

The Eastern Province in cooperation with Japan International Cooperation Agency (JICA) will conduct a development study on rural water supply Plan for the whole Province in order to attain the target, 100% of coverage ratio by year 2020.

For the efficient and smooth implementation, we would like to conduct pre-inventory survey before commencement of this Study.

Thus, we would like you to fill out the questionnaire attached, and send it back to us before the end of January, 2008.

Thanking you.

yours faithfully, Mutsindashyaka Théoneste, Governor







Form A (Initial Inventory JICA)

District:

			Imroved wat	Imroved water supply scheme	Ф				Unimproved water source	ater source		
Population	Spring w	Spring water (protected)	Hand	Hand-pump		Public water stand	River, swamp.	River, swamp, back water, pond, lake	Shallow dug wel	Shallow dug well (not protected)	1	Spring water (not protected)
	No.	served population	No.	served population	No.	served population	No.	served population	No.	served population	No.	served population

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I mulaire A (Inventaire Initial JIC/

District:

-					 	 	 	 			
		sources non-amenagees	population deservie								
		Sources no	Nombre								
	on potable	ollinnaires	population deservie								
	Source d'eau non potable	Barrages collinnaires	Nombre								
		Riviere, lac, marais, eau stagnante	population deservie								
		Riviere, la sta	Nombre	ı		•					
	- The manufacture of the second secon	bornes fontaines publiques	population deservie								
		bornes font	Nombre								
	Sources d'eau potable	puits de forrage (boreholes)	population deservie								
	Source	puits de for	Nombre								
		sources amenagees	population deservie								
		sources	Nombre						-		
		Population		:							
orrent.		Ceffule				•					

Form B(Initial Inventory JICA)

District: Sector:

	esent Status water facility												
Water Committee	(In case of existing) of water facility present status												
Water Co	Exists (II			are advitable from when the recommendation and the second									
Quantity of the	source (I/s)												
Number of	ő												
Number of	served												
	year of rehabilitation												
vear of	1000												
	Cell												•
	Name of the Water source												
	°2	1		7		3		4		S.	 	9	

Y: Yes N: No

AV: Active NA: Not Active

VG: Very good G: Good F: Fair B: Bad

At Date:..... By: Signature:

Formulaire B(Inventaire Initial JICA)

District: Secteur:

	eau													
	Etat actuel du source d'eau													
Comité de gestion	(si comite en place) Etat actuel			Supplies a				And Andrews of the Control of the Co						
	en Place									Winnest			***************************************	
	Q à la source (l/s)				W White Annual control					ALL LIVE AND				
Nbre des	personnes dans ces mé nages													
	ménages desservis													
	Année de ré habilitation													
Année de	Cellule constructi													
	1													
	Nom de source de l'eau potable	1		2		8		4	*	2		9		

U: Oui N: No

AV: Active PA: pas Active

TB: Très bien B: Bien M: Moyen MA: Mal

Fait à Date:

Signature:

Par: