Project 2

UMUSHINGA WO GUKWIRAKWIZA AMAZI MEZA MU MIRENGE YA CYANIKA NA RUGARAMA

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CENTRAL AFRICAN REGIONAL PROGRAM FOR THE ENVIRONMENT (CARPE/USAID), VIRUNGA FOCAL AREA, DEMOCRATIC REPUBLIC OF CONGO AND RWANDA: a WWF led Consortium, including WCS, SNV and AWF, made possible with the generous support of the American People.

Izina ry'umushinga: Umushinga wo gukwirakwiza amazi meza mu mirenge ya Cyanika na Rugarama

Umwirondoro wa nyir'umushinga

Ubudehe bw'umurenge wa Cyanika na Rugarama

Akarere umushinga uzakoreramo

Imirenge ya Cyanika na Rugarama ibarizwa mu Karere ka Burera, Intara y'Amajyaruguru, ikaba inaturiye pariki y'ibirunga.

Cyanika : utugari 6, imidugudu 52, abaturage 34 387
Rugarama : utugari 4, imidigidu 34, abaturage 21 395

Indi mishinga uhari : UNICEF, MOUCECORE, MUTOBO BASSE

<u>Amateka y'Akarere</u>

Kuva kera imirenge ya Cyanika na Rugarama yaranzwe no kutagira amazi meza. Abaturage bakora urugendo rw'ibirometero bigera kuri 18 bavoma amazi y'ibirohwa mu biyaga bya Burera na Ruhondo.

<u>Ibikorwa remezo bihaboneka</u>

Umuhanda wa kaburimbo
Amasoko ya Rugarama na Nyagahinga
Centre 6 z'ubucuruzi zikomeye
Amavuriro 2

Isobanurampamvu y'umushinga

Uyu mushinga wahiswemo kubera ibibazo byagaragaye mu karere :

- Kwangiza pariki y'ibirunga bwitwaje gushaka amazi
- Indwara ziterwa n'ibura ry'amazi : inzoka zo mu nda, amibe, amacinya, kolera, n'izindi ziterwa n'umwanda.
- Gukora urugendo rurerure bajya gushaka amazi: ibirometero 18 kugenda no kugaruka.

<u>Ingaruka ziterwa n'ibibazo</u>

- Impfu z'abana ziterwa n'impiswi
- Ababyeyi bahora kwa muganga bajya kuvuza bigatuma badakora imirimo yo kwiteza imbere
- Umubare w'abaturage barwaye amibe ugenda urushaho kwiyongera, bikadindiza iterambere rusange ry'akarere
- Abana batiga neza kubera gukora urugendo rurerure bajya kuvoma
- Abaturage bata imirimo ibateza imbere bakiririwa bagiye gushaka amazi

- Impanuka mu mihanda no mu mazi (ibiyaga) z'abajya kuvoma mu biyaga bya Burera na Ruhondo.

Impamvu umushinga wahiswemo

Tumaze kubona ibibazo by'indwara ziterwa n'amazi mabi n'urugendo rurerure byakuruye ubukene mu baturage, kwangiza pariki bitwaje gushaka amazi, dusuzumye uburyo imishinga ya Mutobo basse n'iya ruguru, MOUCECORE yubatse ibigega bifata amazi y'imvura ariko ikibazo cy'amazi meza ntigikemurwe kubera umubare w'abaturage batuye akarere ari benshi.

Twasanze uyu mushinga ari ngombwa kubera ko uzageza ku baturage 15% badafite amazi meza batuye mu tugari dukoze kuri pariki y'ibirunga hifashishijwe umuyoboro w'amazi mushya washamikira kuri Mutobo ya ruguru no kubaka ibigega bifata amazi y'imvura mu midugudu itazashobora kugerwaho n'uriya muyoboro mu baturage bagera kuri 5%.

Mu mishinga yari isanzwe nka UNICEF , MOUCECORE, MUTOBO BASSE yagize icyo ikora, ariko kubera ubwinshi bw'abaturage batuye iyo mirenge ya Cyanika na Rugarama amazi yabaye make:

- Abaturage babonye amazi ya UNICEF bangana na 20% by'abaturage batuye iyo mirenge $\frac{(34\ 387 + 21\ 395) \times 20}{100} = 11\ 156$
- Abaturage babonye amazi ya MOUCECORE bangana na 1% by'abaturage batuye iyo mirenge $\frac{(34\ 387 + 21\ 395) \times 1}{100} = 558$
- Abaturage babonye amazi ya Mutobo basse bangana na 4% by'abaturage batuye iyo mirenge $\frac{(34\ 387 + 21\ 395) \times 4}{100} = 2\ 231$

Intego z'umushinga

Intego rusange: Kuzamura imibereho myiza y'abaturage ba Cyanika na Rugarama babona amazi meza.

Intego zihariye

- Kugeza amazi meza akomoka kuri Mutobo ya ruguru ku baturage 15% batuye mu midugudu ya Nyagisenyi, Bisura, Gakore, Karisimbi, Bahimba, Kaziguro, Gashunguro, Mbonabose, Kanyabaranzi, Musave, Kabira, Gasiza na Ryabiteyi.
- Kubaka ibigega bifata amazi y'imvura bigafasha abaturage 5% batuye mu midugudu ya Karisimbi, Bahimba, Gashunguru (igice cya ruguru), Kaziguro (igice cya ruguru), Mugarama, Mugeshi, Kabero, Bisura na Gakenke.
- Gufata neza amavomo n'isuku yayo

Abagenerwabikorwa

Abagenerwabikorwa b'ako kanya ni abaturage batuye imirenge ya cyanika na Rugarama bangana n'ibihumbi cumi na kimwe n'ijana na mirongo itanu na batandatu (11 156): abagabo 5 128, abagore 6 028

- Abahinzi bakenera amazi yo guteresha umuti w'ibirayi
- Abenzi b'ibigage
- Aborozi b'inka n'amatungo magufi
- Ibigo by'amashuri abanza
- Inzu z'ubuyobozi (utugari n'imidugudu)
- Insengero na Kiliziya
- Abacuruza amazi kuri kiosque z'amazi

Abagenerwabikorwa ba nyuma ni:

- Abaturage bose muri rusange
- Abaturanyi b'igihugu cya Uganda

Ingamba/Ikoranabuhanga

Gukwirakwiza amazi ya Mutobo ya ruguru

Uko bizakorwa

Hazakorwa umuyoboro wa 2 ushamikiye ku wa mbere uturutse kuri centre ya Kanyirarebe.

Kuri iyo centre ya Kanyirarebe hazubakwa ikigega kinini kizajya kibika amazi azagaburira umuyoboro kugeza kuri centre ya Rohero ahazubakwa ikindi kigega kizajya kigaburira igice cy'umuyoboro gisigaye (Rohero –Ryabiteye).

Nyuma yo kubaka ibigega bibika amazi, hazacukurwa umuyoboro hifashishijwe abatekinisiye n'abaturage mu gikorwa cy'ubudehe. Uwo muyoboro uzakurikira umuhanda waharuwe n'abaturage uva Kanyirarebe-Ryabiteyi.

Kubaka ibigega bifata amazi y'imvura

Uko bizakorwa

Abaturage bazakoresha amazi y'imvura bangana na 5% : $\frac{34\ 387\ \ x\ 5}{100}$ = 1 719

Abaturage 1719 bagizwe n'imiryango 286. Ikigega 1 kizajya kivomwaho n'imiryango 5 (buri muryango ugizwe n'abantu 6).
Hazubakwa ibigega byose hamwe 55.

Imicungire y'amazi

- Gushyiraho komite z'amavomo n'isuku. Ku mavomo mirongo itatu azubakwa, buri kagari kazanyurwamo n'umuyoboro, kazagira komite
- Hazatorwa komite 5, buri komite irimo abantu 5.
- Ku bigega 55 bizubakwa, buri kagari karimo ibyo bigega kazagira komite icunga ibigega by'amazi y'imvura.
- Izo komite zose zizaba zishinzwe kandi n'ibijyanye n'isuku y'amavomo n'ibigega. Raporo zigatangwa ku kagari.
- Abagize izo komite bagomba guhugurirwa ibyo bazakora.
- Mu rwego rwo kwinjiza umutungo ukomoka ku mavomo, hazashyirwaho amapiganwa ya ba rwiyemezamirimo.

IMBONERAHAMWE Y'IBIKORWA

INTEGO YIHARIYE 1: GUKWIRAKWIZA AMAZI MEZA YA MUTOBO YA RUGURU

Ibikorwa	**Ibipimo**	**Igenura**	**Inzitizi**
Gucukura umuyoboro	Umuyoboro 1 = Km 15 Amezi 6	Raporo z'abakuru b'imidugudu	Kumena amakoro
Kubaka ibigega	Ibigega 2 bibika amezi 2	Raporo z'ubuyobozi bw'akagari	Imihanda mibi
Gutaba amatiyo	Amatiyo 2500 Amezi 3	Raporo z'abakuru b'imidugudu	-
Kubaka amavomo	Amavomo 30 ukwezi 1	Raporo z'abakuru b'imidugudu	-

INTEGO YIHARIYE 2 : KUBAKA IBIGEGA BIFATA AMAZI Y'IMVURA

Ibikorwa	**Ibipimo**	**Igenura**	**Inzitizi**
Gutunda amabuye n'umucanga	Amasiteri 1650 y'amabuye Amakamyo 275 y'umucanga Ukwezi 1	Raporo y'ubuyobozi bw'Akagari	Imihanda mibi
Kuzamura ibigega	55 (1 = m^3 25) amezi 3	Raporo y'ubuyobozi bw'Akagari	-
Gusakara	Ibigega 55 amabati 1100 Ukwezi 1	Raporo y'ubuyobozi bw'Akagari	-

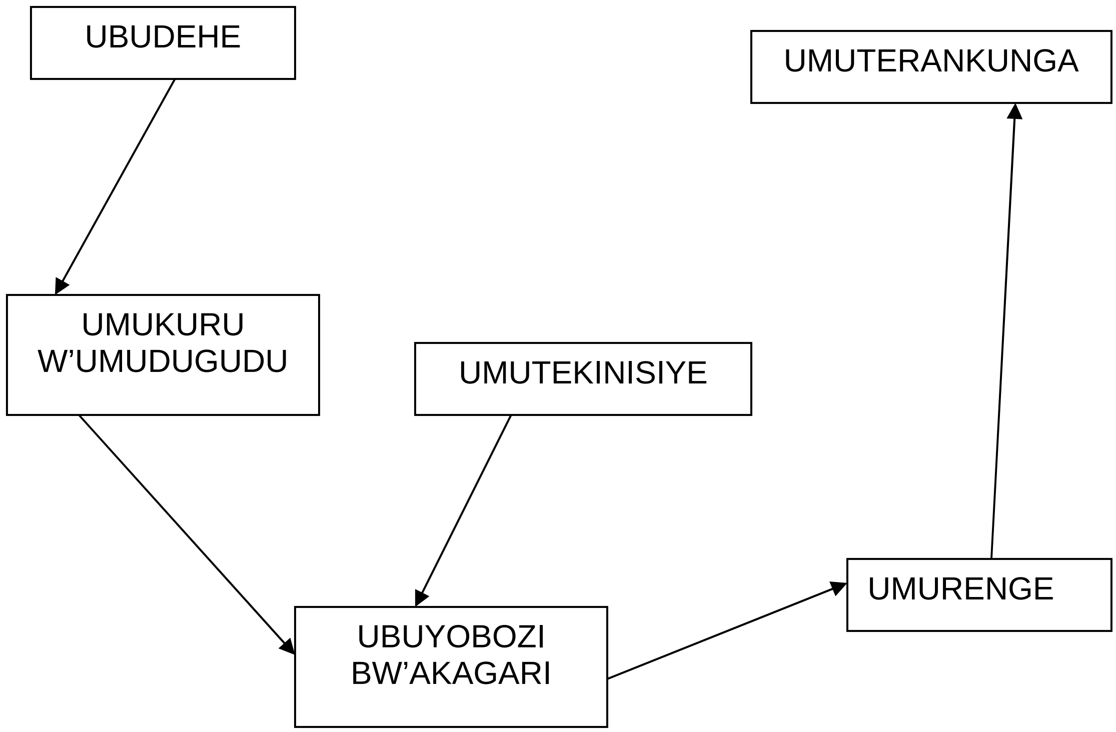
INTEGO YIHARIYE 3 : GUFATA NEZA AMAVOMO –IBIGEGA

Ibikorwa	**Ibipimo**	**Igenura**	**Inzitizi**
Gutora komite z'amavomo, n'ibigega	Komite 5 z'amavomo Komite 3 z'ibigega (ukwezi 1)	Raporo z'ubuyobozi bw'utugari	-
Gushyiraho komite ncungamutungo	Komite 5 z'amavomo Komite 3 z'ibigega Buri myaka 2	Raporo z'ubuyobozi bw'utugari	-
Gushyira gahunda y'isuku n'isukura (ipiganwa na ba rwiyemezamirimo)	Ba rwiyemezamirimo 2, mu mwaka 1	Raporo ya komite zicunga amazi	Kwica amasezerano
Gukusanya umusanzu	Ijerikani 1 = 10F kureba m3 zagurishijwe	Raporo ya komite y'amavomo	Kunyonga compteur y'amazi Kurigisa umutungo (Frw)
Gusukura ibigega	1 mu kwezi	Raporo ya komite y'ibigega bifata amazi y'imvura	Ibura ry'imiti ishyirwa mu mazi

GAHUNDA Y'IKURIKIRANWA N'ISUZUMA RY'UMUSHINGA

Igikorwa	Amakuru akenewe	Igihe	Ubishinzwe		
			Gukusanya	**Gusesengura**	**Guhuza**
Intego 1 1. Gucukura umuyoboro 2. kubaka ibigega bibika amazi 3. Gutaba amatiyo 4. kubaka amavomo	• Kumenya imiterere y'aho umuyoboro uzanyura • Kumenya umubare w'ibikenewe (ibikoresho) • Umubare w'amatiyo yatabwe • Kumenya ibikoresho byakoreshejwe	Ibyumweru 2 Buri munsi Buri munsi Buri munsi	Umutekinisiye Abakuru b'imidugudu + komite z'ubudehe Abakuru b'imidugudu + komite z'ubudehe Abakuru b'imidugudu + komite z'ubudehe	Akagari Akagari Akagari Akagari	Imirenge Cyanika na Rugarama Imirenge Cyanika na Rugarama Imirenge Cyanika na Rugarama Imirenge Cyanika na Rugarama
Intego 2 1. Gutunda amabuye n'umucanga 2. Kuzamura ibigega 3. Gusakara	• kumenya ahari amabuye n'umucanga • kumenya ibiciro by'ibikoresho bikenewe (isima, fer à béton) • kumenya ubwoko bw'amabati azaramba • kumenya ahazava ibiti byo guhanika	Icyumweru 1 Buri munsi Ukwezi 1 (mbere)	Umutekinisiye w'ubwubatsi Umutekinisiye Umutekinisiye + komite y'ubudehe	Akagari Akagari Akagari	Imirenge ya Cyanika na Rugarama Imirenge Imirenge
Intego 3 1. Gutora komite z'amavomo 2. Gushyiraho komite zicunga amazi 3. Gushyiraho gahunda y'isuku n'isukura, ipiganwa na ba rwiyemezamirimo 4. Gusuzuma ikusanwya ry'umusanzu 5. Gusyira umuti mu bigega by'amazi y'imvura	• Ubunyangamugayo bw'abazatorwa • Kumenya inzobere mu micungire y'amazi • Kumenya ba rwiyemezamirimo bafite uburambe • Kumenya ibiciro by'amazi bidahinduka • Kumenya ahazagurirwa imiti, ibiciro n'ubuziranenge bwayo	Buri munsi Ukwezi 1 (mbere) Ukwezi 1 (mbere) Buri munsi Buri munsi	Komite y'ubudehe Komite y'mavomo Komite y'amavomo n'isuku Komite zicunga amazi Komite y'ibigega by'amazi y'imvura	Akagari Akagari Akagari Akagari Akagari	Imirenge Imirenge Imirenge Umurenge umurenge

URUHEREREKANE RWA RAPORO



AKAMARO K'UMUSHINGA

1. Ku bukungu

- Kwiyongera k'umutungo mu miryango : abaturage batagaga igihe bashaka amazi, icyo gihe bazagikoresha mu bikorwa byo kwiteza imbere
- Amafaranga abaturage batangaga bagura amazi ku giciro gihenze (ijerikani = 100 Frw) bazayakoresha mu bindi bikorwa by'iterambere
- Umusaruro ukomoka ku buhinzi n'ubworozi uziyongera : imyaka izavomerwa, amatungo yuhirwe kenshi mu munsi
- Abaturage bazabona amafaranga akomoka ku bwubatsi n'imicungire y'umuyoboro n'ibigega

2. Ku mibereho myiza y'abaturage

- Indwara ziterwa n'ibura ry'amazi zizagabanuka
- Isuku iziyongera
- Abana bataga igihe bajya kuvoma baziga neza kandi bigire ahasukuye

3. Ku bidukikije

Ubusugire bw'inyamaswa n'ibimera byo muri pariki y'ibirunga
Amazi y'ibiyaga aziyongera n'umutungo kamere wabyo (amafi) utekane

4. Ku bwuzuzanye n'uburinganire bw'abagabo n'abagore

Umutekano mu ngo cyane umugore
Umugore aziteza imbere mu yindi mirimo
Abagore bazitabwaho mu micungire y'amavomo

UBURAMBE BW'UMUSHINGA

1. Tekiniki : ibikorwa n'ikoranabuhanga

Nyuma y'umushinga hazashyirwaho umukozi uhoraho (umutekinisiye) ukurikirana gusana ibyangiritse mu muyoboro n'ibigega.

2. Imari n'umutungo

- Nyuma y'umushinga umuyoboro uzahabwa ba rwiyemezamirimo : abavomyi bazatanga amafaranga, 30% by'amafaranga azaba ay'ubudehe; 20% muri ELECTROGAZ, 50% azaba aya rwiyemezamirimo.
- Kuzigama kuri konti z'ubudehe

3. Imiyoborere n'uruhare rw'inzego n'abaturage

- Nyuma y'umushinga hazanozwa imikorere ya za komite z'amavomo n'ibigega.
- Nyuma y'umushinga komite z'ubudehe zizakontorora ko komite z'amavomo zikora neza.
- Nyuma y'umushinga abanyamabanga nshigwabikorwa b'utugari mu nshingano zabo haziyongeraho gukurikirana ibikorwa by'ayo mazi.

INGENGO Y'IMARI Y'UMUSHINGA

INGENGO Y'IMARI Y'IBIKORWA

Intego ya 1 : Gukwirakwiza amazi meza ya Mutobo

Igikorwa	Ibikenewe	Ingano	Ikiguzi cya 1	Ikiguzi cya byose
1. Gucukura umuyoboro	• Amasuka • Ibitiyo • Amapiki • Imitarimba • Ingorofani • Inyundo • Komporoseri+ mazutu • Dekametero	50 20 10 10 10 10 1 1	1500 1500 4000 5000 15000 5000 20 000 000 4000	75 000 30 000 40 000 50 000 150 000 50 000 20 000 000 4 000
2. Kubaka ibigega	• Ibibanza • Amabuye (camion) • Ciment (sac) • Fer à béton • Gravier + déplacement (camion) • Umucanga +déplacement (camion) • Amatiyo	2 10 120 16.5 2 10 6	300 000 35 000 13 000 12 000 50 000 25 000 2 000	600 000 350 000 1 560 000 200 000 100 000 250 000 12 000
3. Gutaba amatiyo	• Amatiyo + déplacement (camion	2 500	12 000 4 000	30 000 000 1 000 000
4. kubaka amavomo	• Amatafari (camion) • Robinet • Ciment (sac)	2 60 60	105 000 5 000 13 000	210 000 300 000 780 000
	IGITERANYO			**55 761 000**

Intego ya 2 : Kubaka ibigega bifata amazi y'imvura

Igikorwa	Ibikenewe	Ingano	Ikiguzi cya 1	Ikiguzi cya byose
1. gutunda amabuye n'umucanga	• Imodoka (camion) • Imodoka (camion)	30 275	20 000 30 000	600 000 82 500
2. kuzamura ibigega	• Ciment (sac) • Fer à béton • Robinet	1650 16.5 55	13 000 12 000 5 000	21 145 000 1 980 000 27 500
3. gusakara	• Amabati • Ibiti • Imisumari (kg)	1100 1100 220	7 500 1 200 1 500	8 250 000 1 320 000 330 000
	IGITERANYO			**121 921 000**

Intego ya 3: Gufata neza amavomo

Igikorwa	Ibikenewe	Ingano	Ikiguzi cya 1	Ikiguzi cya byose

1. Gutora komite z'amavomo n'ibigega	• Amahugurwa
	• Ku mavomo
	  • Abahugurwa
	• Ku bigega
	  • Abahugurwa
	• uhugura
		20/6j
		12/6j
		1/12j
			3 000/j
			3 000/j
			10 000/j
				360000
				216000
				120000

2. Gushyiraho komite ncungamutungo	• Amahugurwa	20/6j	3 000/j	360000
3. Gushyiraho gahunda n'isuku n'isukura	• Igitabo cy'ipiganwa	4	40 000	160000
4. Gusukura ibigega by'amazi y'imvura	• Imiti ishyirwa mu mazi	20 silo	250	5000
	IGITERANYO			**1 221 000**

IMISHAHARA, INGENDO N'IBIKORESHO

N°	Icyo ari cyo	Ingano	Ikiguzi cya 1	Ikiguzi cya byose
1.	Uzakora inyigo	1	1 000 000	1 000 000
2.	Abazacukura umuyoboro	50	(amezi 6) 180 000	9 000 000
3.	Umutekinisiye uzubaka ibigega	2	1 000 000	2 000 000
4.	Gutaba amatiyo	50	(amezi 3) 90 000	4 500 000
5.	Kubaka amavomo	30	12 000	360 000
6.	Uzazamura ibigega	55	200 000	11 000 000
7.	Ingendo z'uzagura ibikoresho	3	300 000	900 000
8.	Gusakara (abakozi)	2	(ikigega) 8 000	440 000
9.	Amakayi amakaramu	84 84		16 800 84 000
10.	Abakozi bazakoresha komporoseri	2		1 440 000
	IGITERANYO			**30 665 200**

IGITERANYO CY'INGENGO Y'IMARI

Icyo ari cyo	Umubare
Ibikorwa	121 946 200
Umushahara	31 861 000
IGITERANYO	**153 807 200**

Icyo ari cyo	Umubare
Umwaka 1	153 807 200
Umwaka 2	
Umwaka 3	
IGITERANYO	

AHO INGENGO Y'IMARI IZATURUKA

Abaturage	8 850 000
Inkunga	144 957 200
IGITERANYO	**153 807 200**

INGENGABIHE Y'IBIKORWA

INTEGO YA 1 : GUKWIRAKWIZA AMAZI MEZA YA MUTOBO YA RUGURU

Igikorwa (ukwezi	**Umwaka wa 1**												**Umwaka wa 2**
	1	2	3	4	5	6	7	8	9	10	11	12	
• Gucukura umuyoboro	x	x	x	x	x	x							
• Kubaka ibigega bibika amazi	x	x	x										
• Gutaba amatiyo							x	x	x				
• Kubaka amavomo										x			
INTEGO 2 : KUBAKA IBIGEBA BIFATA AMZI Y'IMVURA													
• Gutunda amabuye n'umucanga	x												
• Kuzamura ibigega		x	x	x									
• Gusakara					x								
• Gutora komite z'amavomo n'ibigega												x	
• Gutora komite ncungamutungo													x
• Gushyiraho gahunda y'isuku n'isukura (ipiganwa rya rwiyemezamirimo)													x
• Gusukura ibigega by'amazi y'imvura								x				x	x

UMWANZURO

Uyu mushinga wo kwirakwiza mazi meza no kubaka ibigeba bifata amazi y'imvura uziye igihe cyane cyane ko ugiye gukemura ibibazo byinshi mu bukungu, mu mibereho myiza y'abaturage no kurengera ibidukikije.
Akaba ari umushinga uteguye neza kandi urahendutse, urashoboka kandi ukaba uzatera ingaruka nziza.