

PART 2

Zambezi River Authority



Kariba Dam Rehabilitation Project (KDRP)

Environmental and Social Impact Assessment (ESIA) **Appendices**



Revised – October 12, 2020
Zambezi River Authority
Kariba

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ATTENDANCE REGISTER

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ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
SELYN MCLEOD			0949 457029	—	SIAVONGA	
CHRISTOPHER KIRKHAM	T. V. Welches		047945 7029	—	SIAVONGA	
MARIONE M. KATINA	G / worker		09652813 9999	—	SIAVONGA	
HISTO PHEW MKHUMWA	g / worker		096574 9117	—	SIAVONGA	
EDDIE JOSHUA	PLUMPTON THACTOKI DASH	DANIEL B182	098917 098917	—	SIAVONGA	

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Sgt C. Mullen	Business Man	On Comp.	09776357 97	09776357 97	27 Sianonga	KHL
Chubsea	Business and Computer Tech.	Our Computer	097834 5240	097834 5240	MCC	ALICE
NOTED	Steel Doctor	Welder	0965335459	0965335459		
DAVIS	Davis		0962- 979201	0962- 979201	2 Sianonga	MCC
RICK			0967963829		XAC 27	SIANONGA
MIRI						

Meeting:

Date:

10/10/2014

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Gordon Sibon Joe	COMBAC Zesco	Stress	0973389- 3770	-	Sivonga	
Teddy Kelyanga		-	0971755 3074	-	Sivonga	
Mulenga Mwonda	Conselor Zesco	441850 keeper	09732019- 09615805 61	-	Sivonga	
Goeffry Siwakwi		-	097341 4870	-	Sivonga	
WAZISON COMBA		-	0977 1083 36	-	SIVONGA	
OSENTH MONGA		-	098333 7973 09722043	-	SIVONGA	

Meeting:
Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
KAYUNA LIA MUTIE LO 195	-	-	0967474684	-	SIPNGA	
Maynard WANGOMA	-	-	0976100971	-	STANZANGA	
KASDZWE DREDERIT	-	-	09694663698	-	KASDZWE Comp	
KENNETY HARWENE	-	-	09691612507	-	KENNETY Comp	
PETER CHEEK	-	-	0962692167	-	KENNETY Comp	
JAMES NKAFA	-	-	0963196998 096257762	-	KENNETY Comp	

Meeting:

Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Glorious SIBALWA			0979349763 0933064276		Kariba Comp	
KOIA Kasunwa 96			09776346	11	Kariba Comp	
Ryness Hernandez					Kariba Comp	
TUES S JAINCHA			09620195	14	Kariba Comp	
Joyce Humatake			09745552	58	Kariba comp	
SELISHO CHILONGWA					096529250	Kariba

Meeting:

Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Mary Mandolo			0971567814		Kariba	
Loness Mbulanya				-	Kariba	
Tembo					ZARIBA	
LAINESS foudes BANDA			0974966919	09625233 50	ZARIBA	
JULIET NYUMARA	ROSEMARY LONGWE		0976-242060	0972950736	ZARIBA	
						JOHN MUSINA
						D95430911
						KAFABIT

Meeting:
Date:

Probate meeting
07/11/2014

SBS

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
ELEZABETH INAMBAO	—	—	0963834488 0950263222 0963831269	—	New apostolic church p.o box 140	—
Wesley Deshay	—	—	0978289447	—	Sac Simons	—
DEOPHISTER MUNAKE	—	—	097830030	—	KALIBA BASIC SCHOOL BOX 140	—
Mildred Kapwanya	—	—	097244398	—	LIPALE basic school box 140	—
SUSAN INAMBAO	—	—	09793925 09793925 20	—	Kariba basic School p.o Box 140	—
UZI PIRI Chimbima	—	—	—	—	BOX 82 STAND 5A	4102

Meeting:

Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Jadeen Kambohm			0973 63 27 57	-	Kariba basic School	
Miriam HABANIA WA 199			097174 8959		NEW APOSTOLIC CHURCH P.O. Box 24	
Miriam Ngonya			096210 4104		Church of Christ	
Judith maipens			097985 6482	-	NEW APOSTOLIC CHURCH P.O. Box 24	
BRENDAN Mwandwa			09631 5215	-		
CHARLES SIRIBANGA			097880 8159	-		

Meeting:

Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
N. MBANGWETA	MUGAPE FISHERIES	C.E.O.	0919 399872	—	Box 65 SIANONGA	
L. HAKARATE	LOCHNER HAKARATE	—	09652800	—	—	
200						
R. PITHIE	—	—	09784339	—	—	
Tobias Bondi	WIL	—	09667955	—	Box 140 K.R.B Basic School	House No 9 Block (3) SIANONGA
Watson Kakengwe	WIL	—	0978 607037	—	—	—
NETO B. BANGWE	—	—	097817 1803	—	—	WITELTO

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
EDOICKA LIMBA YULUADA	-	-	09774456353	-	Box 100 SIARONSA	zumbamerica8@gmail.com
ESSY KANDIJO	-	-	-	-	LA-DE-BE UCE SIARONSA	-
SMAK HAMIDAT	-	-	0962020925	-	-	-
STADDOON JAMBELLER	-	-	09700903 88	-	LOCBALA BLOCK 24 michue	-
WES MUSEDA ANNUCCA.	-	-	-	0973773585	KABUBA SET SIARONSA	-
MUNARDO ACDEVOR MANZO MUSAMA	-	-	-	0975140743 0977585264	Barrio 180 School Box 10 SIARONSA	KABUBA BASIC School P.B.R. 140 SIARONSA
WALES MACHAIKINSE	-	-	-	-	0977847515	-

202
E:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Sia Nyandawa	—	—	0975395263	Kariba BL 4	—	—
Mwai Mweziwa	—	—	0968660450	YARIBA BL 1	—	—
WAKAMBI	—	—	0978667900	Lusupuko	—	—
Aisha	—	—	0976-188075	BLOCK 1 Kariba	—	—
Lucy Musukale	—	—	0979-472658	Block 1 Kariba	tamezambezi@ yahoo.com	—
NOCHI MATIPENZI	—	—	0974222757	Block 1 Munibba	—	—

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E:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Nakalibwa MESSAGE						
MICEMI TA LI			0976547850 0964742151		Kariba BASIC SCHOOL P.O. BOX 140	
MOLIE MUNJANA					Kariba BASIC School P. O. Box 140	
NAOMI BANDA				0976161746	KARIBA BASIC SCHOOL P.O BOX 140	
RECCA NWALE				0968716707	KARIBA BASIC SCHOOL P.O BOX 140	
WANELI NWALE					215 ATTITSS	Kariba Basic School Box 140

ing:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MACHA Mweetwa			0979404195		MALIBA BASIC SCHOOL P.O BOX 140	
BELIA Mbilinda			0979088380 0979088372		Kambo school P.O BOX 140 Kusonanga	
ARISIA MANYEPYA			097908816 097908812		Kambo P.O BOX Lionong	
OLIVE Kembelele			09797015 23		Kambo P.O BOX 140	
MRS TOWLU Mbattem			09717521 85		Kambo P.O BOX 92	

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e:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Mosanda Mwanga			097609014		Kariba Box 92 Siavonga	
CATHY Numbu Mrs	women's Christian fellowship Secretary		097616611 7		Kariba Box 87 Siavonga	
ERITHA Minapse Hofferson Miss	ZANIBA National WOMENS Lobbay	Chair/ Person	09797844 62		KATIBA Basic Stall Box 140 Siavonga	
PETER Tshisekedi	JACIE ZAMBIA	Coordinator	0479782211		KATIBA	
JOHN KALABA						

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ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
DAVIS MULWANDA Mulwanda			0968216000		Karibga Sialonga 57	
WESTON E MULAMBYA	CATHOLIC BLACKLAYER			P.O. BOX 02 Sialonga		
Linda	catnolic		0964568461	0963515545		
DOROTHY LASOLODE	osphine aphande	catholic			Narina Basile School P.O. BOX 07	

string:
e:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
ANNA CHOOKE	—	○	09788932957 0975633263	○	THE APOSTLES CHURCH Box 182 PO Box 140-Kelvin	—
ATRICK TURNER	—	—	—	—	—	—
ACOB newman	—	—	0978342993	—	THE APOSTLES CHURCH	—
HARLETT MUNROE	—	—	0973865919	—	THE APOSTLES CHURCH	—
MUSOJO LIPSY	—	—	0977210352	—	25519916411	—
OBERRY MUNROE	—	—	—	—	P.O. Box 90, STRONGA.	—
SHACK BROWNE	—	—	0979859377	—	BOX 20 STRONGA	—

Meeting: Public meeting
Date: October

Mitch

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Peter Kafupi	—	—	0977682901	—	12	—
PAMELA M CHANDA	—	—	0962456219	—	—	—
PHD ES	Ham AIO BE	—	0975270087	—	Mitch KARIBA Block 4.	—
Tiger Subasi	—	—	0978343229	—	Block 2	—
PAUL MOTU	—	—	0975248411	—	—	Mitch
SMA RTI	HAM AIO BE	—	—	—	096202020	—

Meeting:

Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Mechia Haboun Talma			0961689 684	—	new apostolic church P.O Box 24 Savongia	
Miriam Masi Penzi			097543 0062	—	new apostolic church P.O Box 24 Savongia	
209						
DENNY SIAMASANDU			096233 4024	—	NEW APOSTOLIC CHURCH P.O BOX 21 Savonga	
Royd HATHAWAY			09764300 64	—	SDA	slavonga
SONE LASOONDC			09754300 64	—	CATHOLIC CHURCH P.O BOX 82 Savonga	

Meeting:

Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
CHAGTU NYANGU			097858 5363		Catalytic Sawm P.O BOX 82 SIASONCA	
HACAI ZANDU			097894 2853		Catalytic Sawm P.O BOX 82	
JOHN BUNGENO			09620 20925		MITEHO	
MUGABE MANDABIMA					MITEHO	
SSA RAYMOND JUSTIN NASHUTU				09667881 09757128 01	MITEHO	
ELIAS MAKUMBA				0961050226	MITEHO	
JUSTIN MOFU PROTASHO MOFU				0975248471 0975248411	MITEHO	protashomoju@yahoo.com

Meeting: Worship meeting
Date: On 10/07/2014

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
ISAAC SIMUKWE UCC		Member	092250 9335			
RICHARD MUNTHAU	UNITED CHURCH OF ZAMBIA	TEASURER	09787162 97			
MICHE WADAWASU	UNITED CHURCH OF ZAMBIA	Member	0977 112367			
BURE C. MWENDE	UNITED CHURCH OF ZAMBIA	SUNDAY SCHOOL TEACHER	0969 199171			
EVANS KALINDA	S.P.A	Sabbath School teacher	09659836 0965983688		Keriba boit school	
A Uem			0966581789		Mitcho	
Summehambu						

Meeting:
Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MIKE MIJOKA BAPTIST NEW TESTAMENT CHURCH	SALVATION ARMY	MEMBER	0967718787		KARIBA BASIC SCHOOL P.O. BOX 140 SIAMONGA	
DESAI MUNIRU A	Roman Catholic	Member	09777872473		KARIBA BASIC SCHOOL	
MOKRIED SMMERDE	UCZ	Member	0975661637			
MUNSAKA CAPITAL	UCZ	Member	0963316549			
MULANKWA ALICK	ROMAN CATHOLIC CHURCH MEMBER		0962460028 09514343719			
GIGEN CONDONG	SALVATION ARMY CHURCH	member	09468617191 0969967643		KARIBA BASIC SCHOOL P.O. BOX 140	
DANIES MUSIMBI	SALVATION ARMY	member	0977718660		KARIBA BASIC BOX 140	
NYAMBWE MUSHIMBI	NEW APOSTOLIC CHURCH	MEMBER	09623330 81		KARIBA BASIC BOX 140	

Meeting:
Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Jeffrey Njoroge		Driver	0962579300		Kariba -B - School P.O 140 Siavonga	
Chili Tunda	Mechanic	Fit/Teer	0962333067		KARIBA -B - SCHOOL P.O - 140 Siavonga	
Edna Zandaa			0978519148		KARIBA -B - SCHOOL P.O Box 140 Siavonga	
Bavia Mwendo			0974511125		Kariba -B - School P.O Box 140 Siavonga	
Grace Mwasera			0976060100		Kariba -B - School P.O Box 140 Siavonga	
Pegest Mwembwa			097711470		Siavonga	

Meeting:
Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Esther Muchimusa	S.D.A		09694711447		Kariba -B - School P.O Box 140 Siavonga.	
Francis Kauyembe	S.D.A		0976060100		Rumbwa -B - School P.O Box 140 Siavonga	
	S.D.A		0968384490		Kariba -B - School P.O Box 140 Siavonga	
	Kachela Nzala			0968194825	Kariba-B - School P.O Box 140 Siavonga	
	Derrick Mucando				Kariba B School Box 140 - Siavonga	
Musimam Aitongola	S.D.A.	G/waderer	0975035888			

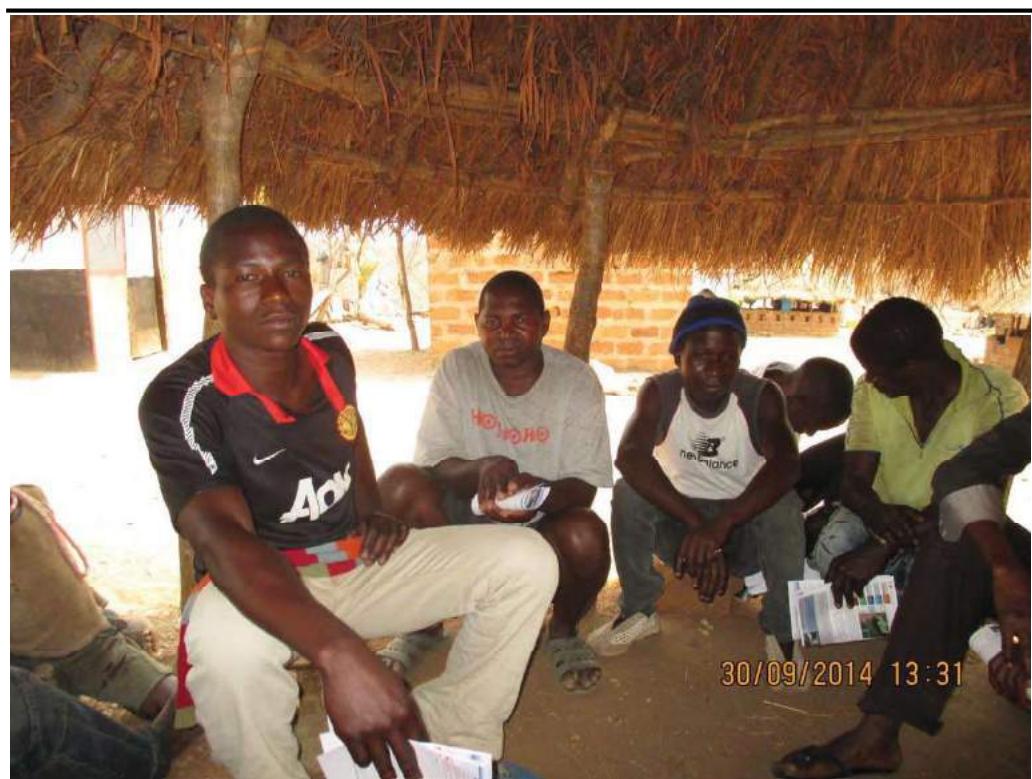
Meeting:
Date:

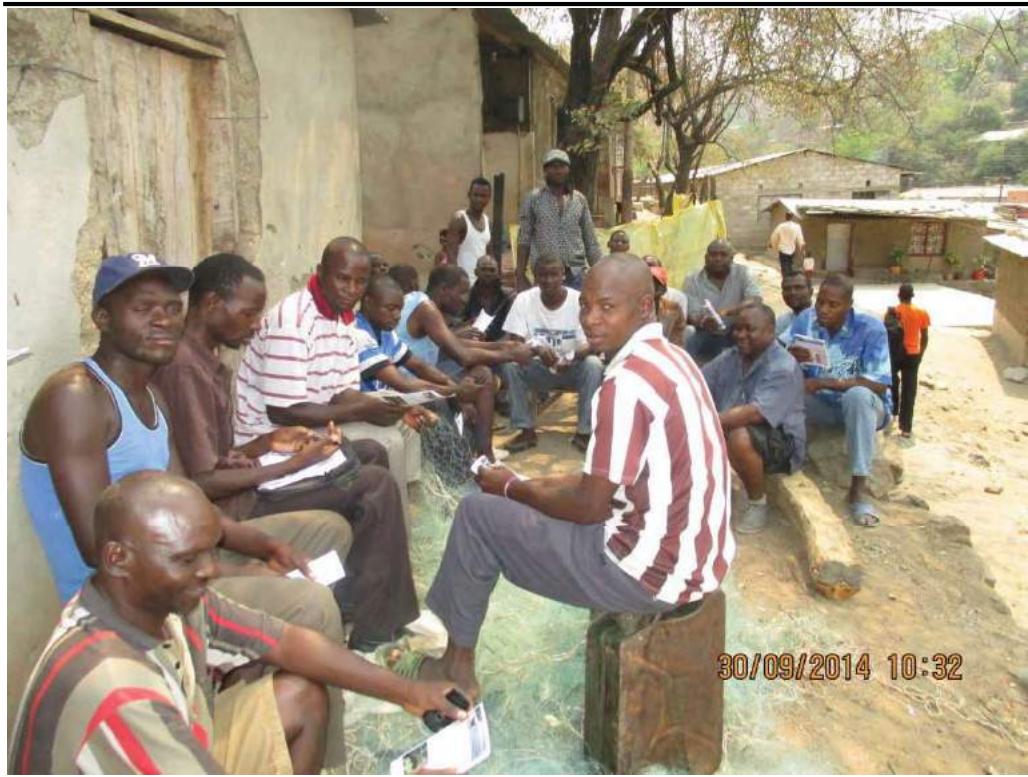
ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
BEST MULUBAWA		G/w	071525 553207		KARIBA B-SCHOOL Box 140, Siavonga	
SIMON PHIRI	CATHOLIC	WELDER DRIVER	06524998		Box 82 Siavonga	
OBINSI MASTUKA	CATHOLIC CURENT	MGT (HRM) P.M.D.	0776767676 07776767676		BOX 140 Siavonga	
CHRISPERIKWAH KAAZEE	S. D. A	G/w	0966836701		Box 140 Siavonga	
CHRISTOPHER MUPATAYI	CATHOLIC CHURC	G/w	0973597376		Box 140 Siavonga	
WESTERN MULAMBYA	CATHOLIC BLGCE	G/w			Box 140 Siavonga	KPBB

Annex B:12

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Annex B:13

Stakeholder Database

Authority	Contact	Email	Postal Address	Tel (w)	Mobile	Fax
National Level						
Environmental Council of Zambia - EIA Senior Inspector	Frederic Muyano		Box 35131, Lusaka	00260 211 254 130		260 211 254 164
Ministry of Tourism, Environment and Natural Resources	Environmental Manager - Ignatius Makumba					
Ministry of Energy and Water Development – Department of Water	Director	Box 50288, Lusaka	00260 211 252 570			
Ministry of Energy and Water Development – OPPPI	Israei Phiri	Box 36079, Lusaka				
Ministry of Energy and Water Development – Director of Energy	Oscar Kalumiana	Box 50288, Lusaka	00260 211 254 686			
Water Development Board	Director		00260 211 251 525			
Energy Regulation Board	Rogers Muyangwa	Box 37631, Lusaka	00260 211 236 002			260 211 236003
Zambia National Tourist Board	Director		00260 211 229 087			
Zambia Wildlife Authority	Zook Muluya		00260 211 255 775			
Wildlife Conservancy	Arthur Nkonde	Private Bag 4 Chilanga	00260 211 278 231			
Ministry of Health	Permanent Secretary		00260 211 253 050			
Ministry of Education	Permanent Secretary		00260 211 250 855			
National Heritage Conservation Commission	Director		00260 211 225 574			
Mine Safety Department - Senior Inspector	Aaron Soko		0955-381 159			
Provincial Level						
Central Province	Provincial Permanent Secretary - Mr Lumumba	Box 80903, Kabwe	00260 211 224 775			
Ministry of Agriculture Provincial Office	Provincial Officer - Mr Chileshe	Box 80434, Kabwe	00260 211 223 927			
Ministry of Livestock and Fisheries – Provincial Office	Provincial Officer					
Ministry of Lands – Provincial Land Officer	Provincial Land Officer - Mr Chunga					
Local Authority and Legislator Level						
Mukushi District – District Commissioner	Mr Musonda					
Mukushi District – Council	Chabala Mulundu					
Mukushi South Constituency – Member of Parliament	Mr Chisanga					
Tea Councillor						
General I&APs						
African Heights Limited - Principal Officer	Enock Bwalya	enock.bwalya@africanheights.com	P O Box 50113, Ridgeway Lusaka.	00260 211 281 024	00260 977807793,	00260 950952753
Siavonga District Council	Mr Nyambe Mushimbei		Siavonga District Council P O Box 12	0950 600067		
Meeting with Harbou Traders, Siavonga, Zambia 30 September 2014						
Eunice Likisho	Feliz Chisha	Lusaka	+260974074384			
Violet Mweemba	Christine Likisho	Siyavonga	+260978300446			
Angeliah Tenesi		Siyavonga	+260976601161			
Gladys Chembe		Siyavonga	+260978303519			
Violet Hamuchinga		Siyavonga	+260976707764			
Eunia Haakana		Siyavonga				
Ronica Lubinda		Siyavonga	+260950540981			
Mary Mungule		Siyavonga	+260976332350			
Pauline Chomba		Siyavonga	+260977368726			
Soft Hangoma		Siyavonga	+260979983172			
Chama Saya		Siyavonga	+260978479691			
Catherine Salamuka		Siyavonga	+260965699187			
Catherine Chuulo		Siyavonga				
catherine Nyeti		Siyavonga	+260972916761			
Jennifer Chilekwa		Siyavonga	+260976569709			
Emelia Mukali		Siyavonga	+260975831415			
Patricia Mulenga		Siyavonga	+260963839446			
Evelyn Chipopo		Siyavonga	+26096556960904			
Esther Chimowa		Siyavonga	+2609729493866			
Miriam Wowa		Siyavonga	+260966200754			

Bridget Nachilongo	Siyavonga	+260962558058
Susan Musenteke	Siyavonga	+26096553285
Astridah Mwansa	Siyavonga	
Justin Sikanyika	Siyavonga	+260967717160
Laston Mateusha	Lusaka	+260969667065
Frank Choomba	Siyavonga	+260971834937
Brendah Sibundonga	Siyavonga	+260975914082
Evans Nzala	Siyavonga	+260962019131
Bernard Hanjelesha	Kkole	
Wisdom siampande	Siyavonga	+260973834779
Willard mulopa	Siyavonga	+260979071553
James simbeya	Siyavonga	+260966278858
Nuyangua Muleya	Siyavonga	
Haluwinga Rotase	Siyavonga	+26097111462
Thomas Chossa	Siyavonga	+260975061662
Gilbert Hantala	Siyavonga	+260967561316
Rehim Makkampa	Siyavonga	+260953366166
Richard Mwansa	Siyavonga	+260974416644
Prince Hansukwa	Siyavonga	+260972148859
Neilbeser Mwansa	Siyavonga	+260972697595
Lot Bwalya	Siyavonga	
Siwale Robert	Siyavonga	+260978077950
Mather Smulele	Siyavonga	
Patience Sikaloba	Siyavonga	+260979389410
David Chigali	Siyavonga	
T Guta	Siyavonga	
E Kondowe	Siyavonga	+260774469912
M Hamad	Siyavonga	+260774548172
R Machenje	Siyavonga	+260772223984
M Chamudanga	Siyavonga	+260776222116
L Chisoni	Siyavonga	+260776809833
P Nyireka	Siyavonga	+260772892273
R Muriro	Siyavonga	+260737654833
R Mugiti	Siyavonga	+26077476007
Siavonga District Official Meeting 02 October 2014		
ERM	Felix Chicha	
National Assembly of Zambia	L. Hanziba	Ihanziba@yahoo.com
Hanest Help	Alexander Kasenzi	harvesthelp@zamtel.zt
Southern Water and Sewerage Company	Francis Siatwinda	francissiatwinda@gmail.com
District Administration	Benjamin Nwzoka	bnwzoka@yahoo.com
Dept of Fisheries	Mebaldo Wamulume	mebelowamulume@yahoo.com
Agriculture	James Nyirenda	nyirenda360@gmail.com
Chief Simamba's Representative	Pharwek L Simamba	ltingondwe@gmail.com
District AIDS Task Force	Tenwami Nach Andye	Box 67 Siavonga
Ministry of Chiefs and Traditional Affairs	Tamara Mutalama	Box 150 Siavonga
Siavonga District Council	Chitaluc C Ng'Andu	C10 POBox 150
Siavonga District Council	Grace C.E. Nwanza	Siavonga
District Education Board	Diala Lepria	+260977121632
Siavonga District Council	Leonard Hachitapika	Box 12 Siavonga
District Administration District Commissioners Office	Brian Samviola	Bpx 150 Siavonga
MCDMCH Dept of Community Development	Pamela Mwanachivena	+2609779966454
MCDMCH Dept of Social Welfare	Susan Nasilele	+260977664847,
Council	Brian Musonda	+26095566105
Water Affairs	Mwansa Malama	+26097754660
		+260977316769
		+260976827553

Forestry	Julius Mwansa Sniike Mzulah	mwansa.julius@yahoo.com snikemzulah@gmail.com	Box 41 Siavonga	+260979819378, +26095895587
The Post Newspaper	Steve Mwinga	mwiringasteve@yahoo.com		+260978944885
The Post Newspaper	Phallon B Mwaba	phallonmwaba@gmail.com	Box 16 Siavonga	+260977589221, +260966290033
MCDMCH District Medical Office				+260211511077
Micho One on One Meeting 03 October 2014				
Sinhydro	Manjata Regina Siyambango Sam Mwenge Richard Muntaali Emelia Shereni Twambo Kamyama Rita Chongo Longwe Peter Rosemary Longwe Rosa Muchindu Grammy Siyakantu Gertrude Mwanza Eliness S Theresa Mbeme Jane Sakala Elina Mwinga Mutinta Mazulu Ruth Mphande Bathati Mwakifwambwa		Siavonga (Micho) Siavonga (Micho)	+260978884649 +260979223228 +260968197928 +260978716297 +260963515345 +260979513535 +260950655722 +260979782211 +260972950336 +260977638504 +260974013734 +260962019817 +26095569654 +2609748041966 +260964328008
Siavonga Community Meeting 04 October 2014				
Sinhydro	Moffat Kifwabantu		Siavonga	+260972126924
Sinhydro	Zothin Momzi Patrick Sialujala Augustine Kazemke Steward Kapwaya Clement Chilinda Peter Chipepo Obby Malambo Steven Siabaza Stephens Sakuugura Nashion Lovemore Mwanza Caphas Mwinga Peter Kafute		Manchinchi Bay Lodge, PO Box 115 Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga Siavonga	+260977860229 +260975691876 +260962456856 +260962043491 +26097203561 +260967545173 +260965281322 +260968374454 +260976009645 +26097752495, +260963838315 +26096272508 +260978078133 +26097494049 +260973580002, +260974257594 +260977637220 +260971548895 +260968269954 +260968374329 +260965675559 +260979832082 +260967715393 +260950361404 +260978198313, +260965667478 +260964675844 +26095864968 +260961559849

	Best Mulopa	Slavonga	+260965855015,
	Mike Hachisibike	Slavonga	+260977972942
	Mandanda Hakamwi Kingsley	Slavonga	+260977341076
	Claude Malambo	Slavonga	+260967502805,
	Aaron Tembo	Slavonga	+260953849766
	Patrick Hadunka	Slavonga	+260967621582,
	Dylan Mutokatusi	Slavonga	+260953337061
	J Chiwala	Slavonga	+26096129989
	Moses Zula	Slavonga	+26096587001
	Nelson Mavuele	Slavonga	+260979718864
	Mupupa Mbvitile	Slavonga	+260972964869,
	Kwapu Phannel	Slavonga	+2609514972
	Ruben Hawmeene	Slavonga	+260979848889
	Haulu Cloud	Slavonga	+260976020583,
	Cherco Kandamh	Slavonga	+260965866702
	Tredox Twambo	Slavonga	+260979225934
	Munangandu Henry	Slavonga	+260971554599
	Chilundu Pharai	Slavonga	+26096278825
	Kennedy Muchaala	Slavonga	+260977528764
	Luka Nyambo	Slavonga	+260968644030
	Frank Chanda	Slavonga	+26097028830
	Rodwell Sangandee	Slavonga	+260971548473
	Evans Smudaza	Slavonga	+260972964776
	Vincent Siangandu	Slavonga	+260976914474
	Albert Rifitabanta	PO Box 16, Slavonga	+260977222207
	Alikai Siamujemu	Slavonga	+260973737184
	Cloud Mulonga	Slavonga	+260977638021
	Raphael Siakwale	Slavonga	+260979429023,
	Bornwell Siantubule	Slavonga	+260962327624
	Ackim C Haburo	Slavonga	+260978585377
	Frank Choomba	Slavonga	+260974553339,
	William Mombame	Slavonga	+260955553330
	Tyson Chibozu	Slavonga	+260977491671
	Injandu Mupona	Slavonga	+260961565267
	Chilundu Pharai	Slavonga	+260965278825
	Bernard Kunda	Kundaherd@gmail.com	+260974296182
	Herbert Musava	Slavonga	+260978968025
	John Kiwani	Slavonga	+260977491671
	Joseph R	Slavonga	+2609657833858
	Anthony Lupando	Slavonga	+260963240411
	Chongo Silvester	Slavonga	+260962453671
	Ozzy Cheelo	Slavonga	+260965104958,
	Nelson Cheelo	Slavonga	+260961565020
	Nelson Hantumbi	Slavonga	+260979149363
	Steven Mulopa	Slavonga	+260964085275
	Maybin Chimowa	Slavonga	+260967910692
	Milambo Levy	Slavonga	+260953044171
	Sibanda Humphrey	Slavonga	+260973202100
	Laison Banda	Slavonga	+260962697766
	Jamson Chiyako	Slavonga	+260972978846

Billion Mweene		Slavonga	+260978804795
Edwin Chisale		Slavonga	+260961560435
Bright Milambo		Slavonga	+260964030534
Banda Chrispin		Slavonga	+260967343532
Mabuuto Caambula		Slavonga	+260962019065
Dandy Mwila Nsofwa		Slavonga	+260973873962,
Golden Hachooona		Slavonga	+26094503921
Onixx Mambole		Slavonga	+260962697798
Jimmy Milambo		Slavonga	+260974325110
Justin Gialubaya		Slavonga	+260971983937
David Ngundu		Slavonga	+260975795703
Victor H Hazemba	victorhazemba@yahoo.com	Slavonga	+260978871820
Heribert Mwabba		Slavonga	+260977491671
Mayando Hacheta		Slavonga	+26097604255
Bizeck Zuzu		Slavonga	+260973074468
Charles Nchimunga		Slavonga	+260976700319
Chikanda Kennedy. M		Slavonga	+260974650544,
Derick Mwila		Slavonga	+260977902805
Paul Channinga	Channingapaul@yahoo.com	Slavonga	+260977639793
Motion Siamusiya		Slavonga	+260964592294,+260
Steward Njowe		Slavonga	972420879
Steven Kamunika		Slavonga	+260979829933
Constatin Sivoya		Slavonga	+260950361404,
Malauti Chautila		Slavonga	+260978465848,
Mayandip Kasosa		Slavonga	+260963741187
Gabriel Kakinga		Slavonga	+260976025330,
Oscar Dumbula		Slavonga	+260967991237
Mwendwa Danister		Slavonga	+260976046255
Niosaen Busuku		Slavonga	+260974139479
Kennedy Shantonola		Slavonga	+260967376481
Shaniallo Kenmny		Slavonga	+260977108013
Henry Haakulipa		Slavonga	+260978566508,
Harold Ndwunda		Slavonga	+260966566503
Maureen Katamfa		Katue Gorge	+260976874719
		Slavonga	+260972909177
		ZRA POBag 2001, Kariba	+260973415155
		Slavonga District Unit, Box 12	+260977441053
			+260971150066
		Box 99, Slavonga	+260977492532
		Kaleya	+260962527447
		Slavonga	+260950437054
			+260928053130
		Slavonga	+260953327799
		Slavonga	+260961698681
			+260961565932
		Box 144	+26096836510
			+260967175842
		Box 99	

Julius Kashinga		+260954368219
Mathew Ngoma		+2609729577
Peter Halenga		+260967545173
Paul Banda		+260962455523
Constatin Sinoya		+260967991237
Kelvin Muzunba		+260979457029
Christopher Kaanza		+260979457029
Charline Kazila		+260965281399
Christo Pher Nkhuwa		+260965749117
Teddy S Luknasia		+2609797973132
Kissie Chumli		+260977635797
Paluksea Hanalengwe		+260978345240
Austen Manisi		+260965315459
Oscar Siabbeta		+260968979201
Erick Phiri		+260967963829
Micho Public Meeting 04 October 2014		
Veronica Limba Mulundu	limbaveronica8@gmail.com	Box 100, Siavonga
Jessie Kawengo		+260977456353 +260962020925
Brenda Dumbula		Kariba Block 21, Micho
Given Mudenda Kamwanga		+260972090358 Siavonga
Iwando Acdeitor		+260973775585 Kariba, 140 School
Donald Mubiana		+260975140743 Box 10, Siavonga
Evanos Machaikaimiso		Kariba Basic School, Box 140 Siavonga
Julia Nyendwa		+260978475115 Kariba, Bl. 4
Lindah Mweewwa		+260975895263 Kariba, BL 1
Sinakambi Lilia		+26096660450 Lusupuko
Gladys Simuwakale		+260978667900 Block 1, Kariba
J. Kallo	TavemeZambezi@yahoo.com	Block 1, Kariba
Innocent Majepeni		+260979472853 Block 1, Kariba
Shakalaba Message		
Millicent Sitali		+260974222757 Box 140
Monde Mubiana		Kariba Basic School, Box 140 Siavonga
Naomi Banda		+260977667746 Kariba Basic School, Box 140 Siavonga
Rebecca Mwale		+260976597850, Kariba Basic School, Box 140 Siavonga
Farewell B		+260976161746 Kariba Basic School, Box 140 Siavonga
Angela Mweetwa		+2609761753215 Kariba Basic School, Box 140 Siavonga
Nolia Chilinda		+260979404195 Kariba Basic School, Box 140 Siavonga
Tarisa Manyepa		+260972018916 Kariba Basic School, Box 140 Siavonga
Ooyee Ntemewnde		+260975702523 Kariba Box 92
Taulu		+260971752185 Block 4, Kariba
Chrispine Cheleva Chisango		+260966218353 Kariba Box 92, Siavonga
Matilda Mwenya		+26097609014 Kariba Box 57, Siavonga
Beatrice Mumba		+260976766117 Kariba Basic School
Bertha Mwape		Box 140, Siavonga +26097784462

Peter Testio		Kariba, Siavonga	+260979782211
John Kalaba		Kariba, Siavonga	
Davis Mulwanda		PO Box 82, Siavonga	+260968216000
Westone Muliambya			
Rhoda Namutengu			+260964868401
Josephine Mphande			+260963515310
Dorothy Kasonde		Kariba Basic School, Box 57	+260977342919, +260965719389
Chain Chooka		The Apostles Church, Box 182	+260978932957
Patrick T		Box 140 Kariba	+260975633063
Jacob Muswala		The Apostles Church, Box 182	+260978342993
Charles H		The Apostles Church, Box 182	+260973865919
Musole Levy			+260977210352
Godfrey Mutelo		Box 90, Siavonga	+260979296299
Misheck Bwembu		Box 90, Siavonga	+260979557377
Isaac Simfukwe			+260972593335
Richard Munthali			+260978716297
Migie Kapalangwe			+260977112367
Bupe C. Mwenge			+260969199171
Evans Kalinda		Kariba Basic School	+260965983688
Allan S		Micho	+260966581789
Mike Mujoka		Kariba Basic School	
Langson P Hangwele		Box 140, Siavonga	+26097718787
Desai Mwinga		Kariba Basic School	
Worried Samende		Box 140, Siavonga	+260978067585
Musaka Captain		Kariba Basic School	
Musanikwa Alick		Box 140, Siavonga	+260977872173
Given Gondwe		Kariba Basic School	
Daiings Mwale		Box 140, Siavonga	+260975061839
Nyambe Musaimbe		Kariba Basic School	
Jeffy Njowe		Box 140, Siavonga	+260965316579
Chili Tanda			+2609624600288, +260954343779
Grace Mbasela		Kariba Basic School	+260976861791, +260969967643
Crena Zandala		Kariba Basic School	
Bravia Mwando		Box 140, Siavonga	+260977121860
Esther Muchimwa		Kariba Basic School	
Request Mweemba		Box 140, Siavonga	+260962579306
Franco Kayembe		Kariba Basic School	
Kacheba Nzala		Box 140, Siavonga	+260978811940
			+260969384490

	Derrick Mwando	Kariba Basic School Box 140, Siavonga	+260968197825
	Anistian Nyongola	Kariba Basic School Box 140, Siavonga	+260975039883
	Frida Kamba		+260953380422
	B Mwalubanda	Kariba Basic School Box 140, Siavonga	
	Simon Phiri	Box 82, Siavonga	+260965469998
	Tobias Mantuku	Box 82, Siavonga	+260977767676
	Chrisperinah Kaaze	Box 140, Siavonga	+260966836701
	Christabel Mupatayi	Box 140, Siavonga	+260973597876
	W Mulambya	Siavonga	
Siavonga Basic School Meeting 04 October 2014			
	James Banda	Siavonga	+260967970813
	N Munonso	Siavonga	+260979324915,
	Crayfon X	Siavonga	+2609624597117
	Shylock Chingala	Siavonga	+260978288793
	Sylvester Tembo	Siavonga	+260979121252
	Gurdford Sinkololwe	Siavonga	+260974393874
	Jelly Kapalanga	Kariba Basic School Box 140	+260973021720
	Fuarany M	Kariba Basic School Box 140	+260977588513
	Davile Muhongo	Box 82, Siavonga	+260955288259
	Solomon Check	Box 59, Siavonga	+260975090903,
	Nkanfu Mweetwa	Kariba Basic School Box 140	+260964687411
	Mwungora Mangizazi	Box 150, Mazabuka	+260978250173
	Christopher Chilala	Box 59, Siavonga	+260971290189
	Morris Kabilia	Box 50, Siavonga	+260978343829
	Rafael Lubafi		+260974294119,
	Robert	Box 27, Siavonga	+260963297586
	Given Noolie	Siavonga	+260964902695
	Kachiba Nzala	Siavonga	+260903384490
	Ben V B		+260979520393
	Wilfred Poho	Block 4, Box 92	+260969221305
	John Poho	Block 4, Box 92	+260962020826
	Western K	Box 145, Kariba	+26097422325
	Judy Michelio	Box 99, Siavonga	+260979520393
	Mosaen B	Micho	+260978566303,
	Howard Chilinda	Kariba Primary School, Box 140, Siavonga	+260971150117, +26096285757
228	Habanyama Progress	Kariba Primary School, Box 49, Siavonga	+260955959092, +260976060363
	Ngoma Esau	Micho	+260955656714 +260964726330,
	Haranvama Martin	Micho	+260978805967
	Barrett Simfulule	Micho Compound	+260977595740
	Robys	Micho	+260954414565
	Kenneth Hamatansa	Micho	+260972135229
	Mainza Friday	Micho	+260955386788
	Kabwe Chama	Micho	+260962019533

Boniface Muleng		Micho	+260979518958
Oscar N Kaimbo		Micho	+26096633811
Mubiana Emmanuel		Micho	+260977130282
Chisanga Patrick		Micho	+260978293520
Passiv Mutinta		Micho	+260971753256
Energy		Micho	+260975908708
Neto B		Micho	+260978171803
Mary Musole		Micho	+260966065031
Protash Motu		Micho	
Mangisoni Amagwienta		Micho	
Christopher Nyangu		Micho	
Banda Simon		Micho	+260973369309
Brainnel Musonda		Micho	+260973894095
Dickson Mabbeka			+260973528480
Sibaiene Kabenga			
Harrington Habanyama			+260961193540
Mbumwae Mbumwae			+260977456356
Godrick Sibanda		Slavonga	+260973893770
Teddy Kalvaye		Slavonga	+260971755304
Mulenga Musonda		Slavonga	+260961569561
Geoffry Siwakwi		Slavonga	+260973414870
Harrison Chomba		Slavonga	+260977108336
Ostian Monga		Slavonga	+260953331973,
Kaywala Mutelo		Slavonga	+260967474684
Maynard Hangoma		Slavonga	+260976100971
Kasozive Orderly		Kariba Compound	+260969463692
Kennedy Hamweene		Kariba Compound	+260969612507
Peter Cheelo		Kariba Compound	+260962697167
James Nkaya		Kariba	+260968196993,
Grorius Sibalwa		Kariba Compound	+26092577082
Noria Kasienka		Kariba Compound	+260979349763,
Agness Hamayobe		Kariba Compound	+260963064276
Iness Jalincha		Kariba Compound	+260977634611
Joyce Hamutake		Kariba Compound	+260962019514
Selisho Chilonge		Kariba	+260974555258
Mary Mandolo		Kariba	+26096529250
Loneess Mulabya		Kariba	+260971567814
Tembo Laines		Kariba	
Foudes Banda		Kariba	+260974966919
Juliet Mizumara		Kariba	+260962527350
Rosemary Longwe		Kariba	+260976248060
John Mvula		Kariba	+26095420911
Elizabeth Ihambao		New Apostolic Church	+260950203222,
Ioesley B		PO Box, 27	+260963831289
Deaphister Mutale		Slavonga	+260978218941
Mildred Kapwaya		Kariba Basic School	+260978300310
Susan Inambao		Box 140	
Chrispin Chisbinia		Kariba Basic School	+260979392520,
Judith Kambeni		Box 140	+260979654102
		Kariba Basic School	+260973632757

	Mirriam Habanya	New Apostolic Church PO Box, 27	+260971748959
	Mirriam Ngonya		+260962104107
	Judith Maipenzi	New Apostolic Church PO Box, 27	+260979856482
	Brendah Mwanza		+260965315215
	Charles		+260978808159
	N. Mbangweta	Box 65, Siavonga	+260979398872
	L. Hakabale		+260965280110
	Raphael U		+26097843329
	Tobias Bande	Kariba Basic School Box 140	+260966795597
	Watson Kakwenya		+260978607037
	Neto Bbalangwe	Micho	+26097171803
	Peter Kafupi		+260977682901
	Pamela Chanda		+260972456219
	Phides Hamatobe	Micho, Kariba Block 4	+260975270087
	Irene Lubasi	Block 2, Micho	+260978343329
	Smart Hamutelo	Micho	+260962020925
	Paul Mofu		+260975248411
	Media Habantama	New Apostolic Church PO Box, 27	+260961889684
	Mirriam Maipenzi	New Apostolic Church PO Box, 27	+260975430062
	Demmy Siamasandu	New Apostolic Church PO Box, 27	+260962664024
	Royd Ihatakwati	SDA Siavonga	+260975430004
	Victoria M	Catholoic Church, Box 82, Siavonga	+260977512243
	Done Kasonde	Micho	+260963382163
	Charity Nyangu	Catholoic Church, Box 82, Siavonga	+260978585363
	Hagai Zandu	Catholoic Church, Box 82, Siavonga	+2609789442853
	John Bulongo	Micho	+260962020925
	Mugabe Mandabalinma	Micho	+260966673811
	Oscar Kaimbo	Micho	+260975912801
	Justin Mushtu	Micho	+260961050226
	Elias Makumba	Micho	+260975248411
	Justin Mofu	Micho	+260975248411
	Protasto Mofu	Micho	+260975248411
Provincial Meeting (Choma Council) 06 October 2014			
Provincial Planning Office	Mwila Chakala	mwila.chakala@hotmail.com	Box 630335, Choma +260961168484
Provincial Planning Office	Namobe Choolwe	luckynamoobe@gmail.com	Box 630335, Choma +260976208703, Lusaka
ERM	Felix Chicha		+260974074384
Siavonga District Council	Grace Mwanza	chiedza.mwanza@gmail.com	P. O Box 12, Siavonga +263979174764
Dept of Water, Mines & Energy 07 October 2014			
Department of Water Affairs	Hastings Chibuye	katubiwa@gmail.com	Box 50288, Lusaka +260966455774
Department of Water Affairs	Flora Sikamundenga Simumba	flasika@yahoo.com	Box 30530, Lusaka +260978616630
Department of Water Affairs	Simon Kangumba	kanguma@yahoo.com	Box 50288, Lusaka +260977623398
Department of Water Affairs	Albert Chomba	chombab08027_ac@gmail.com	Box 50288, Lusaka +260977825940
Department of Water Affairs	Oscar Silembo	oscarsilembo@yahoo.com	Box 30550, Lusaka +260955863089
Department of Water Affairs	Ngoma Frank Ntiorasi	ngoma63@gmail.com	Box 30530, Lusaka +260966454811
Ministry of Mines, Energy & Water Development	Arnold Simwawa	arnold.simwawa206@gmail.com	PO Box 51254, Ridgeway, Lusaka +260975752993

Authority	Contact	Email	Postal Address	Tel (w)	Mobile	Fax
National Level						
Ministry of Local Government, Rural & Urban Development						+2634703715
Zimbabwe National Water Authority	eprzim@eprzim.co.zw	P Bag 7706 Causeway, Harare, Zimbabwe	+2634791287			
Zimbabwe Energy Regulatory Authority (ZERA)	pr@zirnwa.co.zw	P O Box CY617 Causeway, Harare	+2634797610			+2634797610
Ministry of Tourism & Hospitality Industry	admin@zera.co.zw	P O Box CY308 Causeway Harare	+263780010			+263250696
Zimbabwe Parks and Wildlife Management Authority	commercial@zimparks.co.zw	Box CY1718 Causeway Harare	+263(04)7270447759 391/770897			
Ministry of Energy and Power Development		PO Box CY140, Causeway, Harare	2634707624-8			
Ministry of Transport Infrastructural Development	energy@energy.gov.zw power@energy.gov.zw petroleum@energy.gov.zw recon@energy.gov.zw	Private Bag 7758 Causeway Harare Zimbabwe	+2634733095-9			+2634797956
Ministry of Environment, Water And Climate	nkudeng@transcom.gov.zw	Box CY 595 Causeway Harare	+2634700999			
Provincial Level						
Ministry of Agriculture, Mechanisation and Irrigation Development	dumienyoni@yahoo.com	Bulawayo	00260 09 884546			
Department of District Development Fund	P.A.E.O : Mr DM Nyoni Director General: Mr JK Jonga Mayor - Bernard Manyeneni	Jongajk@ddf.gov.zw	Private Bag 7756,Causeway, Zimbabwe	799643/9 796120/9 706301/5 +263478181016 +2634752 577 9		
District Level						
Ivor Cockcroft	District Commissioner					
Lake Kariba Recreational Park	National Park District	P. Bag 2002, Kariba	2630612337,			
Zimbabwe Institute of Regional and Urban Planners	Town Planner Secretary	P O Box CY287	0772491702			
Environmental Management Agency (EMA)	ema@ema.co.zw	Causeway, Harare P.O Box 385, Causeway Harare	(04)7056713 / 7056612			
General I&APs						
Patsaka Trust	Mary Jack	H16 B Lusaka Blocks	0778963664			
Kariba Basic School	Thelma T Kapero	tatendaikops@gmail.com				
Maineland	Mike Mujoka	P O Box 140 Siavonga				
Patsaka Community Radio	Mr. R Collett	P O Box 65 Kariba Zimbabwe				
ZPC Kariba Geo and Env Science	Mr Paul Mupukuta	12 Jacaranda Close P O Box 110 Kariba	+263612845 0612856			
	Shepperd Musariri	204/10 Shabani Kariba	0774359143			
	Mt. S Nyanuro	112c Isoka Blocks Mahonbekombe Kariba	073 5582792 0773486186			
Patsaka Trust	Miss Prisca Fadzai Matyenga N. Chiyangw	matiyengaf@gmail.com				
	Mhlanga Amiao	mhlangaa53@gmail.com	0776242676 0738617182			
District Administrators Office - Zimbabwe 26 September 2014						
		District Administrator, P. O. Box 96,	+263612401, +26372369887			

Min. of Local Govt	Tomu Tariro	tomutari82@gmail.com	District Administrator, P. O. Box 96, Kariba	+263773773
ZRA	Mwaka Simbule	simbule@zaraho.org.zm	Box 30233, Lusaka	378487 +263977861818
ZRA	Elizabeth Karonga	karonga@zaraho.org.zm	Box 30233, Lusaka	+263977318735
ERM	Susan Chilides			
ERM	Oliver Manjengwa			
ERM	Janet Mkhabela			
National Parks and Wildlife - Zimbabwe 26 September 2014				
ZRA	Ms Beatrice Zuobara	zbissoz@gmail.com	Private Bag 2002, Kariba	0612640, +263772388753
Mavis Nawa				
felix chisira k				+263974074384
Janet Mkhabela				+263772958671
Oliver Manjengwa				+263712610388
Susan Chilides				
Municipality, Kariba, Zimbabwe 26 September 2014				
Richard Kamhoti	kamhoti@karibatun.org.zw	Box 130, kariba	0772238 588	
felix chisira k				
Oliver Manjengwa				
Janet Mkhabela				
Zimbabwe Officials, Kariba Town 02 October 2014				
Zimbabwe Prison And Correctional Services	Bigg Mikelili	Box 140 Kariba	+263773523722	
District Development Fund	Stephen Dandawa	Box 96 Kariba	+263773299841	
Civil Service Commission	Gunungu G.	Box 240 Kariba	+263773523799	
Registrar General	Pauline Karichi	Box 90 Kariba	+263772660402	
Labour	C Jayiwa	Box 7 Kariba	+263772660752	
Ministry of Small and Medium Enterprises and Cooperative Development	Peter Janu	Teabox Complex Nyamhunga Kariba	+263774725271	
Minister of Public Service, Labour and Social Welfare	Tinotenda Muganhiru	1366 Nyamhunga 3	+263773379849	
Civil Service Commission - Pensions Agency	Sharayi Musonah	Stand 3269 Teebox Complex	+263773136128	
University of Zimbabwe	Elmon Dilromo	Nyamhunga, Kariba		
Woman Affairs Gender & Community Dept	Patricia Machivewyka	Box 48, Kariba	+263772358253	
Education	Thomson Fly	Public Works Andara Harbour, Kariba	+263772977799	
ZPC	Sylvester Mushininga	Box 210, Kariba	+263773920590	
ZPC	K Samusodza	2PC Kariba	+263773232582	
Local	Tariku Tomu	DAs Office, PO Box 96, Kariba	+263773630306	
CIMED	Laurence Chaperapata	DAs Office, PO Box 96, Kariba	+263773378487	
Zimbabwe Power Company	Emmanuel Manyau	Box 98, Kariba	+263775515262	
	manyau@2pkcariba.co.za	1 Stable Drive, Kariba	+263773914665	
Zimbabwe Traders Public Meeting 02 October 2014				
Venezia Nkossa	Margaret Chilimani		+263777588036	
Julyet Nlukwesha			+263773921282	
Judith Simbi			+263778470859	
Faides Nhanda			+263779209094	
Godfrey Nhikede			+263773553334	
Rosemary Zulu			+263777763106	
Enia Katanganda			+2637739261400	
Cecilia Mbulindi			+263772886630	
Suvai Tsiro			+26378295821	
Estar Ndaba			+263774460624	
Febi Bluwān			+26377291698	
Nickstue Mavhunga			+263773921348	
Daina Balamarja			+26377916238	
Oliver Manjengwa	olvermanjengwa@gmail.com	1 Fairburb Rd, Mt Pleasant, Kariba	+263772958671	
Youth	Bratu M	Kariba	+263772987451	

	Goddkholis Chambari	21/23 Pearson H/H, Kariba	+263779734530
	Gift Mupunga	D34/L Shabani M/J, Kariba	+263774834471
	Noel Chivantiwa	D49H Shebani Mkude	+263738617182
	Robert Douglas Mbafama	Shaban 204/5, Kariba	+263779679991
	Petros Kanyuchi	Shaban 204/5, Kariba	+263779679991
	Chimwaya C.	Shaban D13C	+263772977014
	Richard Chabikwira	ATA Africa, Kariba	+263778141037
	JPC	Box 11, Kariba	+263773691905
	Mahombekombe Primary		
One to One Traders Meeting 02 October 2014			
Patsaka Trust	P. Fadza Matiyenga	matiyengapf@gmail.com	+263776242676
Patsaka Trust	Tatend T Kapere	taiendaikops@gmail.com	+263778963664
	Etwin P Tembo	etwintemb99@gmail.com	+263774493349,
			+263773007096
	Tapiwu Mubanga		
	Tapiwa Majananzasa	1074 Nyamhunga	+263775319412
	Isaac Siamarabi	R4/74 Umtali	+263778491264
		Blocks, Mahombekombe	+263777476355
	Roy Maziyanhanga	1182 Nyambungwa "2" Kariba	+263783892545, +263
		776109587	
	Mike Chamonxongo	59 Kariba	+263778262760
	Tapiwa Mukanga	1074 Nyamhunga Gaza 2, Kariba	+263775319412,
		6 Aerial Hill Drive, Kariba	+263775319412
	Godfrey Arikantsu	6 Aerial Hill Drive, Kariba	+263775068046
	Masocha Moses	Mahombekombe	+263715993732,
			+263778585558
N. Archfield		Mahombekombe 36 Shabarn	+26377921948
	Karambamu Ronald	1236 Nyamhunga	+263735377171
	Takemore Munakariba	OMS5 Local Board, Mahombekombe	+263777653017
233	Nice Phiri	D36 Shabani	+263773996466
		Mahombekombe	
	William Chidaksa	1343 Nyamhunga	+263774463806
	Cleopas Harry		+263777177593
	Daniel Wasakara	R35 <petaluke, Kariba	
	Obey Chakuvinga	96719 Chabanie Mahombekombe	+263771258320
	Joshua Mukwesha	132cleoka, Mahombekombe	+263773072632
	Tavarirusa Alfred	Box 11 Gawa, Kariba	+263773921389
	Norman Nyasochi	R15 Room 4, Ndola Blocks, Kariba	+26377323260
	Marina Chigibura	D52/4 Imprisit, Kariba	+263775601392
	Gift Mafinyaya	870 Nyamhunga, Kariba	+2637783173232
	Elliot Tembo	D38/2, Imprisit	+263783892427,
			+263737937619
	Stanley Nyanduro	112C Isoka Blocks, Kariba	+263773486186,
			+263712046799
	Sheperdin Musaniri	204/10 Shabani, Kariba	+263735582792
	Samsson Kashiri	Box 20, Kariba	+263773153626
	Marshall Ian Chisiga	A1-G Zesa Security Campe, Kariba	+263776971632
	Memory Ndambakuwa	D47 A Shabbie, Mahombekombe	+263782054044
	Tatenda Manatsa	S3 Beira Mahombekombe, Kariba	+263713841447
	Willibert Tazvivinga	A8B Africa Blocks, Kariba	+263737326543
	Zuberl Chrispen	NIA12 Local Board	+263773923718
	Mukandi Joseph		
	Limno Odrus		
	Artwell Kaséke	MicaPoint	+2637798333778
	Tawanda Mapfundombatsva	R25/6, Mahombekombe	+263776742954
	Aaron Kusakadza	R26/6 Blantyre, Mahombekombe	+263773152663
	Tracey Ndoro	Stand no. 1186, Mahombekombe	+263773010719
	Sindywell Matiyonga	D14A Shabani, Mahombekombe	+263779469924

Phineas Edward Daiman		3126 Batonga, Kariba	+263778963966
Justin Wakeehmu		R24, Kariba	+263773802680
Givemore Chifana		D12C Shabani, Kariba	+263777855277
Paul Mupukuta	mupukutapaul@gmail.com patsakatrust@gmail.com	/12 Jacaranda Heights, Box 110, Kariba	+263774359143
Lucia Kanjenze		11A Isoka Mahombekombe, Kariba	+263776549833, +263713553741
Memory Chigaro		11A, Isonka Mahombekombe, Kariba	+263777476471
Gertrude Lutope		H23/3 Fortjamson, Kariba	+263714112796
Ellen Tsatsi		H46/3 Fortjamson, Kariba	+263771486386
Mary Jack		Lusaka Blocks, Mahombekombe, Kariba	H16B +263773997339
Ronald Karambamcheo		1236 Nyamhunga, Kariba	+263735377171
Tapiua Mukanzaca		1074 Nyawamhunga, Kariba	+263775840423
Ernest Abraham		H27A FortJamson, Kariba	+263783664147

Annex B: 14

Record of Environmental and Social Impact Assessment -Engagements

Site Notices

KARIBA DAM REHABILITATION WORKS

Invitation to Public Meeting

The Zambezi River Authority (ZRA) is planning to rehabilitate some of the existing Kariba Dam infrastructure.

You are invited to attend a public meeting where the findings of the **Environmental and Social Impact assessment (ESIA)** Study will be discussed.

The details of the meeting are as follows:

Venue:	
Date:	
Time:	





Meeting Request Letter

4 March 2015

2nd Floor
Great Westerford
240 Main Road, Rondebosch
7700, Cape Town, South Africa

Dear District Commissioner,

***Re: Notice of the Draft Environmental and Social Impact Assessment (ESIA)
Disclosure for the Proposed Kariba Dam Rehabilitation Works***

As you will recall, the Zambezi River Authority (ZRA) is proposing the rehabilitation of some of the support infrastructure of the Kariba Dam; namely the plunge pool, spillway (including the installation of an emergency spillway gate).

The Prospectus and Scoping Report for the Project (including the Terms of Reference) were approved by EMA and ZEMA on 13th February 2015.

Subsequently, ERM, the independent environmental consultants appointed by the ZRA to undertake the ESIA, have completed the draft ESIA; which includes specialists' studies and impact assessments.

Prior to submitting the draft ESIA to EMA and ZEMA, ERM (and its in-country partners) would like to present the findings of the ESIA to the Project stakeholders. The objectives of the draft ESIA engagement are to:

- Present the key impacts identified in the draft ESIA report, and proposed mitigation;
- Involve stakeholders in assessing the efficacy and appropriateness of the proposed mitigation measures;
- Capture stakeholder concerns and opinions on the identified impacts; and
- Identify revisions or additions to the draft ESIA report where necessary.

You have been identified as an important stakeholder of the proposed Project; as such we would like to schedule a meeting with you on the 6th March 2015 at 14:30pm at Lake Kariba Inns, to present to you the findings of the ESIA.

Should you have any queries please do not hesitate to contact Ms. Janet Mkhabela via email janet.mkhabela@erm.com; or Mr. Felix Chisha (in Zambia) via mobile: +260-974-074 384 / +260-963 258 535; or Mr. Oliver Manjengwa (in Zimbabwe) via mobile +263772958671.

We look forward to meeting with you.

Yours Sincerely,



Ms. Janet Mkhabela
Social Specialist

Registered Company Address
Environmental Resources Management
Southern Africa (Pty) Ltd
1st Floor, Building 32
The Woodlands Office Park
Woodlands Drive, Woodmead
2148, Johannesburg, South Africa

Company Registration Number
2003/001404/07

Directors
Bruce Walker (Managing)
Grant Bassingthwaigte
Jeremy Soboil
John Simonson (UK)
Tania Swanepoel

**A member of the Environmental
Resources Management Group**

4 March 2015

Dear District Administrator,

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Disclosure for the Proposed Kariba Dam Rehabilitation Works***

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- Present the key impacts identified in the draft ESIA report, and proposed mitigation;
- Involve stakeholders in assessing the efficacy and appropriateness of the proposed mitigation measures;
- Capture stakeholder concerns and opinions on the identified impacts; and
- Identify revisions or additions to the draft ESIA report where necessary.

You have been identified as an important stakeholder of the proposed Project; as such we would like to schedule a meeting with you and the District Heads of Departments on the 6th or 9th March 2015 at 10:00am at, to present to you the findings of the ESIA.

Should you have any queries please do not hesitate to contact Ms. Janet Mkhabela via email janet.mkhabela@erm.com; or Mr. Felix Chisha (in Zambia) via mobile: +260-974-074 384 / +260-963 258 535; or Mr. Oliver Manjengwa (in Zimbabwe) via mobile +263772958671.

We look forward to meeting with you.

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Ms. Janet Mkhabela
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2nd Floor
Great Westerford
240 Main Road, Rondebosch
7700, Cape Town, South Africa

Postnet Suite 90
Private Bag X12
Tokai, 7966
Cape Town, South Africa

Tel: +27 (0) 21 681 5400
Fax: +27 (0) 21 686 0736
www.erm.com



Registered Company Address
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The Woodlands Office Park
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2148, Johannesburg, South Africa

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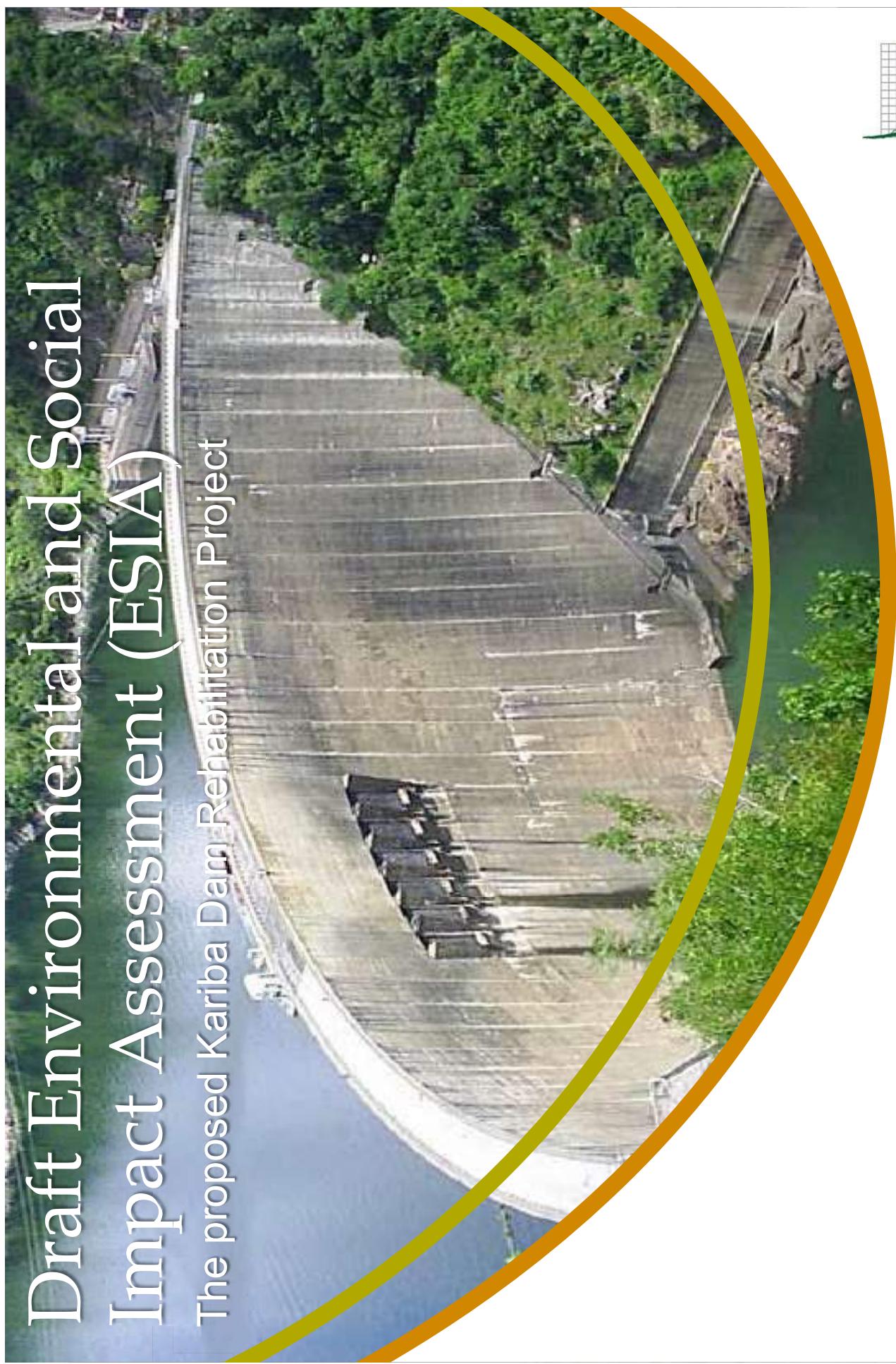
Directors
Bruce Walker (Managing)
Grant Bassingthwaite
Jeremy Sobol
John Simonson (UK)
Tania Swanepoel

**A member of the Environmental
Resources Management Group**

PowerPoint Presentation

Draft Environmental and Social Impact Assessment (ESIA)

The proposed Kariba Dam Rehabilitation Project



Role Players

Zambezi River Authority (ZRA)

- Parastatal
- Management and Utilisation of the Zambezi River water resources
- Project Proponent



Environmental Resources Management (ERM)

- Independent Environmental Consultants
- Black Crystal – partner in Zimbabwe
- Felix Chisha – partner in Zambia

Purpose of the Meeting

- To present the **key impacts identified** in the draft ESI A report and proposed mitigation.
- To **involve you** as a stakeholder in assessing the efficacy and appropriateness of the proposed mitigation measures.
- **Capture** your concerns and opinions on the identified impacts.
- Identify **revisions or additions** to the draft ESI A report where necessary.

Structure of Presentation

Project Description

- Plunge Pool Reshaping
- Spillway Refurbishment

Impact Assessment and Mitigation

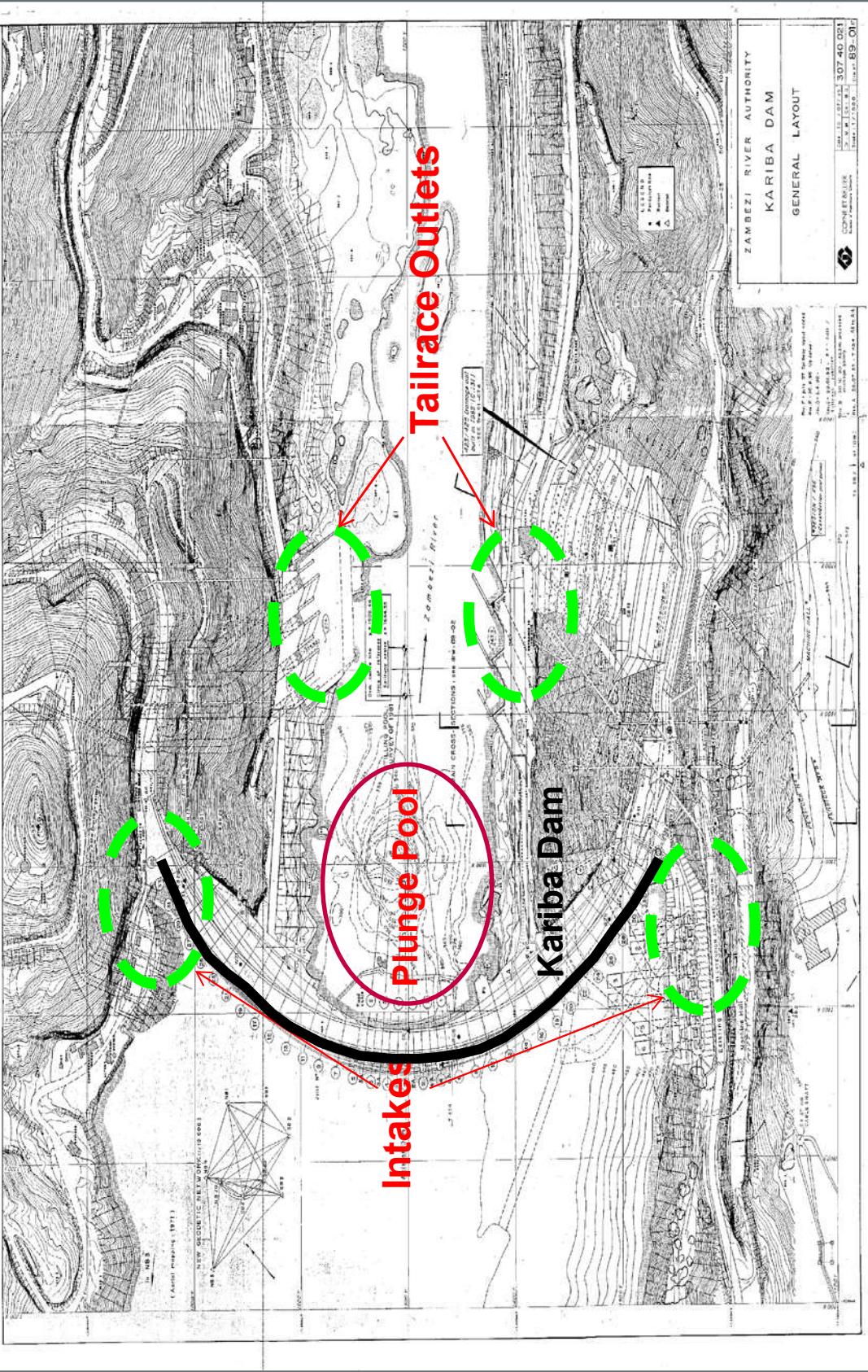
- Scoping process
- Impacts
- Mitigation

Way Forward

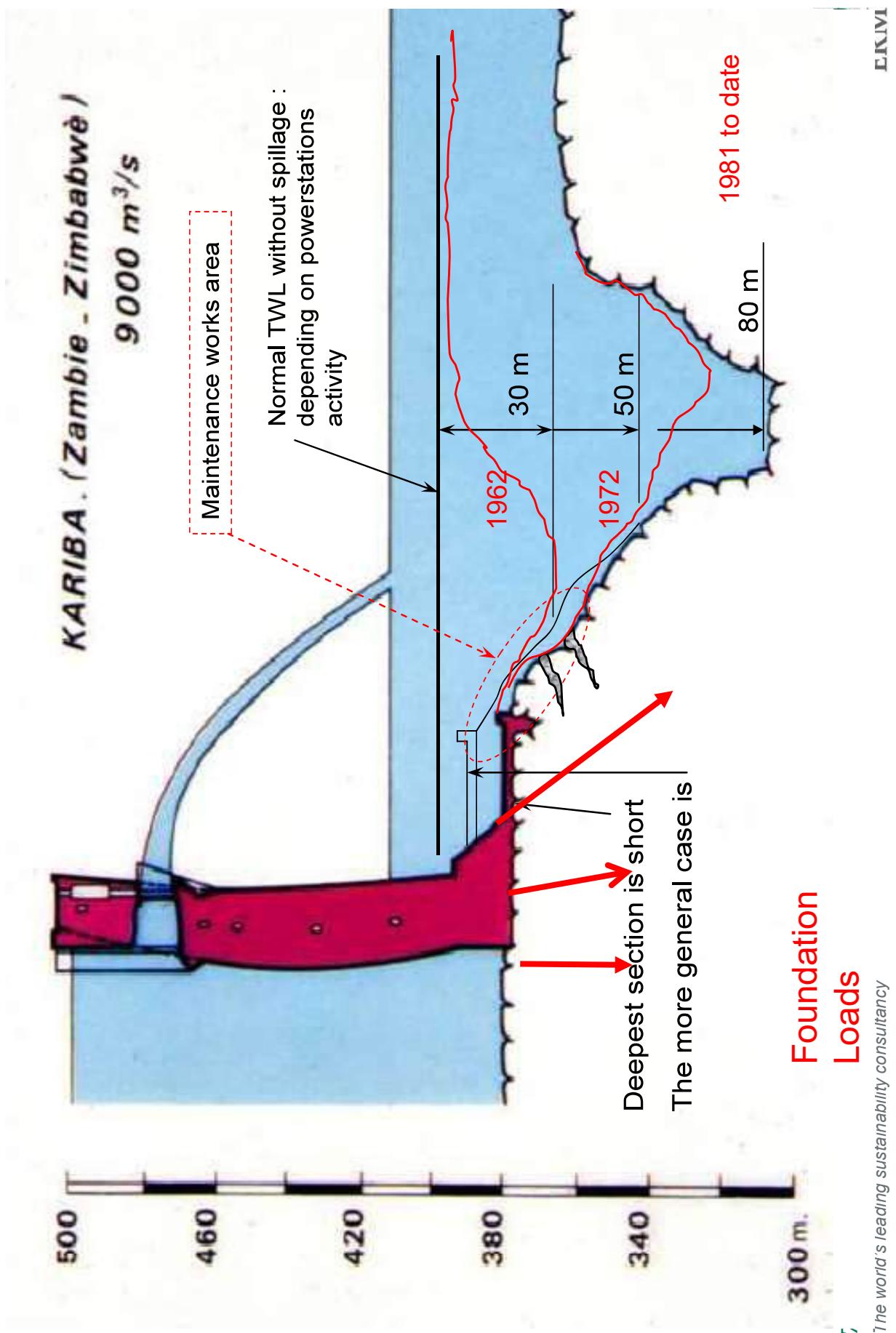
Plunge Pool Reshaping



General Layout of Dam & Power Stations



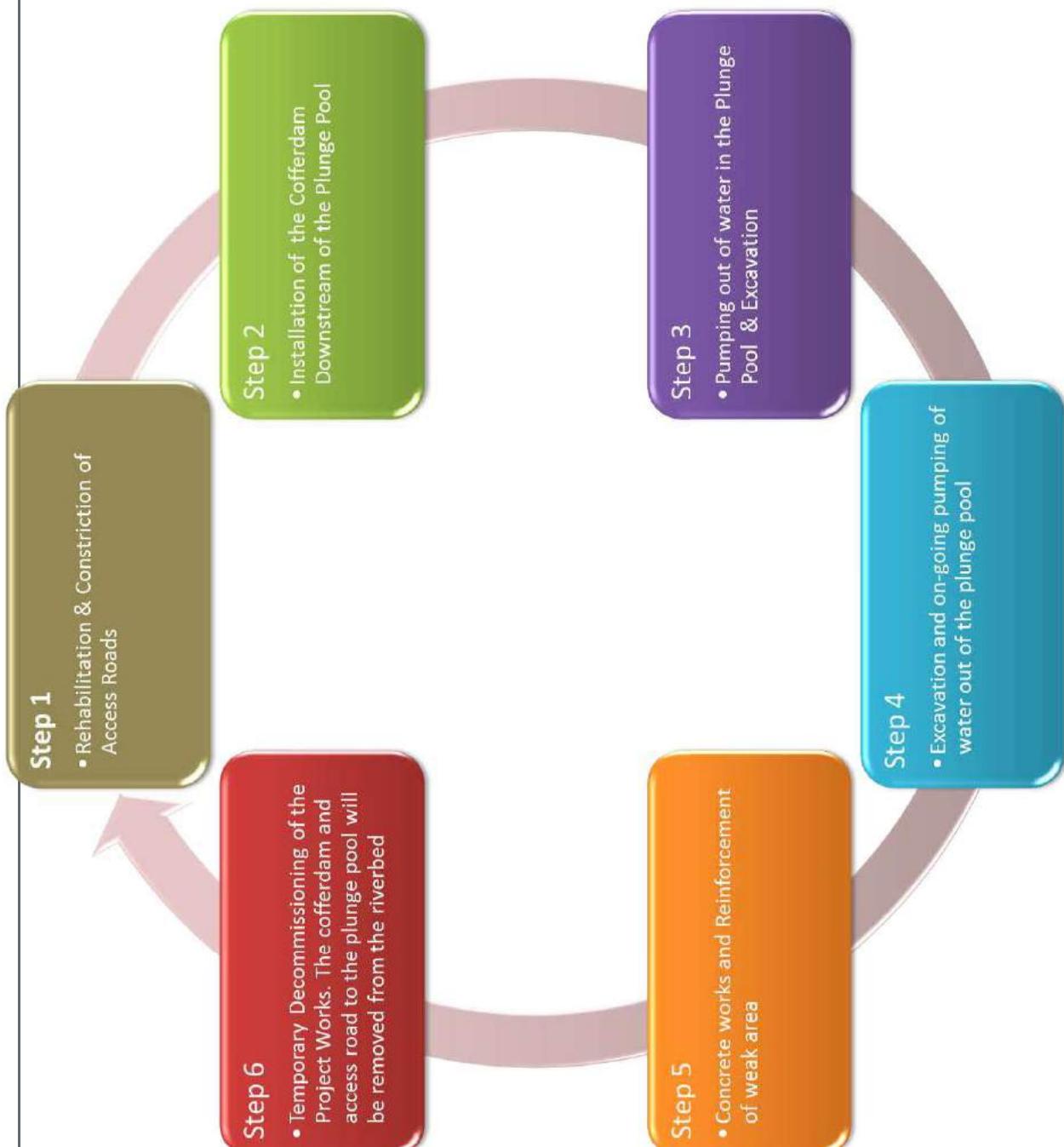
Project Description: Plunge Pool Reshaping



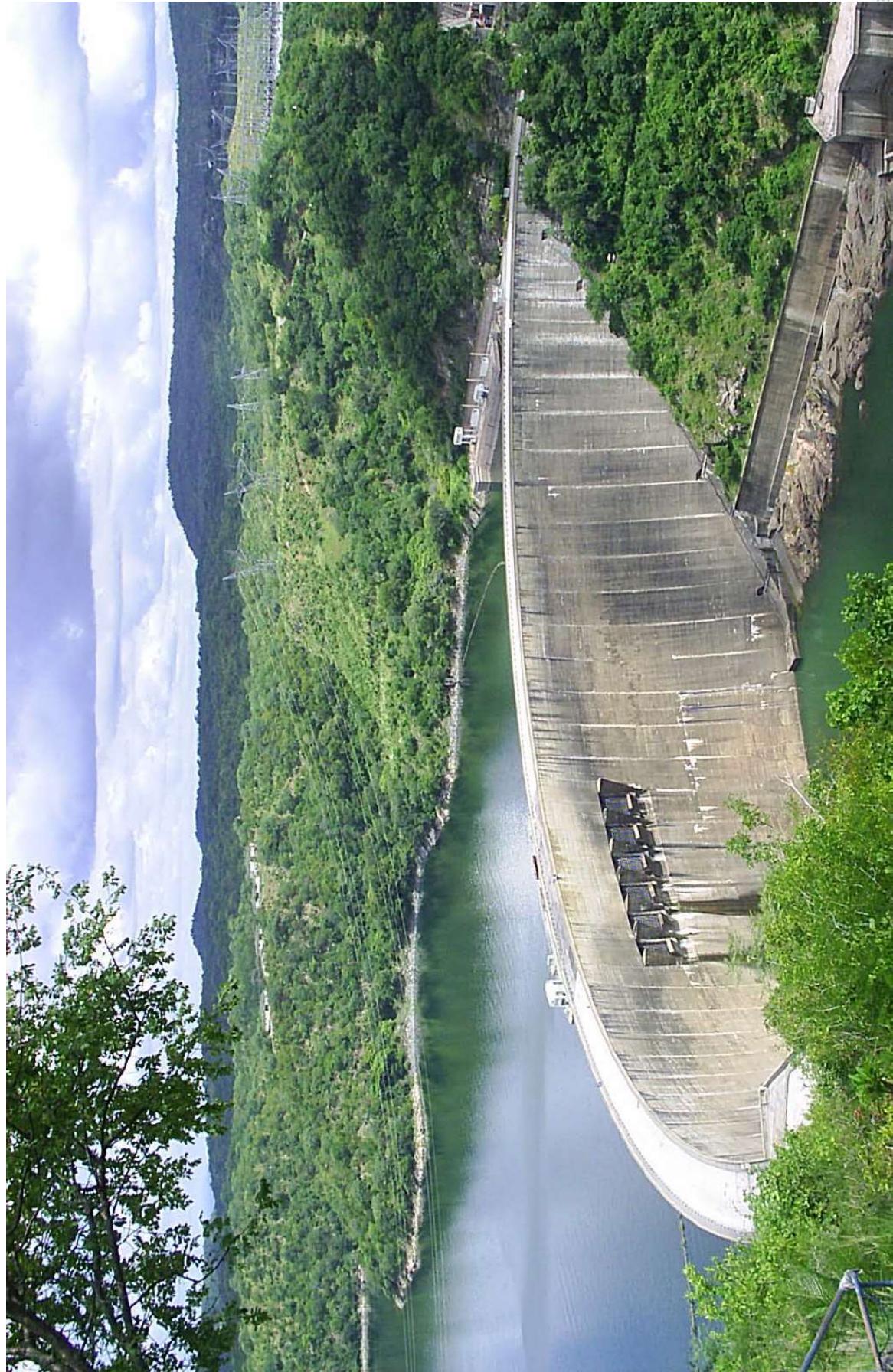
Project Description: Reshaped Geometry



Proposed Plunge Pool Reshaping Works



Spillway Refurbishment



10

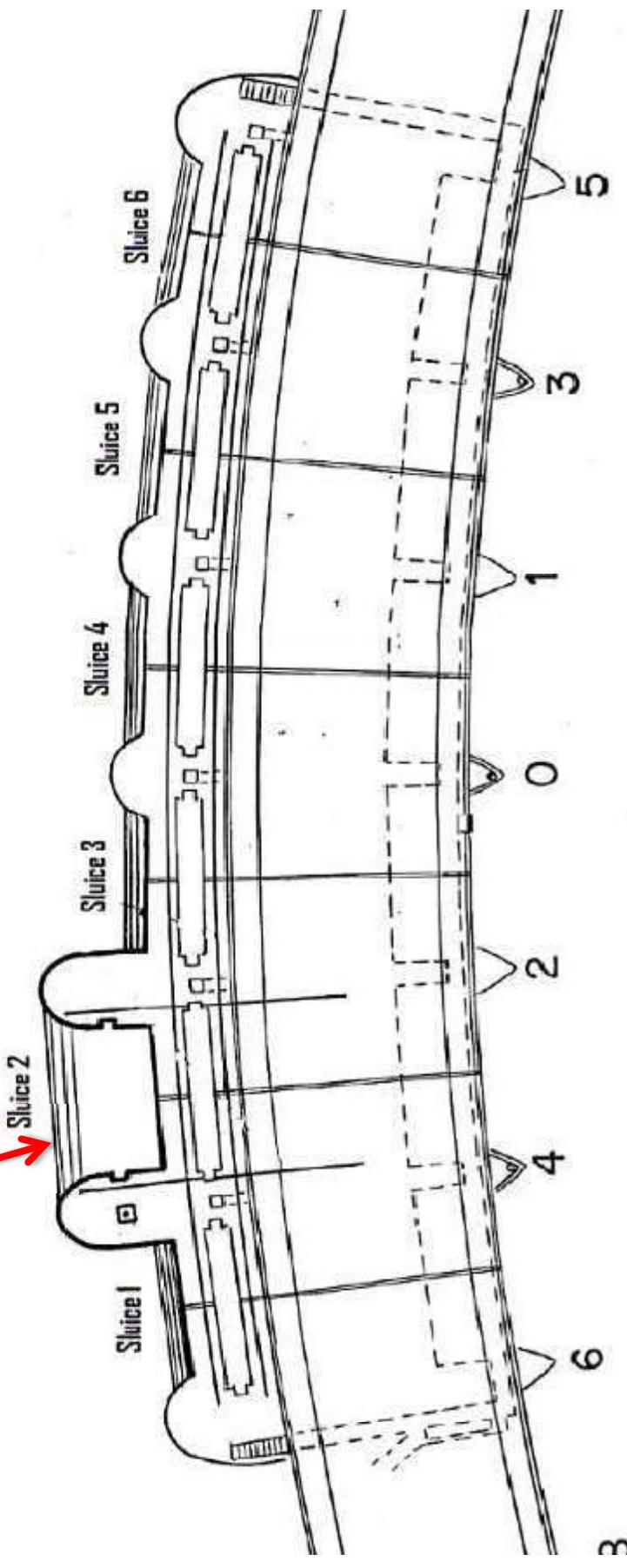
The world's leading sustainability consultancy

Spillway Features

PLAN OF SPILLWAY

Scale 1/500

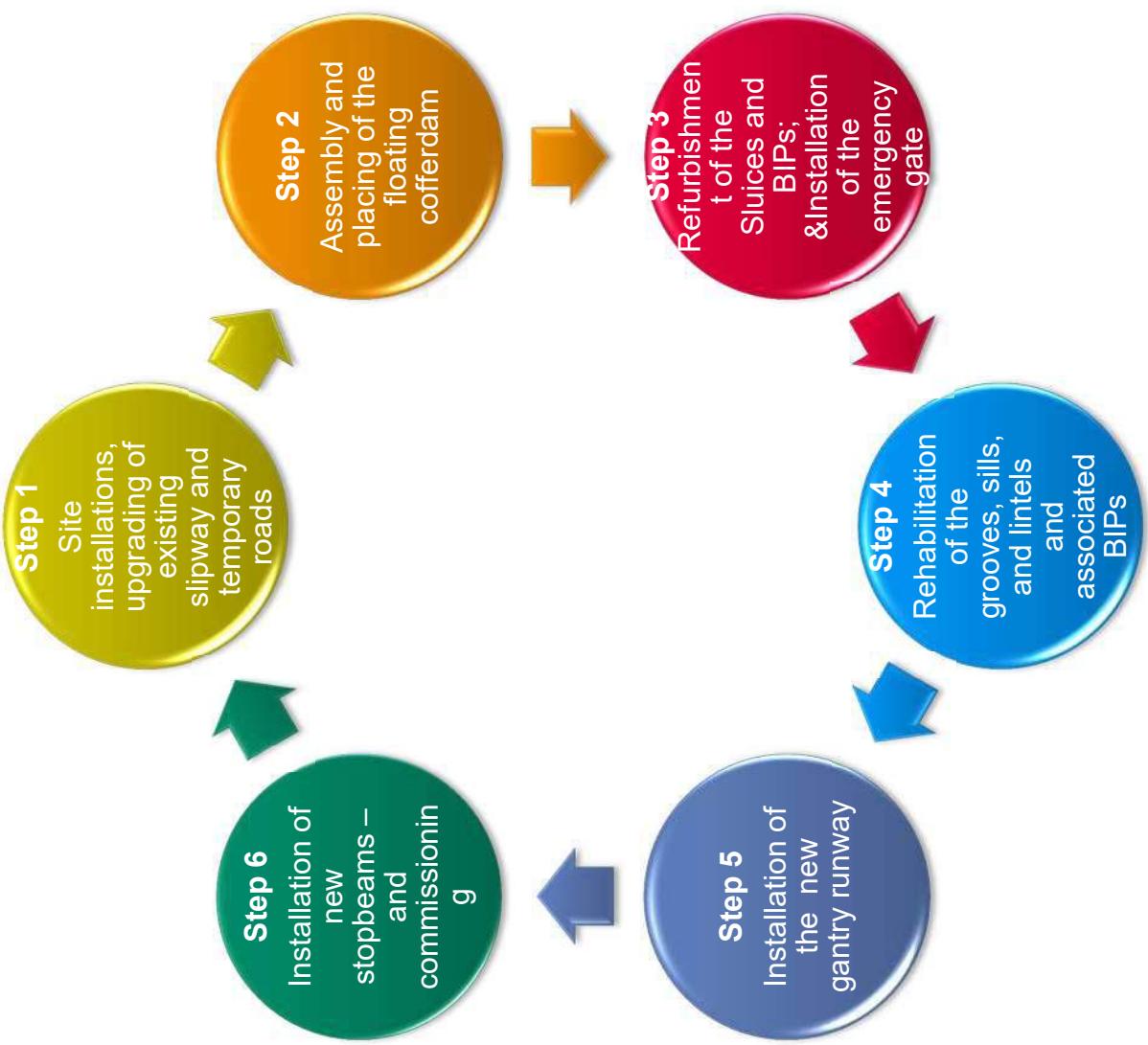
Originally designed for
to transport sediments



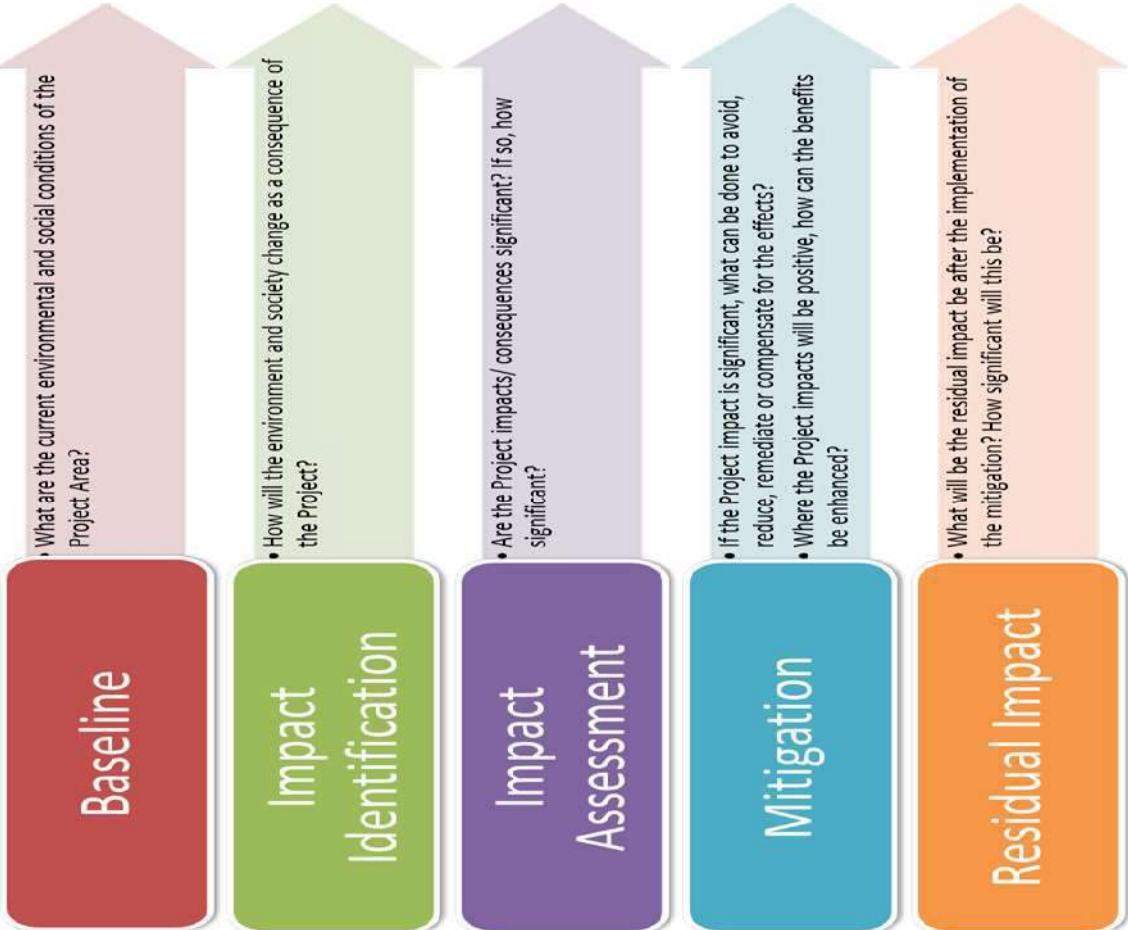
Project Description: Spillway Refurbishment

- **Upgrading of slipway** for assembly and launching of floating cofferdam
- Design, fabrication and positioning of **floating cofferdam** for upstream sluice closure
- Replacement of secondary concrete and **built-in-parts** in stop-beam slots (in the dry) ⇒ requires cofferdam
- Design, fabrication and supply of **emergency gate**
- Modification of **crest civil works** to support new gantry
- Design, fabrication and supply of **new gantry**

Sequence of Planned Spillway Works



Draft Impact Assessment



Impact Assessment Methodology

Impact assessment characteristics include:
Type, Extent, Duration, Scale and Frequency
together these provide guidance to determining an impact magnitude

		Sensitivity/Vulnerability/Importance of Resource/Receptor		
		Low	Medium	High
Negligible		Negligible	Negligible	Negligible
Small		Negligible	Minor	Moderate
Medium		Minor	Moderate	Major
Large		Moderate	Major	Major
Positive		Positive Impact		

Physical Environmental Impacts (1)

Project Activity	Impact Assessed
<ul style="list-style-type: none"> • Spillage / non-spillage periods • Dewatering of the plunge pool • Crossing of smaller non-perennial systems associated with linear infrastructure 	Impacts on Hydrology
<ul style="list-style-type: none"> • Dewatering of the plunge pool • Installation of the plunge pool cofferdam • Dredging of the slipway • Blasting activities 	Impacts on Water quality
<ul style="list-style-type: none"> • General construction activities and use of associated access roads 	Impacts on Erosion and Sedimentation
<ul style="list-style-type: none"> • Construction and use of access roads • Construction of the downstream cofferdam • Dredging of the slipway site • Sediment laden water discharged from the plunge pool • Blasting and rock removal activities 	

Physical Environmental Impacts (2)

Impact Assessed	Impact Significance (Pre-mitigation)	Impact Significance (Post-mitigation)
Impacts on Hydrology	MAJOR Negative Impact	NEGIGIBLE Negative Impact
Impacts on Water quality	MODERATE Negative Impact	MINOR Negative Impact
Impacts on Erosion and Sedimentation	MINOR Negative Impact	NEGIGIBLE Negative Impact

Physical Environmental Impacts (3)

Impact Assessed	Mitigation/Management
Impacts on Hydrology	<ul style="list-style-type: none"> Downstream flows should be maintained Downstream flows should not be less than the maintenance low flow of 440m³/s Watercourse crossing should aim to maintain natural channel processes
Impacts on Water quality	<ul style="list-style-type: none"> No dumping of any waste within watercourses The dewatering systems of the plunge pool – should trap sediments Develop and implement detailed spillage and contamination plan Storm-water and surface runoff management systems Water quality monitoring on a weekly basis
Impacts on Erosion and Sedimentation	<ul style="list-style-type: none"> Develop and implement erosion and silt control mechanisms within the watercourse Erect silt barriers along all affected drainage lines All berms (barriers), cofferdams or other isolation structures should be of non-erodible materials

Biophysical Impacts (1)

Project Activity	Impact Assessed
Dredging, blasting, dewatering, etc.	Impacts on the Aquatic Environment
Clearance of vegetation for the construction and / or widening of roads, laydown areas, construction camp, waste rock dump sites, etc..)	Impacts on Terrestrial Habitat
Increased noise levels, presence of people, night time lighting, etc..	Impacts on Terrestrial Species of Conservation Concern
Unplanned and / or non-routine project activities (such as spillages or failure of cofferdam)	Impacts on Protected Areas

Biophysical Impacts (2)

Impact Assessed	Impact Significance (Pre-mitigation)	Impact Significance (Post-mitigation)
Impacts on the Aquatic Environment	Moderate Negative Impact	Minor Negative Impact
Impacts on Terrestrial Habitat	Negligible Negative Impact	Negligible Negative Impact
Impacts on Terrestrial Species of Conservation Concern	Minor Negative Impact	Minor Negative Impact
Impacts on Protected Areas	Moderate Negative Impact	Negligible Negative Impact

Biophysical Impacts (3)

Impact Assessed	Mitigation/ Management
Impacts on the Aquatic Environment	<ul style="list-style-type: none"> Blasting induced over pressure not to exceed a 100 kPa and peak particle velocity should not exceed 13mm/s Establish a biological monitoring system before, during, and after rehabilitation
Impacts on Terrestrial Habitat	<ul style="list-style-type: none"> Appointment of a qualified and competent Environmental Officer Ecological awareness will be incorporated into labour force induction programmes Avoid footprint creep
Impacts on Terrestrial Species of Conservation Concern	<ul style="list-style-type: none"> Develop and implement an Animal Rescue Plan Collaborate with the local wildlife authorities to manage the impacts on wildlife
Impacts on Protected Areas	<ul style="list-style-type: none"> Proactive engagement and collaboration with wildlife conservation authorities

Economic and Livelihood Impacts (1)

Impact Assessed	Impact Significance (Pre-mitigation)	Impact Significance (Post-mitigation)
Employment creation – direct, indirect and induced	POSITIVE	POSITIVE
Procurement of goods and services	POSITIVE	POSITIVE
Impact on fisheries-based livelihoods	NEGIGIBLE to MODERATE Negative	MINOR to NEGIGIBLE Negative

Economic and Livelihood Impacts (2)

Impact Assessed	Mitigation/ Management
Employment creation – direct, indirect and induced	<ul style="list-style-type: none"> • Develop and implement Project specific Recruitment Policies • Set targets to maximise the number of Zambian and Zimbabwean nationals, locals, female, disabled, unskilled, skilled and highly skilled • Establish a Recruitment Office • Free registration for recruitment
Procurement of goods and services	<ul style="list-style-type: none"> • Develop and implement Procurement Strategies • Establishment of a service provider database by the Contractor • Unbundling of contracts into smaller and more manageable packages • Setting procurement targets for different business categories
Impact on fisheries-based livelihoods	<p>If changes are observed, the Project Developer will working with NGOs and Government to develop a mitigation and compensation plan.</p>

Labour Force Related Impacts (1)

None compliance with national OHS and labour and conditions of employment

Impact Assessed	Impact Significance (Pre-mitigation)	Impact Significance (Post-mitigation)
Impacts related to possible unfair and unsafe working conditions on site	MODERATE Negative	MINOR Negative
Increased incidence of sexually transmitted infections including HIV/AIDs	MAJOR Negative	MINOR TO MODERATE Negative

Labour Force Related Impacts (2)

Impact Assessed	Mitigation/ Management
<p>Impacts related to possible unfair and unsafe working conditions on site</p> <ul style="list-style-type: none"> Investigate the record of workforce treatment by the potential contractor and / consulting engineers prior to appointment. Ensure that all appointed contractor / consulting engineers have in place human resources policies and procedures that adhere to each of the countries labour and working conditions. 	<ul style="list-style-type: none"> Development of HIV/AIDS prevention programmes Implementation of Workforce Code of Conduct Implementation of STI and HIV/AIDS information, education and communication campaigns
<p>Impact related to increased incidence of sexually transmitted infection including HIV/AIDS</p>	

Risk Associated with Increased Road Traffic

Impact Assessment:

Increased road traffic may result injuries to or fatalities to people and livestock.

Impact Significance (Pre-mitigation)	Impact Significance (Post-mitigation)
MAJOR Negative	MODERATE Negative

Mitigation/ Management

- Develop and implement Vehicle and Traffic Management Procedures
- Develop and implement grievance procedures
- Develop and implement Damage Compensation Policy and Procedure

Impacts on Tourism

Impact Assessment:

Rehabilitation activities with the most likely impact on tourism are probably associated with blasting for rehabilitation of the plunge pool.

Impact Significance (Pre-mitigation)	Impact Significance (Post-mitigation)
NEGIGIBLE Negative Impact	NEGIGIBLE Negative Impact

Mitigation/ Management

- Install Project information boards, which provide a brief description of rehabilitation works, Project timeframes as well as the blasting schedule
- Implementation of noise and dust abatement measures as required
- Develop and implement grievance procedures

Dam Safety (1)

Impact Assessment:

The primary threats to current dam safety include:

- Undercutting of dam foundations;
- Failure of dam due to lack of foundation support;
- Failure of secondary concrete in u/s slots to carry stop beam loads;
- Loss of ability to close gate upstream;
- Loss of ability to pass floods leading to dam failure if gates fail in closed position; and
- Uncontrolled release of water resulting in loss of power generation due to emptying of reservoir.

Dam Safety (2)

- Comply with the World Bank Safety of Dams Guidelines (OP/BP 4.37) to ensure that appropriate measures are implemented and sufficient resources provided to ensure the continued safety of the dam.

- Emergency Response Plan

Thank You

Open discussion

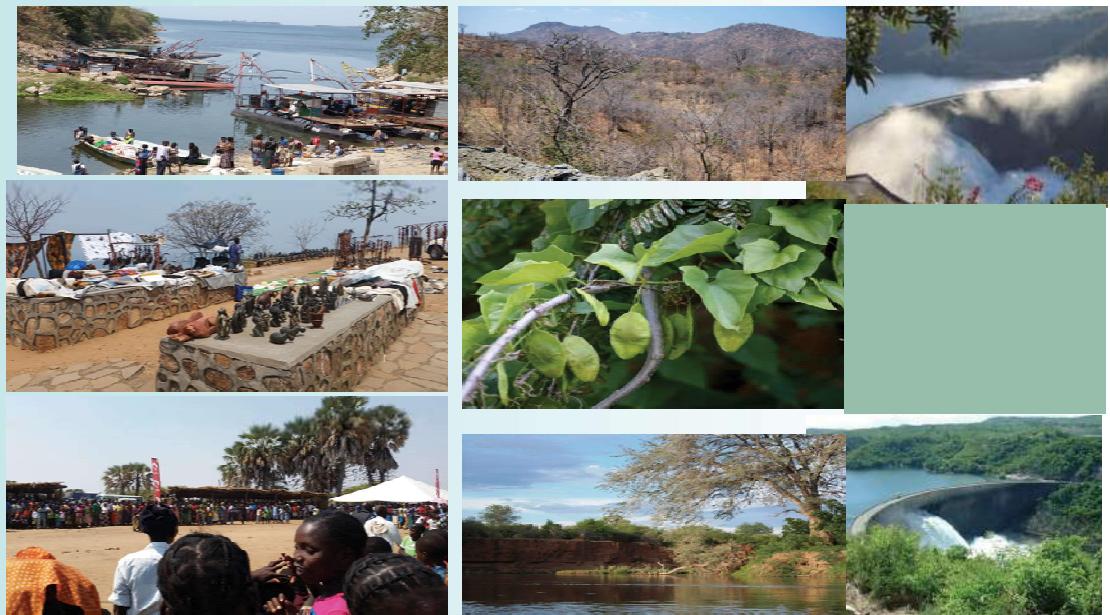
Way Forward

- All comments on ESIA feedback (and associated NTS) are due by 23rd March 2015
- ERM will notify all registered stakeholders of the EMA and ZEMA decision on ESIA Report
- Following EMA and ZEMA decision the ESIA will be made available on the project website

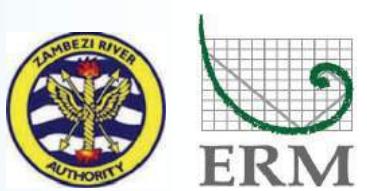
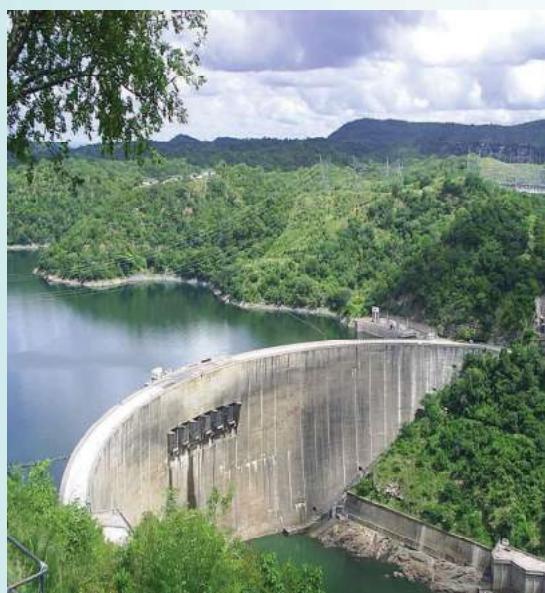
Annex B: 15

Non-technical Summaries (English, Shona, and Tonga)

Non-technical Summary – English



Non-Technical Summary: Draft Environmental and Social Impact Assessment (ESIA) for the Proposed Rehabilitation of Kariba Dam Support Infrastructure



Project Background

The Kariba Dam is located on the Zambezi River, on the border between Zambia and Zimbabwe. It is situated 130 km south-south-east of Lusaka (Zambia) and 280 km north-west of Harare (Zimbabwe); see (page 3). The Kariba Dam is managed and operated by the Zambezi River Authority (ZRA), a statutory body established in 1987 and jointly and equally owned by the Governments of Zambia and Zimbabwe. ZRA is also responsible for overseeing any further development of the Zambezi River.

The ZRA is proposing the rehabilitation of some of the support infrastructure of the Kariba Dam, namely the plunge pool and spillway. As per the agreed outcomes in a meeting held with the Zambian and Zimbabwean Environmental Management Authorities (dated 24 November 2014, held at the ZRA Administrative Block in Kariba), in which the implementation of a harmonised ESIA process was discussed, a joint ESIA Report (this report) must be submitted to both Environmental Authorities for review.

The objective of this ESIA is to assess the potential environmental and social impacts associated with the rehabilitation of the Kariba Dam. Moreover, the ZRA will require an ESIA to be undertaken in accordance with the environmental regulations of Zambia and Zimbabwe before they will be granted permission to continue with the works bearing in mind the findings of the ESIA. In addition to Zambian and Zimbabwean legal requirements, the ESIA conforms to international standards and best practices, in particular the requirements of the African Development Bank, the World Bank Group, the International Finance Corporation (IFC) and the Equator Principles. ZRA appointed Environmental Resources Management (ERM) as the environmental consultant to conduct the ESIA.

What is an ESIA Study?

Baseline

- What are the current environmental and social conditions of the Project Area?

Prediction

- What will be the Project's impacts be? How will the environment and society change as a consequence of the Project?

Evaluation

- Are the Project impacts significant, if so, how significant?

Mitigation

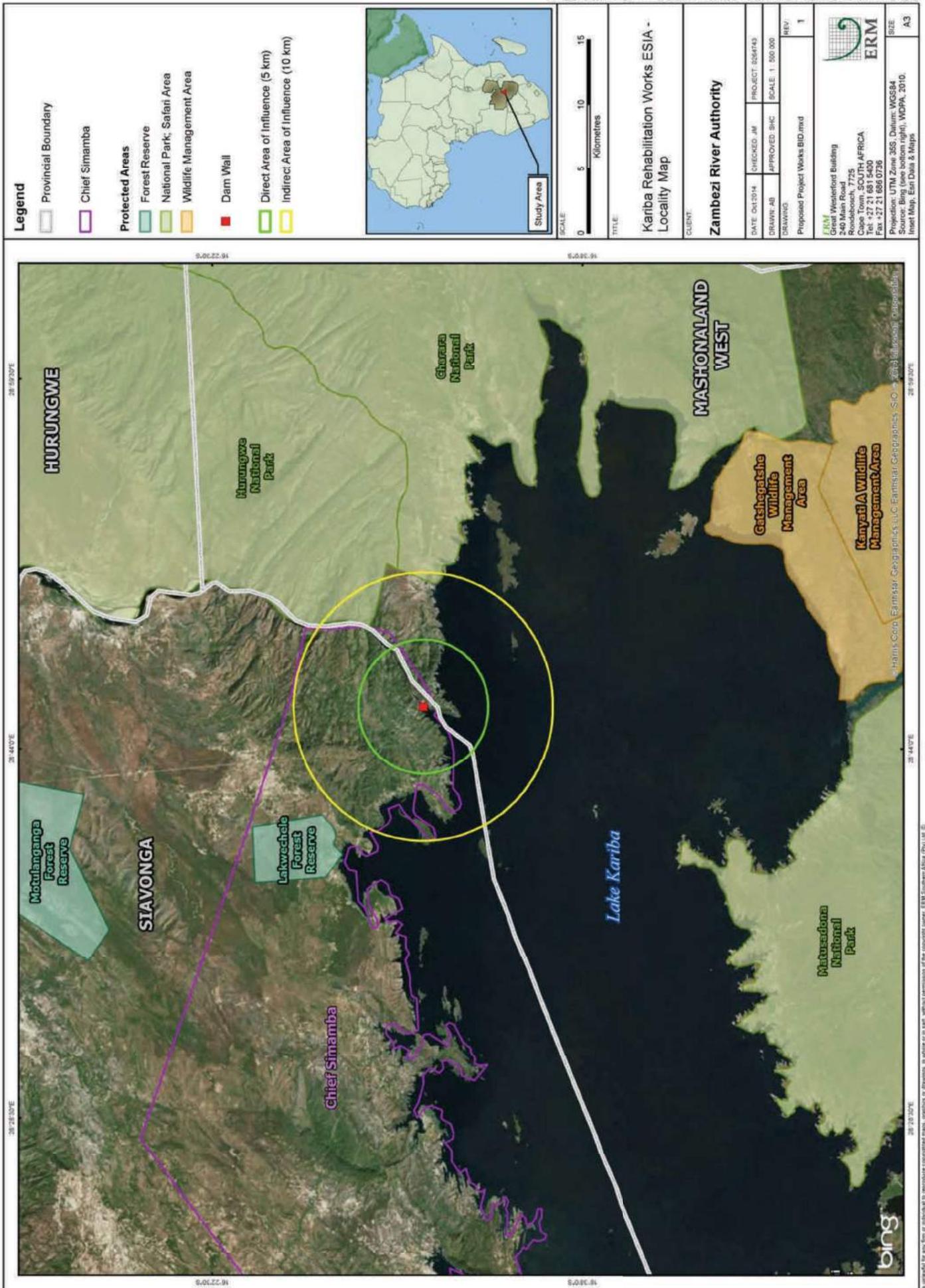
- If the impact is significant, what can be done to avoid, reduce, remediate, or compensate for the adverse effects or enhance the benefits?

Residual Impact

- What will the residual impact be after the mitigation? How significant will this be?

An ESIA is a study to identify and assess the possible environmental and social impacts associated with a proposed development – in this case the rehabilitation of Kariba Dam infrastructure. In order to commence with the Project, an ESIA must be done. This ESIA must be done in accordance with the relevant in-country legislation as well as international good practice standards and guidelines. An ESIA process typically aims to answer five key questions regarding the proposed development. These questions are illustrated on the left.





The Proposed Project

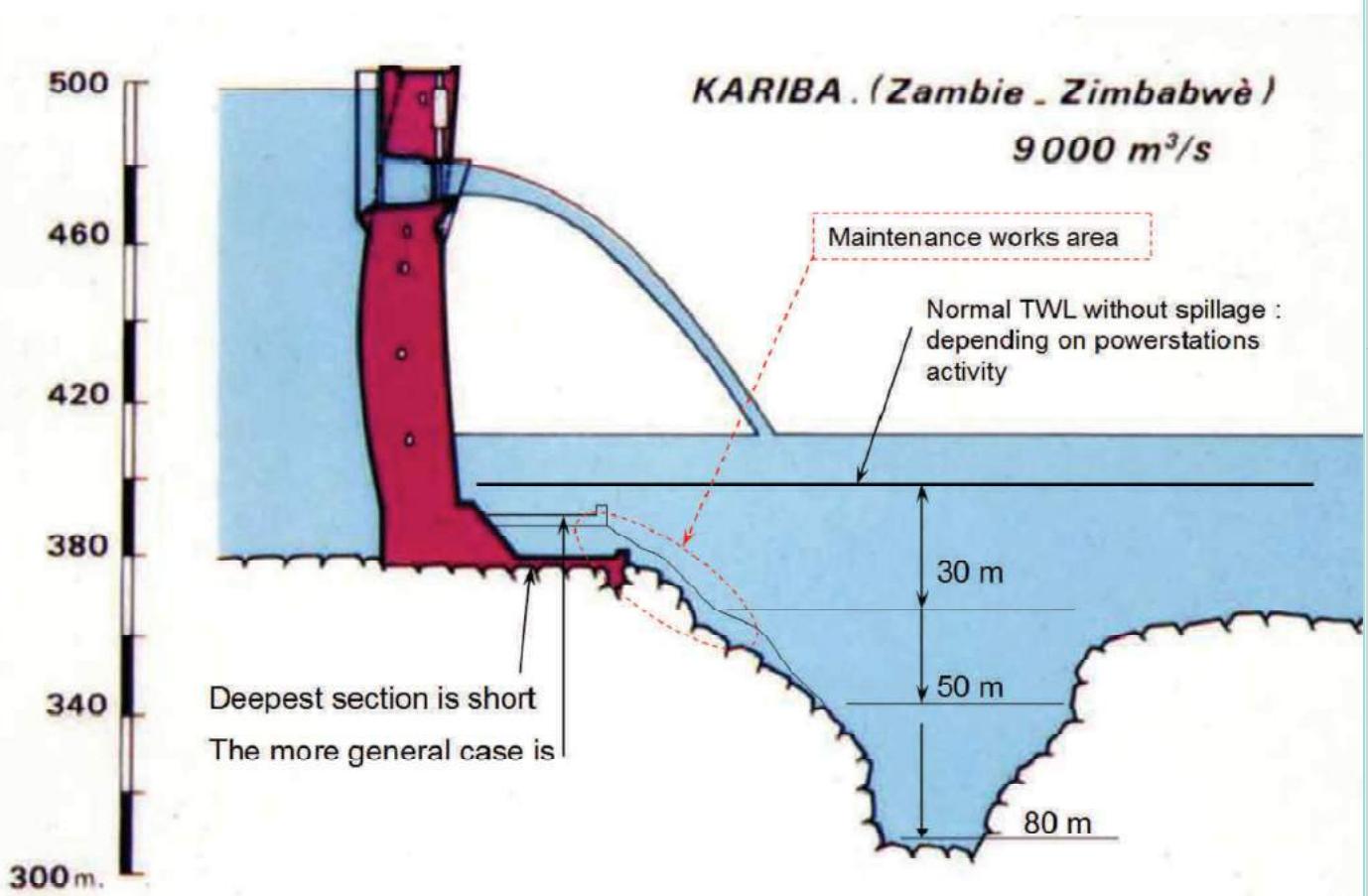
The Kariba Dam infrastructure requires necessary rehabilitation work to the plunge pool and the spillway. The details of which are presented below.

The Plunge Pool Rehabilitation

Over the years, due to sustained heavy spillage episodes, the river bedrock in the plunge pool (situated immediately downstream of the dam wall see below) was scoured down to 80m below the normal water level. Therefore there is a major concern over the natural development of the plunge pool in future, especially in case of exceptional floods and of intense spillages as is illustrated in the photograph in below.

In order to manage future uncontrolled deepening of the plunge pool and to avoid the toe of the dam wall from weakening, it has been concluded that the plunge pool should be made bigger to include areas on both river banks as well as in a downstream direction. It is foreseen that this excavation and reshaping of the plunge pool will facilitate the draining of spillage flows downstream, and avoid the concentration of turbulence in a restricted and confined area as is currently the case.

The Plunge Pool showing 80m scouring over a period of 50 years



The Plunge Pool Rehabilitation (Cont.)

The plunge pool will be enlarged through the excavation of the riverbed. The excavation will be performed with the drill and blast method. The excavated rock will be transported from the pool to a dump site 2.5 km downstream, on the Zambian side of the River. Construction activities will begin with the construction of a coffer dam downstream of the plunge pool which will allow for drying of the river in the area of the plunge pool.

A number of associated activities will form part of the refurbishment, namely:

- Access road rehabilitation and construction;
- Construction of a cofferdam downstream of the plunge pool and upstream of the powerhouses';
- Pumping the water out of the plunge pool and releasing it further downstream in the Zambezi River;
- Continuous pumping of water out of the plunge pool area for the entire duration of the works; and
- Additional drilling and concreting inside the plunge pool area.

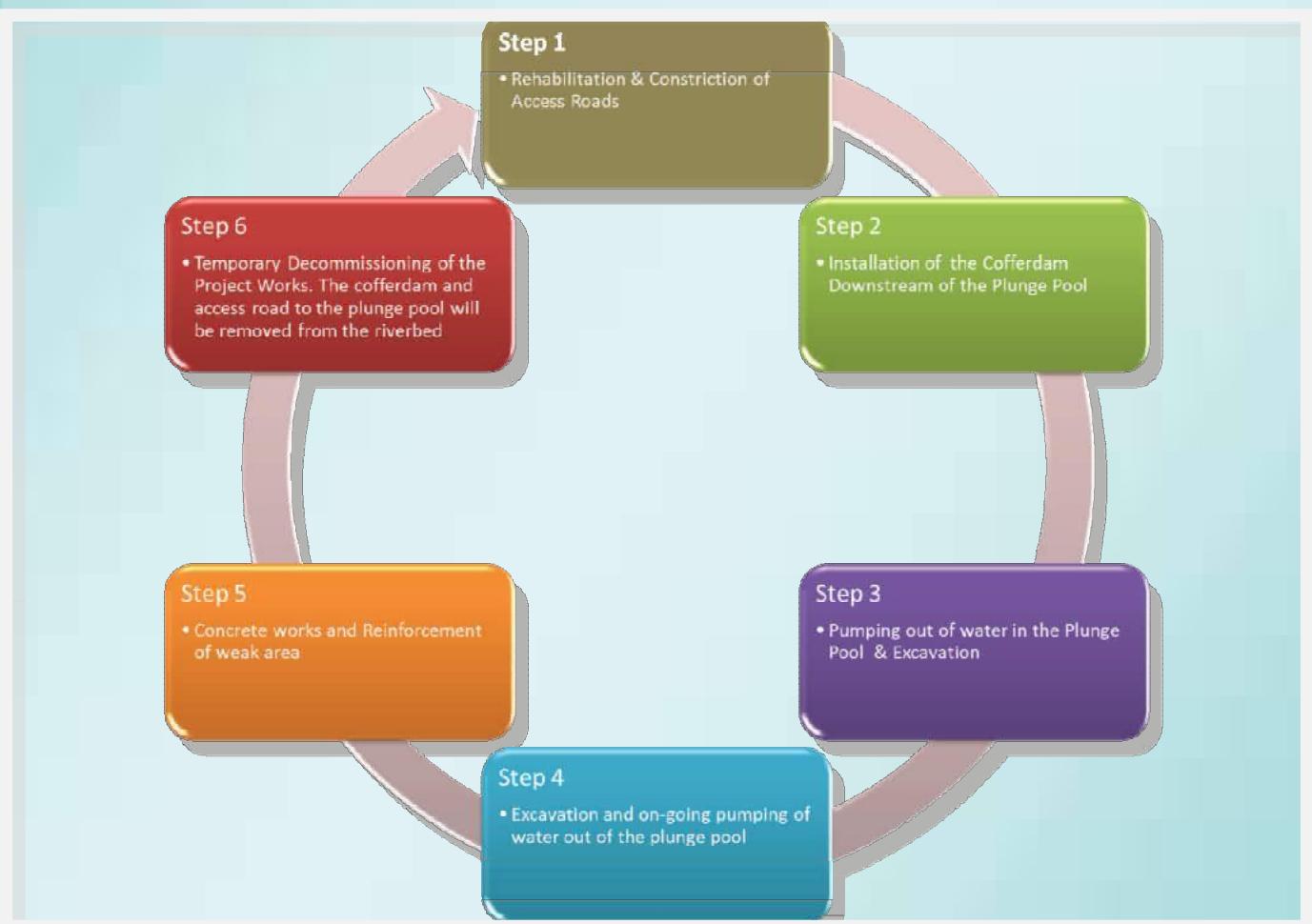
Plunge pool reshaping - plunge pool reshaping view from above



Plunge Pool Work (Cont.)

It is important to note that due to the location of the works area, namely at the toe of the dam wall, construction can only be done during the dry season / non-spillage period. This limits the construction timeframe significantly. This means that construction will be done in 7 month phases (May-November) after which all materials and equipment will be removed from the works area to allow for the 5 months spillage period. This cycle of site establishment and removal will continue for 5 years. The sequencing of the construction activities is illustrated below.

Sequencing of plunge pool construction activities



Spillway Rehabilitation Works

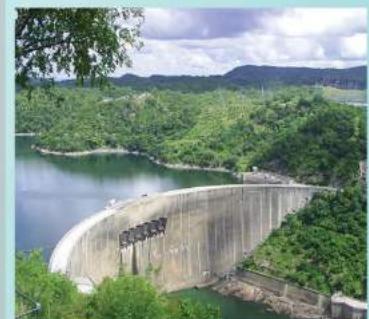
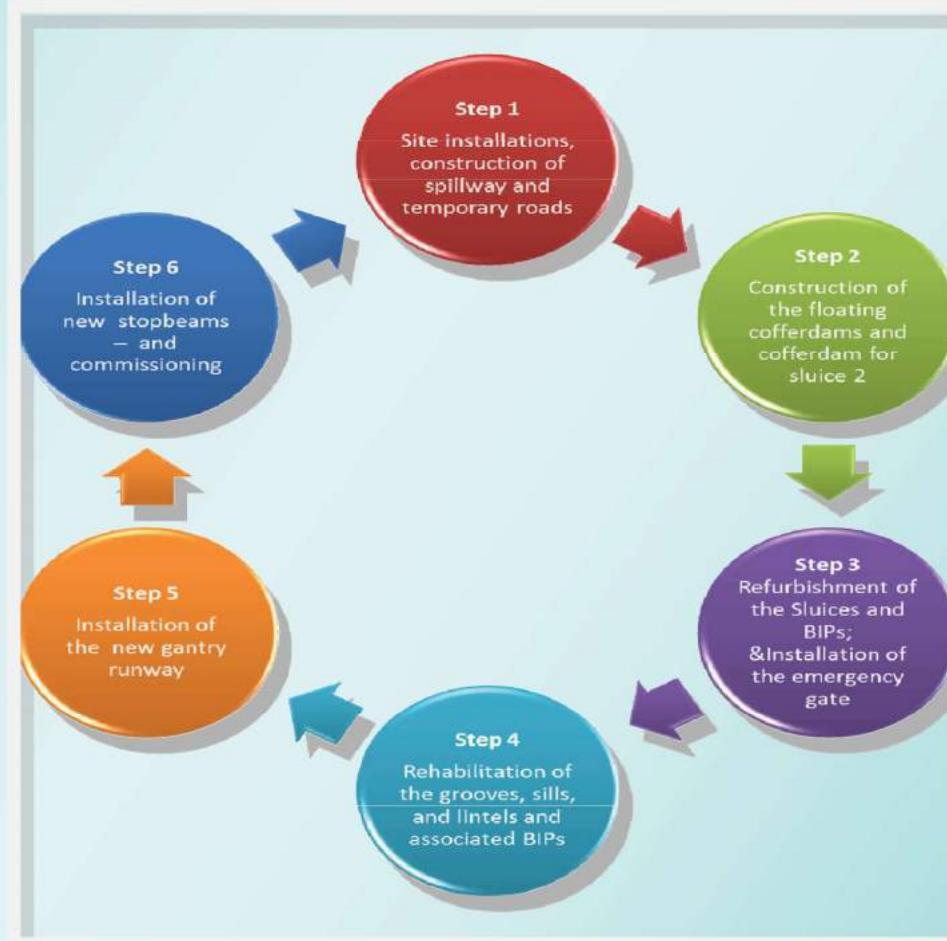
The spillway is located in the middle of the Kariba Dam wall and has six sluices equipped with downstream gates as shown below. The gates are used to control the water flow through the dam during periods of high flow. Overtime, the concrete around the sluice-gate s has expanded and the gates are not able to operate properly. In the event of a gate jamming this may result in unsafe conditions and threaten the safety of the dam wall structure. The concrete grooves around the gates need to be rehabilitated and an emergency gate needs to be added.

To rehabilitate the six sluice gates that make up the spillway, a coffer dam type structure needs to first be constructed. This will be constructed in Zimbabwe, where the slipway will also need to be upgraded. Each sluice gate will then be rehabilitated over a one year period taking up to six years to complete. This rehabilitation will take place only after the plunge pool rehabilitation has been complete.

The spillway rehabilitation activities will include:

- The upgrade of the access road to the existing Zimbabwean District Development Fund slipway and the rehabilitation of the slip way;
- Construction of cofferdams and floating of the coffer dams to the sluices and dewatering of the cofferdams to allow for rehabilitation works in the dry;
- The installation of an emergency gate with a gantry to be able to close a sluice.

Sequencing of spillway construction activities



Public Participation

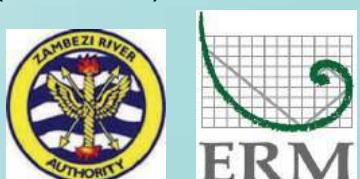
The overall public participation process was designed to meet the Zambian and Zimbabwean legal requirements as well as international best practice. In this regard the public participation was designed to slot in with typical ESIA Phases; namely Scoping, draft ESIA and announcement of ZEMA and EMA's approval or rejection (i.e., environmental approval) regarding the Project. The phases and activities planned per phase are shown below.

Public Participation Process



During the Scoping phase the following formal project announcement activities were undertaken:

- Placement of newspaper advertisement in Zambia and Zimbabwe;
- Placement of Site Notices (Kariba and Siavonga Districts);
- Distribution of 1,000 Background information Documents (BID);
- Registration of stakeholders as Interested and Affected Parties (I&APs);
- Set-up of Project website (<http://www.erm.com/KaribaDamESIA>);
- Authorities and Public Meetings were held; and
- Recording of Stakeholder Issues and Concerns Report; and
- Submission of Scoping Report (Zambia) and Project Prospectus (Zimbabwe) to the authorities.



Summary of Environmental and Social Impacts

This Section identifies and describes the key environmental and social impacts of the proposed Project on the area immediately surrounding the Project site.

The findings are presented in a table format (see below) according to the following categories:

- Impact description.
- Impact assessment (with an assessment scale ranging from minor, moderate or major positive or negative impacts).
- Mitigation measures to achieve avoidance or minimisation of negative impacts and enhancement of positive impacts.
- Residual impacts remaining after mitigation measures were implemented.



Table 3.1

Summary Environmental and Social Impacts

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
Physical Environment	<p>Impacts on Hydrology: Possible loss of downstream flows due to the possible spilling / non-spilling requirements is likely pose a risk to the maintenance of ecological flow requirements.</p>	MAJOR NEGATIVE	<ul style="list-style-type: none"> Ensure that the downstream flows are maintained and in the event of a required reduction in water released from the power stations; the Project Developer should ensure that the downstream flows are not less than the maintenance low flow of 440m³/s. Non-perennial systems (seasonal rivers / streams) affected by linear infrastructure should be crossed perpendicular to banks and where feasible at the narrowest section of the watercourse. The orientation and placement of in-channel support structures should be perpendicular (at right angles) to the channel (waterway) banks. Where in-channel supports are used, they should be parallel to stream flow. Span bridges should be placed parallel to banks. Temporary and permanent crossing structures should allow sufficient space to accommodate flood events. Watercourse crossing design for linear infrastructure, in particular relating to the upgrade of the access road to the quarry, which crosses a perennial stream should aim to maintain natural channel processes. Spanning systems (particularly smaller watercourses) is preferred over in-channel support structures. An ecological sound water crossing allows hydrological and substrate continuity. 	NEGIGIBLE

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
	Impacts on Water Quality: The drainage of the plunge pool, installation of the cofferdam, dredging of the slipway, blasting activities, spillage of hydrocarbons, etc. may lead to the deterioration of water quality downstream of the dam. This will most likely be attributed to increased sediment loads (e.g. earth and rock moving activities), construction material (e.g. cement), hydrocarbons (e.g. oil and diesel), solvents and other hazardous substances via accidental spillage/leakage from construction machinery and equipment.	MODERATE NEGATIVE	<ul style="list-style-type: none"> No dumping of any building rubble, soil, litter, organic matter or chemical substances should occur within watercourses. Dumping and temporary storage of these should only occur at predetermined locations. The dewatering systems of the plunge pool should be designed to accommodate as much sediment trapping as possible. The total suspended solid levels downstream of the dewatering point should not vary with more than 15% that of background levels. Construction equipment should not be serviced or refuelled near the river or dam. A detailed spillage and contamination plan should be developed and implemented. The plan should provide detailed measures to control risks related to suspended sediment and turbidity, damage to riparian vegetation and spillage of fuels and oils, cement and other foreign materials. Where instream rehabilitation activities take place, develop and implement measures to stabilise bed and banks after completion of rehabilitation efforts. All active work sites should consider storm-water and surface runoff management systems; including the separation of clean and contaminated runoff, where contaminated runoff is isolated and treated. 	MINOR NEGATIVE

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
			<ul style="list-style-type: none"> Dredging activities associated with the construction of the slipway, should aim to minimise the spatial and temporal extent of sediment disturbances. In the case that dredge sediment reflects increased concentrations of diesel range organics, this should be removed and disposed of at an area outside of the riparian zone, river, dam or any other drainage line and associated vegetation. Water quality monitoring during rehabilitation works should monitor pH, EC, TDS, temperature, turbidity and dissolved oxygen on a weekly basis. For the rehabilitation of the plunge pool, these measurements can be taken from the river bank at 200m, 500m and 1km intervals downstream from the instream activities. Hydrocarbons, major ions (Sulphates, Chlorides, Calcium, Magnesium, Sodium, Carbonates/Bicarbonates) and nutrients (total Nitrogen and total Phosphates) should be monitored in line with the water quality monitoring plan. 	NEGIGIBLE
		MINOR NEGATIVE	<p>Impacts on Erosion and Sedimentation: The removal and disturbance of vegetation and soil as well as blasting activities poses a risk for erosion and sedimentation related impacts.</p> <ul style="list-style-type: none"> Develop and implement erosion and silt control mechanisms, which includes the elimination of surface flow through the active work site. Silt fences or hay bales need to be placed near the base of an exposed slope in order to limit the amount of sediment entering the watercourse. Erect silt barriers along all affected drainage lines should be undertaken to curb any sediment and silt run-off in the preparation of rehabilitation activities. Depending on the silt load suspension within the plunge pool, it may be necessary to delay dewatering until sediment has settled or until turbidity (a measure of water clarity how much the material suspended in water decreases the passage of light through the water) levels downstream of the discharge point do not vary with more than 10% to that of background values. Non-erodible materials should be used for the construction of any berms (barriers), cofferdams or other isolation structures. 	NEGIGIBLE

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
			<ul style="list-style-type: none"> Spoil piles should be placed above the high water mark in distinct piles and adequate erosion measures should be implemented in order to minimise and reduce erosion and siltation into the watercourse from spoil piles. Runoff control features should be designed to minimise soil erosion and avoid placement of infrastructure on unstable slopes. Erosion control measures should be inspected regularly (at least weekly during the wet season) during the course of rehabilitation works and necessary repairs need to be carried out if any damage has occurred 	MINOR
Biophysical Environment	Impacts on the Aquatic Environment: Rehabilitation activities relating to dredging, blasting and dewatering are likely to result in direct fish mortalities due to the proximity of these activities to the instream environment.	Moderate Negative	<p>Blasting impacts:</p> <ul style="list-style-type: none"> Blasting induced over pressure should not exceed a 100 kPa and peak particle velocity should not exceed 13mm/s. All fish killed during blasting will be collected immediately after the explosion if it is going to be consumed. <ul style="list-style-type: none"> The dewatering of the plunge pool will present an opportunity for aquatic ecology research to study further the taxonomic resolution of the mid-Zambezi River fisheries resources. The Project Developer will establish a biological monitoring system before, during, and after rehabilitation. The monitoring system will occur in the same location as those recommended in the aquatic ecology study on a quarterly basis during rehabilitation works and reduced to biannual basis for a period of two years following the end of rehabilitation works. 	Negative

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
	Impacts on Terrestrial Habitat: Impact on or destruction of sensitive habitats due to the construction of Project infrastructure (esp. clearance of vegetation for road widening, waste rock dump sites, etc.) on fauna and flora.	NEGIGIBLE	<ul style="list-style-type: none"> A qualified and competent Environmental Officer will be appointed with sufficient authorisation to ensure protection of the environment is prioritised. He/she should ensure that mitigation listed with the ESNP is implemented to minimise environmental impacts. Ecological awareness will be incorporated into labour force induction programmes. Emphasise will be on highlighting that many of the active work areas are inside protected areas and should include the importance of minimising the disturbance to the environment. In order to avoid footprint creep, the Project Developer, Engineer and Contractor will determine the minimum required land area for all rehabilitation works, equipment laydown sites, construction vehicle parking, erection of staff toilet facilities, construction viewing sites, etc. These areas will be clearly marked on the ground and pointed out to staff and contractors prior to the start of construction activities. 	NEGIGIBLE
	Impacts on Terrestrial Species of Conservation Concern: Exposure and scaring of fauna in the project area due to increased road traffic, night time lighting, and noise levels from vehicles, generators, etc.	MINOR to NEGIGIBLE NEGATIVE	<ul style="list-style-type: none"> The Project Developer will develop and implement an Animal Rescue Plan. The project Developer, working with the local wildlife authorities, will arrange to have qualified/ or trained persons of authority to be on-call and able to react. Their contact details should be appropriately circulated amongst rehabilitation work teams and included in induction programmes for use in the event of an incident involving a dangerous or potentially dangerous animal. 	MINOR to NEGIGIBLE NEGATIVE

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
	Impacts on Protected Areas: Unplanned and / or non-routine project activities (such as spillages or failure of cofferdam) have the potential to affect protected areas downstream of the Kariba Dam; and in turn, affect the wildlife that exists in the downstream	MODERATE NEGATIVE	<ul style="list-style-type: none"> Proactive engage and collaborate with wildlife conservation authorities to ensure that they are familiar with future plans, activities taking place and are provided with opportunity to advise on day-to-day measures to minimise possible impacts. 	NEGIGIBLE
Social Environment	Impacts on Tourism: Activities associated with the reshaping of the plunge pool will temporarily change the visual landscape of the area (especially the presence of generators, vehicles, cofferdams, noise, pumps, etc.) caused by construction. This change is likely to be experience mostly by tourism coming to visit the dam from the vantage points.	NEGIGIBLE	<ul style="list-style-type: none"> The Project Developer will install project information boards, which provide a brief description of rehabilitation works, Project timeframes as well as the blasting schedule. The Project description and rehabilitation schedule will be shared with tourism operators. Implementation of noise and dust abatement measures as required. 	NEGIGIBLE
	Impact on Fisheries-Based Livelihoods: It is anticipated that the water quality downstream of the dam will decrease due to the removal and disturbance of vegetation and soil as well as blasting activities. This will increase the likelihood for erosion and sedimentation to be carried downstream and affecting fisheries resources.	NEGIGIBLE to MODERATE NEGATIVE	<ul style="list-style-type: none"> The mitigation/management measures as recommended of the aquatic ecology study will be implemented. An aquatic monitoring program should be implemented that will enable an early identification of a decline in fish numbers and associated fish catches downstream. If changes are observed, the Project Developer will working with NGOs and Government to develop a mitigation and compensation plan. 	MINOR to NEGIGIBLE NEGATIVE

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
	Creation of employment opportunities: Increased employment creation in the project area as a result of the project's workforce needs for the construction activities over a medium-term (13 years for both the construction of activities associated with the plunge pool and spillway).	POSITIVE	<ul style="list-style-type: none"> The Project Developer, Consulting Engineer and the Contractor will develop and implement Project specific Recruitment Policies. The Project Developer will set targets to maximise the number of Zambian and Zimbabwean nationals, locals, female, disabled, unskilled, skilled and highly skilled employed by the Project The Project Developer will set local procurement targets as part of Conditions of Contract with the Consulting Engineer and Contractor. The Consulting Engineer and Contractor will prepare and submit monthly and cumulative employment statistics reports to the Project Developer. Annual employment statistics audits will be conducted. Based on the results of the audit, incentive for achieving employment targets can be considered. All employment opportunities will be public advertised in all newspapers, public libraries, the District Offices and in all relevant languages. The Contractor will be expected to establish a Recruitment Office with the purpose of keeping a record of available prospective employees, their skills levels and contact details. Registration of job seekers with the Recruitment Office will be free of charge. 	POSITIVE

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
Procurement of goods and services:	POSITIVE	<p>Local, regional and national (small, medium, and large enterprises) will get the opportunity to become part of the project's supply chain.</p> <ul style="list-style-type: none"> To the greatest extent possible, mentioned Procurement Strategies will provide for: The establishment of a service provider database by the Contractor (also for use by the Engineer and Project Developer). The database should reflect the name, type, location, contact details and capacity of the businesses as a minimum. The unbundling of contracts into smaller and more manageable packages so that in-country and possibly less experienced local and regional suppliers have a better chance of being selected. Setting procurement targets for different business categories e.g. per sector or in terms in-country or women ownership and or management of the business. Tracking of performance against procurement targets and issuing of quarterly performance reports to the Project Proponent. Basic capacity building support to in-country businesses to assist them with responding to tender opportunities and meeting administrative requirements of written communication, invoicing and reporting. Advertising of procurement opportunities according to a specific, agreed and well-communicated method and medium. 	POSITIVE	
Impacts related to possible unfair and unsafe working conditions on site:	MODERATE NEGATIVE	<p>Unsafe and unhealthy working conditions particularly due to the Contractor's lack of adherence to the national standards for Occupational Health and Safety (OHS).</p> <ul style="list-style-type: none"> The project Developer will assess the adequacy of the proposed human resource practices and policies of prospective Engineers and Contractors as part of the tender evaluation process. Employers (inclusive of Project Developer, Consulting Engineer and Contractor) will adhere to in-country legislation for workers' working conditions, living conditions and occupational health and safety. 	MINOR NEGATIVE	

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
	Workforce exposure to poor or unfair working conditions due to the Contractor's lack of adherence to the national standards for labour and working conditions.		<ul style="list-style-type: none"> Non-compliance with legislative requirements should result in penalties, the form of which should be determined by the Project Developer. The Project Developer, Consulting Engineer and Contractor will a robust Grievance Policy and Procedure available to employees so that unfair and possible unsafe practices are reported and investigated. Monthly and cumulative grievance and safety statistics reports should be prepared, submitted and discussed with the Project Proponent. An annual audit of grievance and safety statistics should be conducted. 	MINOR to MODERATE NEGATIVE
	Increased incidence of sexually transmitted infections (STIs) including HIV/AIDS:	MAJOR NEGATIVE	<p>Transport drivers, who may typically have higher rates of HIV or STIs than the general population, may engage in casual sexual activity at their end destination, acting as a vector for the disease.</p> <p>A mainly male workforce with a comparatively larger disposable income may engage in sexual activities in local communities, acting as a vector for the disease.</p> <ul style="list-style-type: none"> Contractors will develop and implement an HIV/AIDS Prevention Programmes for its workforce; with a key focus on HIV/AIDS prevention and treatment programme The Project will restrict workforce (ie., migrant workers) access in local communities through closed camp, control over shift rotations, and others. Develop and implement Workforce Code of Conduct and implement relevant training. Conduct should include measures related to closed camp, prohibiting substance abuse, zero tolerance on illegal activity and prostitution use, illegal gambling, consumption of drugs, fighting and providing guidance on acceptable conduct etc. The Workforce Code of Conduct should be adhered to by all Contractors. Any Contractor found in violation of the Code should face disciplinary hearing which should potentially result in dismissal. Contractors should ensure that they have sufficient capacity and capability to care and treat any HIV-positive employees. Contractors should ensure there is access to free condoms (including female condoms) at the worker camp to promote safe sexual practices. In partnership with local health officials and relevant NGOs, Contractors should undertake information, education and communication campaigns around safe sexual practices and transmission of STIs and HIV / AIDS. In partnership with local authorities and relevant NGOs Contractors should support women's empowerment and education programmes to promote women's rights and safe sexual practices (including the use of condoms and female condoms) and support. 	RED

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
	Increased Risk of Road Traffic Accidents: The increase in road traffic may result in injuries to or fatalities to people and livestock.	MODERATE TO MAJOR NEGATIVE	<ul style="list-style-type: none"> The Project will develop and implement Vehicle and Traffic Management Procedures which all project workers will adhere to. <p>These procedures will include the following mitigation measures:</p> <ul style="list-style-type: none"> Fitting all Project vehicles with tracking devices capable of checking vehicle speeds and routes followed. Should drivers not adhere to agreed speed limits and approved routes, disciplinary measures should be implemented according to an agreed system. Project vehicles should be subjected to regular maintenance checks and maintained in a safe operating condition. Definition of safe operating speeds for loaded and empty haulage vehicles should be specified, particularly on public roads. Prohibition of unauthorized passenger transport. No members of the public should be transported in any Project vehicles. Alcohol and drug use should be prohibited immediately before and during the use of Project vehicles. The use of cellular telephones whilst driving Project vehicles should be prohibited. Where necessary public roads used as part of the Project should be upgraded and maintained as necessary in the interest of safety. The development and implementation of grievance procedures whereby members of the public can raise traffic related incidences and grievances for management by the project authorities. The development and implementation of Damage Compensation Policy and Procedure in the event that traffic accidents lead to injury and death as a result of negligence on the part of the Project. Permitting approval of abnormal loads to be agreed in advance with the relevant. 	MINOR NEGATIVE

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
Dam Safety	<p>Impacts Associated with Dam Safety: The primary threats to current dam safety include:</p> <ul style="list-style-type: none"> • Undercutting of dam foundations; • Failure of dam due to lack of foundation support; • Failure of secondary concrete in u/s slots to carry stop beam loads; • Loss of ability to close gate upstream; • Loss of ability to pass floods leading to dam failure if gates fail in closed position; and • Uncontrolled release of water resulting in loss of power generation due to emptying of reservoir. 	N/A	<ul style="list-style-type: none"> • The rehabilitation of the Kariba Dam plunge pool and spill way will be carried out in compliance with the World Bank Safety of Dams Guidelines (OP/BP 4.37) to ensure that appropriate measures are implemented and sufficient resources provided to ensure the continued safety of the dam. • As per OP/BP 4.37 an independent Panel of Experts will be appointed to review the investigations, design, and implementation of the rehabilitation works. • The overall rehabilitation works need to be carefully considered as part of the overall Kariba Dam Emergency Preparedness Plan (included in the ZRA Kariba Dam and Reservoir Standing Operations Procedure dated Jan 2013). The updating the preparedness plan should be the highest priority. The key to such an update is a well-developed communication plan that has been thoroughly vetted and tested. • Currently Kariba Dam is a base load facility. As part of updating the Kariba Dam Emergency Preparedness Plan, the transition of this Project to a modified peaking plant should be evaluated in terms of its potential impact and effect on dam safety. • The ZRA has acknowledged that they cannot operate all 6 sluice gates without the potential for significant compromise to the dam foundation. The maximum safe operating number is every other gate or a total of 3 gates (4,500m³/s). The ZRA have also acknowledged that if nothing is done to correct the current gate problems, they would have to reduce their rule curve by 3.5m. If that is the case, they would not be able to justify continued operation under the current rule curve given that the design flood could occur at any time and the Project does not have an emergency preparedness plan to address this current operational limitation. 	N/A

ENVIRONMENT	IMPACT	ASSESSMENT	MITIGATION OR RECOMMENDATIONS	RESIDUAL IMPACT
			<ul style="list-style-type: none"> • It appears that the Tractebel hydrology assumptions/calculations/estimated impacts have not been updated to include the additional north hydro units or the planned south hydro units. If this is the case, then the anticipated tailwater levels that have been assumed during rehabilitation works would be underestimated. This can either be corrected by operational limits placed on the new units during the time of the rehabilitation Project or revising the proposed downstream cofferdam height so that the potential for additional tailwater height is considered in the design. • The cofferdam should be addressed in an Emergency Response Plan during the period of the works to ensure protection of the work population as well as possible environmental and social impacts with a failure of the cofferdam. A failure of the cofferdam would be catastrophic to those working on the Project. • Because of the magnitude and complexity of such a Project and the potential for significant adverse impacts in the event of a failure of the structure, it is strongly recommended that the ZRA retain an independent panel of dam safety experts whose primary purpose is to review the overall project, procedures, progress, operations, and monitoring efforts, throughout the entire period of the work schedule. 	

Conclusion and way forward

Once the public feedback meetings have been concluded, all issues and questions raised will be compiled in a Comments and Responses Report (CRR). The issues raised by the public will be responded to in the IRR and this will be submitted to ZEMA and EMA for consideration during their decision making period.

If you have any comments please feel free to send these to the following people:

ERM in South Africa:

Ms. Janet Mkhabela

Telephone: +27 21 681 5400

Email: janet.mkhabela@erm.com

Zambia:

Mr. Felix Chisha

Mobile: +260-974-074 384/ +260-963 258 535

Email: felixchisha@airtelzm.blackberry.com

Zimbabwe:

Mr. Oliver Manjengwa (Zimbabwe)

Mobile: +263 772 958 671

Email: olivermanjengwa@gmail.com

Please forward all comments before the **23rd March 2015**.

During the decision making period for ZEMA and EMA, it may be required that additional public hearing be undertaken. Should this be the case the public will be notified of these meetings. The ESIA Report will also be made available by ZEMA and EMA during the decision making process.





Kariba Dam ESIA - Comment Sheet

March 2015

Should you have any queries, comments or suggestions regarding the Project, please don't hesitate to contact the ESIA team

Return this comment sheet to: **Ms. Janet Mkhabela (South Africa); or Mr. Felix Chisha (Zambia); or Mr. Oliver Man-jengwa (Zimbabwe)**

Comment:

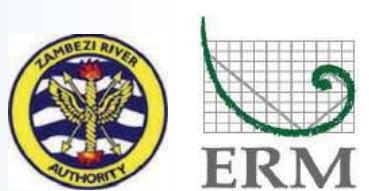
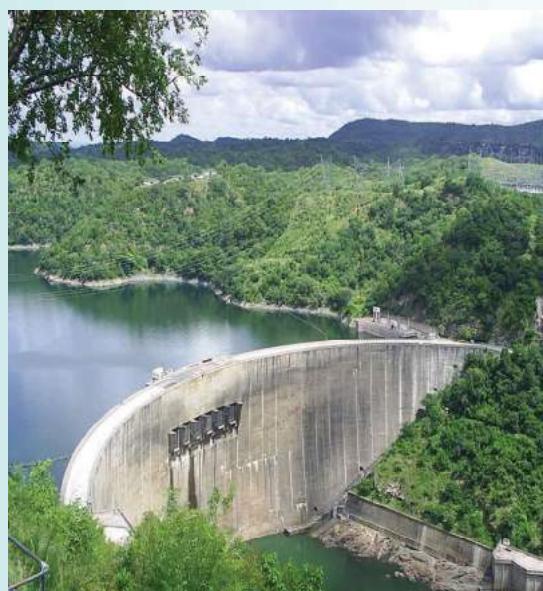
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<i>Organisation:</i>		
<i>Telephone:</i>	<i>Fax:</i>	
<i>Mobile phone:</i>		
<i>Email:</i>		
<i>Postal Address:</i>		



Non-technical Summary – Shona



**Zvevanhu Wozvawo: Zvinyorwa Zvezviwanikwa uye
zve Magariro evanhu Vemunharaunda ESIA Panguva
Yekuvakiridzwa Kwedhamhu Rekariba**



Chinangwa Chegwaro Iri

Dhamu reKariba riri murwizi rwaZambezi, pamuganhu weZambia neZimbabwe 280km kuChamhembe/Madokero eHarare. Dhamu reKariba riri pasi pe Zambezi River Authority (ZRA) yakatangwa 1987 ZRA inotongwa neHurumende dze Zambia ne Zimbabwe. ZRA ndiyo ino wona nekuvandudzwa kwerwizi rwaZambezi.

ZRA iri kuda kuvakiridza Dhamu reKariba zvikurusa dziva rinorasirwa mvura uye pano rasa mvura sechibvumirano che Zambia neZimbabwe EMA (24 November 2014 ZRA iri kuKariba) apopaka kurukurwa ESIA pabumbiro renhawurwa dzaka bvxumiranwa nemakurukota ezviwanikwa.

Kuwongorora nekuona zvikodzero zvinogona kukanganisa zviwanikwa nemagariro pakuvandudzwa kweDhamu reKariba. Basa risati rayitwa panoyitwa ESIA zvchiendrana nemitemo yenyika uye yepasi rose 'IFC'.

Zvazviri

- Ko mamiriro e zviwanikwa masango nevanhu vemunharaunda ari sei apo pachaitwa basa

Chi Chinondzi ESIA?

Zvinga ngova

- Ndedzipizingangoitika pabasa iri? Ko mamiriro edzvimbio nezviwanikwa ahange ari sei?

Zvirikutarisirwa

- Ko zvingangoitika zvinenge zvine uwanduhwakadii? Kana zvirizvo kusvika papi?

Kuwongorora nekuona zvikodzero zvinogona kukanganisa zviwanikwa nemagariro pakuvandudzwa kweDhamu reKariba. Basa risati rayitwa panoyitwa ESIA zvchiendrana nemitemo yenyika uye yepasi rose.ESIA inopindura mivhudzo mishanu inoenderana nekuvandudzwa kweDhamu mubasa iri. Tarisai pa-zasi.

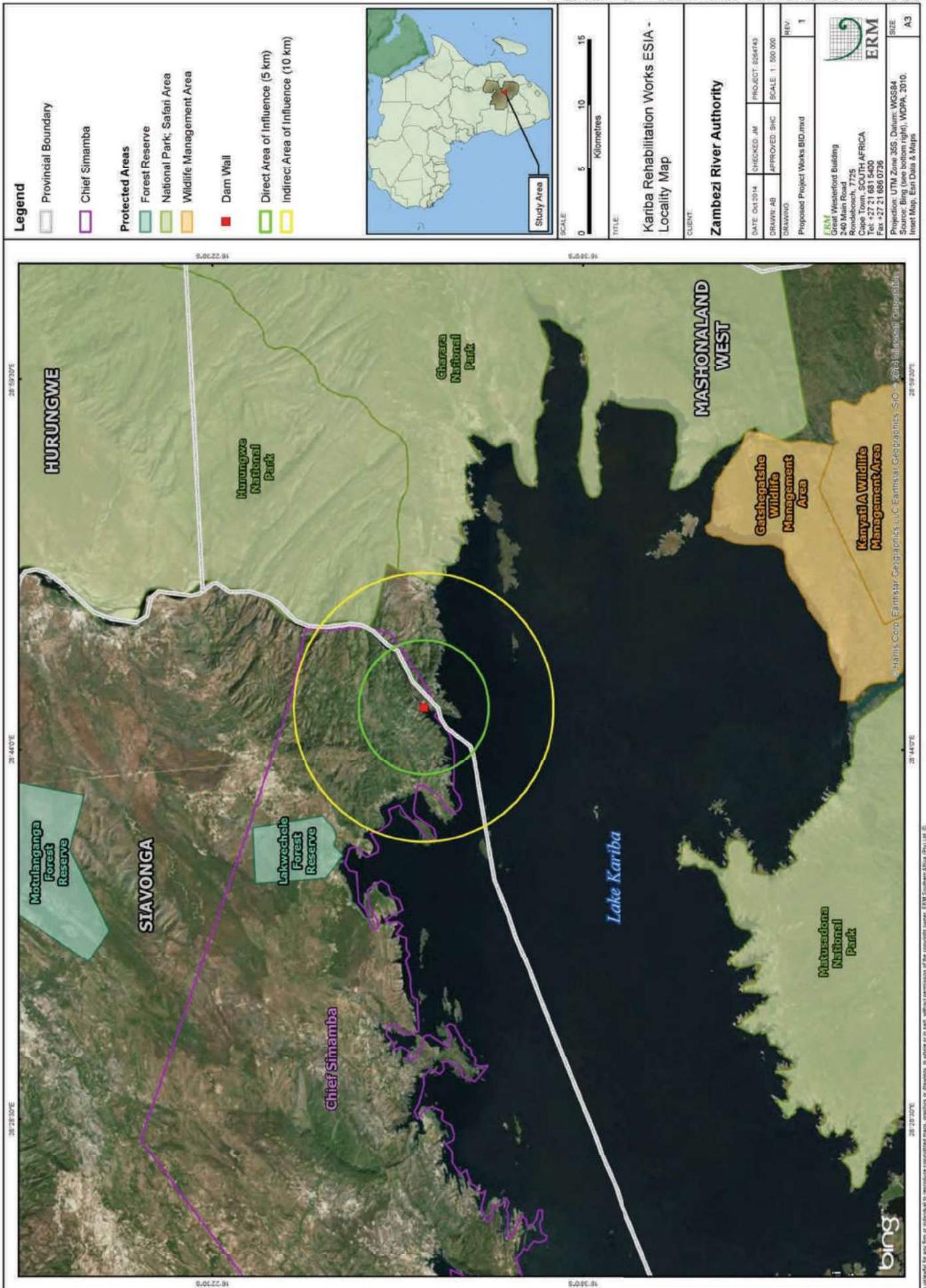
Zvinogona kubatsira

- Kana zvingango itika zvakawanda chiichngaitwe kuti zviite zvishoma uye vanhu vanga yamurwe sei?

Zvingango itika

- Kana zvaedzwa kugadziriswa zvingagosara zvakawanda sei?





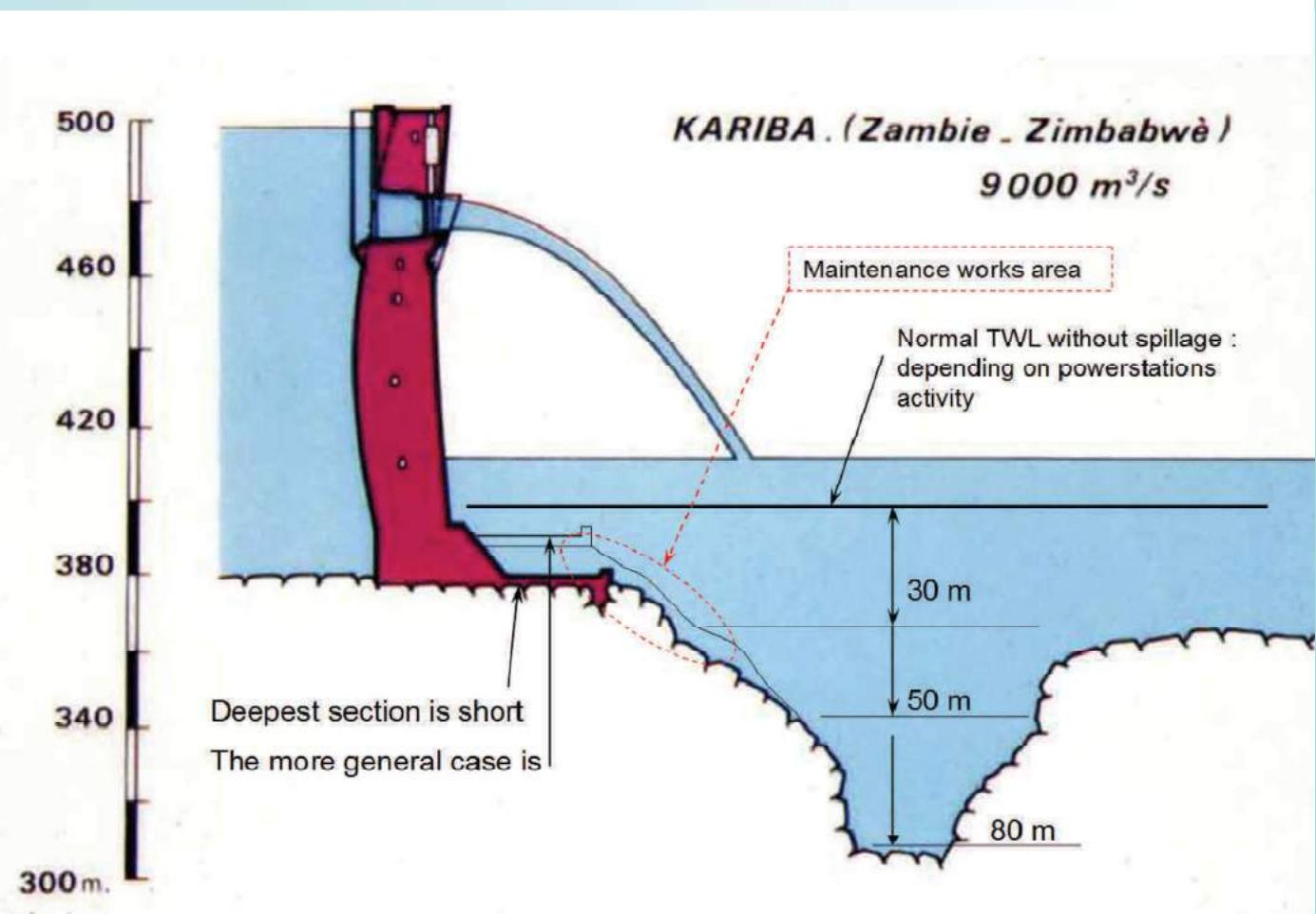
Basa Iri

Dhamu reKariba roda kugadzirwa dziva rekunorasirwa mvura 'spillway and plunge pool' sez-vichatsanangurwa pazasi.

Kugadzirwa Dziva Rekunorasirwa

Nekufamba kwenguva, rekunorasirwa mvura ye Dhamu iri (80 m below the normal water level) kunofanira kugara kuchigadziriswa ne kuwedzerwa kwedzivarino rasirwa mvura kuti bwaro weDhamhu husaita zinenetenge, tarisai pazasi. Dziva iri richa kudzwa nekuchera mumahombe kombe erwizi. Pachadirirwa nokudhuwutsa. Matombo achabviswa apa acha rasirwa 2.5km zasi dziva, divi reZambia. Kuvakwa kwedziva iri kuchatanga muchirimo. Zvichaitwa ndezvizvi:

- kugadzirwa kwe nzira
- kuvakwa kwe 'cofferdhamu' kuzasi kwedziva rino rasirwa mvura
- kupomba mvura kubva mudziva rinorasirwa mvura ichienda munaZambezi
- kuramba mvura ichipombwa kubva mudziva rinorasirwa mvura panguva yekugadzirwa
- kudhirira nekuisa kongiri mudziva rinorasirwa mvura.



Kugadzirwa Dziva Rekunorasirwa (Cont.)

Zvino kosha kuziva kuti basa iri rino itwa muchirimo chete. Izvi zvinoreva kuti zvinogona kuitwa muzvikamu zve mwedzi minomwe (May-November). Zvai sevedzeswa zvinofanirwa kubviswa kuti mvura irasike kana yazara. Zvichaitwa pamakore mashanu.

Zvichaitwa pakugadzira dziva rino rasirwa mvura zviripazasi

Kuvakiridza dziva repano rasirwa mvura



Kugadzirwa Dziva Rekunorasirwa (Cont.)

Zvichaitwa pakugadzira dziva rino rasirwa mvura



Kugazira Pano Rasa Mvura

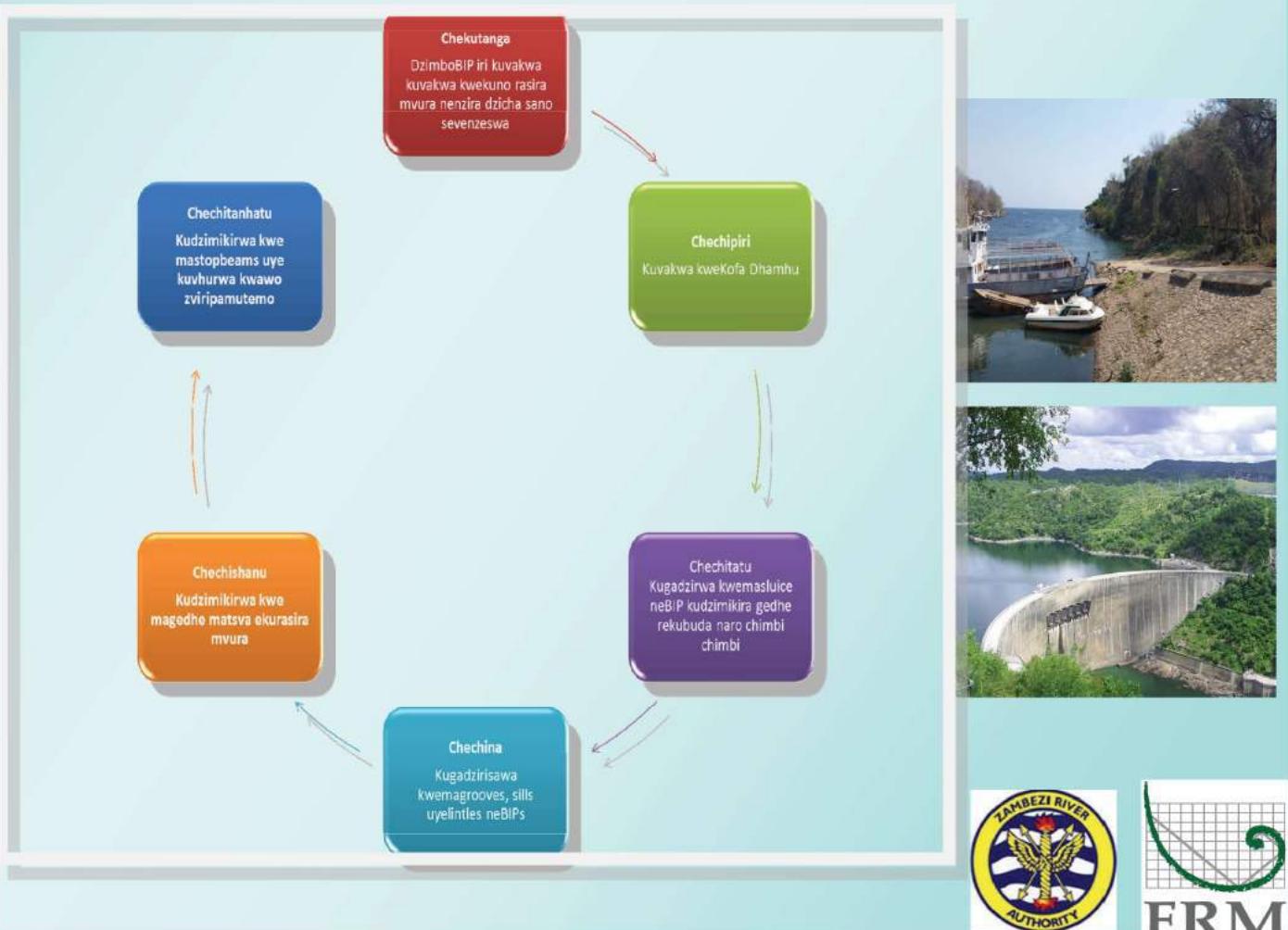
Pano rasa mvura pari pakati pemadziro eDhamu reKariba uye pane masluires ane magedhe dzasi kwerwizi wonayi zviri pazasi magedhe ano year kuyerera kwemvura nguva yaino yerera zvine samba neku famba kwenguva magedhe aya haachavhari zvakanaka. Izvi zvinogona ku-konzera ngozi magede aya anosungirwa kugadzirwa.

Magedhe aya matanhatu ano sungirwa kugadzirwa kusvika panorasa mvura wonayi mufanaidzo zviri pazasi.

Mukugadzirwa kuchatevedzerwa izvi:

- Kugadzira nzira rinoenda kuDDF pachazogadzirwa pekuisa michina yekuvaka mumvura
- Kuvakirwa kwegedhe rekudzivirira tsaonarino fanira kugona kuvhara zvakanaka
- kuvakwakwema 'cofferdam' kuita kuti abvis emvuramuma 'sluice'nguvaye kuvaka

Magedhe epaDhamhu panorasa mvura



Kushanda Pamwe Nevanhu Vemunharawunda

Kushanda pamwe nevanhu vemunharaunda kwakaitwa kuti kusangamwe ne vanhu we kuZambia ne Zimbabwe zvichi tevedza mitemo we nyika idzi. Vanhu vemunharawunda vano sungirwa kupawo maonerewo kuESIA pachidanho chega chega cheESIA uye ZEMA neEMA kubvauma kwavo kana kuramba. Izvi zviri kutaridzwa pachikamu chiri pazasi. Kukurudzira vanhu vemunharaunda kupawo maonero avo.

Izvi ndizvo zvakabvumiranwa:

- Kunyora zvisungo zvichaitwa mumapepa nhawu eZambia neZimbabwe;
- Zviziviso (Kariba neSiavongo Districts);
- Kupa vanhu vemunharaunda 1 000 Background Information Documents (BID);
- Kuregesita vanhu vemunharawunda vane chekuita nekuvakwa kweDhamu iri (I&APs);
- Kuva neProject website (<http://www.erm.com/KaribaDamESIA>);
- Misangano yaka itwa nevanhu vemunharawunda;
- Zvakataurwa nevanhu vemunharaunda zvakanyorwa kana kurecodwa; n
- Izvi zvakapiwa kuvakuru veZambia neZimbabwe.



Kuchengetedzwa Kwezviwanikwa Nemagariro Evanhu Vemunharawunda Muchidimu

Izvi zvinotaura nekuona zvinokosha mubasa iri pavanhu vemunharaunda vakakomberedza pachaitwa basa iri.

Zvakawanika wongorora nezviripazasi:

- Zvingagoyitika
- Kuwongorora zvingangoyitika kubva pazvishoma, zviripakati nepakati, zvikuru, zvakanaka kana zvakashata.
- Zvichaitwa kudzivirira zvakashata uye kuitawo zvakanaka
- Zvichasara zvakashata payedzwa kuzvidzivirira.



Table 1.1 Kuchengetedzwa Kweziwanika Nemagariro Evanhu Venunharawunda Muchidimu

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASARA ZVATIKA
Zve Environment Chaizvo	Zvigango Kanganisika: Zasi kwerwizikana mvura yava kurasikira kana kuchengetedzeka. Izvi zungangokanganisa zviwanikwa	ZVIKURU ZVINO KANGANISIKA	<ul style="list-style-type: none"> • Kuwona kuti kuyerera kwenvura inenge yaburitswa kubva kugwenya remagetsi kuri kuwongororwa ne kuitwa ne mazvo; muvaki ano kurudzirwa kuti kuyerera kwe rwizi kusadzika pasi pe 440 m³/s. • Dzizi re hove dzisirererri gore rose dzino kurudzirwa kudarikwa nepakati uye nepasina kudzika. • Dzira dzekusevendza dzichashandiswa dzino fanira kuva dzakati tasa dzichienda kumahombekombe kwerwizi izvi zvichaitwa paka tsongera kufara kwerwizi. • Pakuvaka zvicha bviswa uye zvefirapo pano siyiwa mukana wekudzivirira mafashama emvura. • Nzira yemvura nozodarika nekunzira yekune matombo (Quarry) modarika ne kurukova runo gara rune mvura harufaniri kukanganiswa. 	ZVINOWON EKWA

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVAITIKA
Zvichaita kunaka yemvura: Kudhurwa kuchaitwa padziva rino rasirwa mvura, kuchaita kuti mvura isava yakachena zasi kwerwizi reDhamhu nekuda kwekuti pachadhuuswa ivhu nematombo zvichaafamba uyewo cimende oyiri ne zvimbewo zvichatewuuka pakuvaka zvicha svibisa mvura zasikwe Dhamhu.	ZVAKAIPA PAKATI NEPAKATI	<ul style="list-style-type: none"> Kuraswa kwezvabviswa pakuputsa weDhamhu uye zva sarapakuvaka hazvibvumedzwe kuraswa muDhamhu. Kwekurasira izvi kuno fanira kuchengetedzwa. Pano bviswa mvura kubva mudziva rino rasirwa mvura hapa faniri kudarikira 15% ye pano svika mvura. Michina yekuvakira hai bvumidzwe kugadzirwa kana kumwa mafuta paDhamu kana rwizi. Kurasika kwe mvura kana kuyipa kwayo kuno fanira kugara kwakawongorowwa. Kurasika kwe oyiri simende ne zvimbewo haku bvumirwe. Pachasevenzeswa hoyra, mahombekombe adzo anofanira kuchengetedzwa. Padzvimbo dzino sevendzwa pano fanira kuya nemusiyano we mvura yakachena uye yakasviba. Yakasviba rino fanira kucheneswa ne mishonga 	ZVAKAIPA ZVISHOMA	

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVAAITIKA
		<ul style="list-style-type: none"> Pakuvaka kuno rasirwa mvura ngakuedzwe kusasvibisa mvura zvakanyanya Tsvina iyi yediesel ino sungirwa kubviswa mudhamu uye murwizi Vano wongorora ne kuchena kwe mvura vano sungirwa kutarisa pH, EC, TDS, Tembiricha, kunyunguduka kwe Oxygen pa viki rega rega. Izvi zvinogona kuitwa kubva padziva rino rasirwa mvura kuenda kumahombekombe kwerwizi pa 200m, 500m uye 1km muchidzika ne rwizi. Hydrocarbons, ma ions (Sulphates, Chlorides, Calcium, Magnesium, Sodium, Carbonates / Bicarbonates) nema nutrients (total Nitrogen ne total Phosphates) zvino fanira kugara zvaka wongororwa. 		
		<p>ZVAKAIPA ZVISHOMA</p> <p>Kuviswa nekukanganiswa kwe mimirino edzvimbbo ne matondo:</p> <p>Kudhuutsea madharameta kunoganisa jengetavhu ne zvakawanda</p>	<ul style="list-style-type: none"> Dzivirirayi jengetavhu – risa kulkukurwa nemvura. Mabhero euswa anofanira kuiswa kuti Diesel risa enda kuno famba ne mvura Dzivirirayi jengetavhu kubva pekutanga kusvika pekupedzisira kuvaka Zvirinani kumonoka kukupa mvura kuti tsvina itange yagadzana Ngati sevenzeseyi zvisinga kulkurwi nemvura paku gadzira magedhe eCofferDhamu 	<p>ZVINOWON EKWA</p>

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVAITIKA
			<ul style="list-style-type: none"> Masaga ane jecha gaasevenzeswe kuti ivhu risa kukurwa. Makandiwa ngaitwe kudzivirirwa kukurwa kwevhу. Viki roga roga ngakuwongororwejengetavhu. Kana pane zvaparadwe nekudhuitswa ngazvigadzirwe. 	
Zviwanikwa	Zvichaititika pazviwanikwa zvemumvura: Nekudhuustswa kwemdharameta hove nezvinwe zviwanikwa zve munvura zvichafa.	ZVAKAIPA PAKATI NEPAKATI	<p>Kudhuutsa:</p> <ul style="list-style-type: none"> Kudhuutsa ngakurege kudarika 100kPa zvibvari bvari zvematombo zvisa bhururuke kudarika 13mm/s Hove dzafa pakudhuutswa ngadzitorwe chimbi chimbi kana dzichizodywa Kukupa mvura mudziva rino rasirwa mvura zvichpawo mukana kuna vana mazvikokota ve zvipukana nehove kuti vadzidze zvakawanda. Muvaki we Dhamu nga wongore kuti basa iri richaitwa zvakana ka kwe makore maviri kупедза kwebase. 	ZVAKAIPA ZVISHOMA
	Zvichaititika pazviwanikwa zvepavhu: Ngaku chenjererwa wo miti ne zwimwe zviwanikwa pakugadzira nzira nekucharasirwa matombo asinabasa.	ZVINOWONEKWA	<ul style="list-style-type: none"> Mazvikokota munuya ye zviwanikwa ndye ano kodzera kuona kuti zvinodiwa ne ESMP zvatedzedzerwa. Vasevenzi vano sungirwa kukosha kwe kuchengetedza zviwanikwa, uye vachadzidziswa vachango svika. Izvi zvinoitirwa kuti vachengetedze zviwanikwa Muvaki, engineer nemuridziwebasa vachagara pasi voronga kuti michina yekuvakisa pelugara kwevanhu pachange pakamira sei. 	ZVINOWONEKWA

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVATIKA
Zvichaititika kunemhuka: Kukanganisika kwemhuka nekuda kwe ruzha kuveneka usiku kwe michina uye magwenya emagetsi.	ZVINOWONEKWA	<ul style="list-style-type: none"> Mukuru we basa iri achaona kuenodeswa kwe mhuka kudzvimbo yakanaka. Mukuru webasa achashanda ne weNational Parks uye pachave nemunhu ano gara aripo ano zira nezvemhuka nekuti pangangove nedzimwe mhuka dzinokuvadza <p>Kukosha kwe miti, maruva nemhuka:</p> <ul style="list-style-type: none"> Ndzvimbo ndzine maruva nemiti ndzofanira kuchengetwa zvichikwaniska.. Uyero miti ne maruva acha chengetedzwa Vasevenzi ngava chenjerewo nyoka nezvimwewo zvine jodzi. 	<ul style="list-style-type: none"> Mukuru we basa iri achaona kuenodeswa kwe mhuka kudzvimbo yakanaka. Mukuru webasa achashanda ne weNational Parks uye pachave nemunhu ano gara aripo ano zira nezvemhuka nekuti pangangove nedzimwe mhuka dzinokuvadza <p>Kukosha kwe miti, maruva nemhuka:</p> <ul style="list-style-type: none"> Ndzvimbo ndzine maruva nemiti ndzofanira kuchengetwa zvichikwaniska.. Uyero miti ne maruva acha chengetedzwa Vasevenzi ngava chenjerewo nyoka nezvimwewo zvine jodzi. 	ZVINOWON EKWA
Zvichaijika padzimbo dzakachengetedzwa: Zvisina kugadzirirwa kana kusatevedzena zvinodiwa (paspillage kana kutadzika kwe cofferhamu) zcinogona kukanganisa zviwanikwa zviri murwizi zasi kwe Dhamu reKariba.	ZVAKAPPA PAKATI NEPAKATI	Zubatana ne vano chengetedza zviwanikwa (wildlife conservation authorities) kuno batsira.		ZVINOWON EKWA

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVATIKA
Magariro evanhu	Zvichaitika ku vashanyi: Kugadzirwa kwedziva rino rasirwa mvura kucha chinja zvaranga rakaita, zvonoti (magwenya emagetsi, mota, cofferdhamu, pombi ruzha) zvinobva kumichina yekuvaka, vashanyi vachawona nekudzwa zvakanga zvisipo.	ZVINOWONEKWA • Mukuru we basa iri (Project Developer) ano sungirwa kuzivisa zvaka nyorwa paNotice Bhodhi nguva yaacha putisa madharameta. • Mukuru we basa ano sungirwa kubatana pamwe ne maTourism operators. • Kukzikisa wo ruzha	ZVINOWONEKWA • Mukuru we basa iri (Project Developer) ano sungirwa kuzivisa zvaka nyorwa paNotice Bhodhi nguva yaacha putisa madharameta. • Mukuru we basa ano sungirwa kubatana pamwe ne maTourism operators. • Kukzikisa wo ruzha	ZVINOWONEKWA • Mukuru we basa iri (Project Developer) ano sungirwa kuzivisa zvaka nyorwa paNotice Bhodhi nguva yaacha putisa madharameta.
	Varedzi vehove vano rarama neizvozvo: Nekuda kweku dhuwutsa mudharameta uye kutemwa kwemiti uye kubvongozeka kwe mvura, hove dzicha netsa kubata.	ZVINOWONEKWA • Kuchengetedza zviwanikwa zve mumvura. • Kuchengetedza hove vachibatsirana ne NGOs uye Hurumende. Uye kubbadhara vanenenge varasikirwa.	ZVINOWONEKWA • Kuchengetedza zviwanikwa zve mumvura. • Kuchengetedza hove vachibatsirana ne NGOs uye Hurumende. Uye kubbadhara vanenenge varasikirwa.	ZVINOWONEKWA • Kuchengetedza zviwanikwa zve mumvura.

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVAITIKA
Kuwanikwa kwe mabasa:	ZVAKANAKA	<ul style="list-style-type: none"> Mukuru we basa iri Project Developer, Engineer ne Muvaki vachatevedzera mitemo yevachatora pa basa. Mukuru we basa iri, Project Developer, achatora vanhu wekuZambia ne Zimbabwe, vakadzi, zvirema, vasina mabasa avakadzidzira, vakadzidziramalabasa uye vanamazvikokota munabasa avakadzidzira Vachatenga zvimwe zvezvavano sevenzesza munharaunda. Engineer ne muvaki vachapa mukuru we basa pamwedzi wega wega mamiriro evashandi we basa rinengeraitwa. Vachawongorora mashando ne kuona kuti zvinodiwa kuyitwa zvayitwa. Vese vachapindzwa basa zvicha buritwa mumu pepa nhau, mu malibraies, uye kuma hofisi aDA. Kuchava ne Hofisi yekutora vanhu pamabasa. 	<ul style="list-style-type: none"> Mukuru we basa iri Project Developer, Engineer ne Muvaki vachatevedzera mitemo yevachatora pa basa. Mukuru we basa iri, Project Developer, achatora vanhu wekuZambia ne Zimbabwe, vakadzi, zvirema, vasina mabasa avakadzidzira, vakadzidziramalabasa uye vanamazvikokota munabasa avakadzidzira Vachatenga zvimwe zvezvavano sevenzesza munharaunda. Engineer ne muvaki vachapa mukuru we basa pamwedzi wega wega mamiriro evashandi we basa rinengeraitwa. Vachawongorora mashando ne kuona kuti zvinodiwa kuyitwa zvayitwa. Vese vachapindzwa basa zvicha buritwa mumu pepa nhau, mu malibraies, uye kuma hofisi aDA. Kuchava ne Hofisi yekutora vanhu pamabasa. 	ZVAKANAK A
Kutengwa kwe zvinhu zvinoshandiswa	ZVAKANAKA	<p>Vanhu vemunharawunda uye venunyika dzakati poteredza nevamabhizimisi madoko ari pakati ne pakati uye makuru vachapiwa mukana wekutengesa zva wanogadzira kana zvichidiwa.</p>	<p>Vanhu vemunharawunda uye venunyika dzakati poteredza nevamabhizimisi madoko ari pakati ne pakati uye makuru vachapiwa mukana wekutengesa zva wanogadzira kana zvichidiwa.</p>	ZVAKANAK A

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVAAITIKA
			<ul style="list-style-type: none"> Mukuru we basa (Project Developer) acha wongorora ne kukoshesa kushanda kwevanhu. Vashandi ne vashandiwi vachashanda vachitevedzera mitemo yenyika yavanenge vachindira. Kana pane kusa gutsikana nemashandiro, vachatevedzera mitemo yenyika. Zvichemo zvevashandi zvicha tarisiuswa gore roga roga. 	ZVAKAIPA ZVISHOMA
Zvepabasa:	ZVAKAIPA PAKATI NEPAKATI	Njodzi uye kusevenza kusina hutano muvaki asingatedzeri, Occupational Health and Safety (OHS).	<ul style="list-style-type: none"> Mukuru we basa acha shanda naEngineer uye muvaki pakutorwa kwemabasa. Vasevenzi ne varidzi ve basa vachatevedzera mitemo yenyika kuti pano revedzwa pave paka tsvinda uye pasi ngakwadzisi. Pane vasina kubatwa zvakanaka pabasa zvino sungirwa kuwongorowa. Pamwedzi wega wega vasina kubatwa zvakanaka pabasa zvicha wongorowa. Gore roga roga maitirwo avanhu pa basa asina kunaka acha tarisawo. 	ZVAKAIPA ZVISHOMA

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVAAITIKA
Kukwirira kwe zvirwere zve jovhera (STIs) uye HIV/AIDS:	ZVIKURU ZVINO KANGANISIKA	<p>Vachairi vedzimota vano gona kutapukirwa nezvirwere zveHIV kanaSTIs kudarikika vanhu wozvavo vemuunharaunda. Vachairi ava vangango takurawo HIV kanaSTIs votapurirawo vamuunharaunda nevepabasa.</p> <p>Uyewo varume vane mari vanogonawo kuparadzira HIV kanaSTIs kuvanhu vemuunharaunda.</p>	<ul style="list-style-type: none"> • Vakuru vebasa vano sungirwa ku dzidzisa vashandi vavo neze kudzivirira HIV / AIDS • Kurambidza chihure kuvasevendzi • Kurambidza kutamba makasi. • Vasinga tevedzeri mitemo iyi vacha dzingwa basa. • Avo vachabatwa nemukondombra HIV/AIDS pabasa vacharapwa nekambani iyi. • Vakuru webasa vanofanira kuzivisa vanhu kudzivirira HIV / AIDS. • Vakabatana neNGOs vachadzidzisa vanhu nezve mukondombra. • Vakabatana neNGOs vachadzidzisa madzimai kuti vazvishandriewo. 	ZVAKAIPA PAKATI NEPAKATI

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVAITIKA
Jodzi mumigwagwa:	PAKATI NE PAKATI ZVICHENDA ZVAKAIPA CHAIZVO	<p>Kuwanda kwe michina ne dzimota kuno gonawo kuwuraya kana kukwadza vasevenzi nezvipfuwo.</p> <ul style="list-style-type: none"> • Vakuru vebasa vano sungirwa kunyora nekuudza vashandi kunyora nekuudza vashandi mitemo yebasa. <p>Izvi indizvo zvichatedzerwa:</p> <ul style="list-style-type: none"> • Kuisa michina inotaura kuti mota iri kupi irikuiteyi. • Mota nemichina iyi ino sungirwa kugara ichigadzirwa zvakana ka. • Kumhanya kwemota uye uremu hwezzainotakura zvino sungirwa kutaridzwa pamota. • Hazvibvumirwe kulkwidzavantu mumota dzebasa vasinga shandi paKambani iyi. • Hazvi bvumirwe kuchhaira kana kushandisa michina iyi waka dhakwa nechipi zvachochino dhaka. • Hazvi bvumirwe kushandisa mbozha runhare uchichaira mota. • Panokwanisika, ndzira dzino shandiswa dzino sungirwa kugadzirwa zvakana ka – kudzivirira tsiona. • Vanhu we munharaunda vano kurudzirwa kutaura zvichemo zvavo kuva tungamiri rebase iri. • Kuneyacha kuvvara kana kufa vacha bhadharwa kana zvakakodzera. • Kutakura michina kana zvinhu zvino rema kwazvo kuno sungirwa kubvumirana ne vanopa bvumo iyi. 	ZVAKAIPA ZVISHOMA	

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVAAITIKA
Dhamhu	Zvine ngozi paDhamhu: Zvine ngozi nejodzi paDhamhu ndezvizvi. • Kuchera mbwaro hwe Dhamhu; • Kusasimba kwebwaro hwe Dhamhu; • Kusasimba kwe kongiri inotakura mabimu; • Kutadza kuvhara għedhi kumusoro kweħova; • Kusapa ruzivo rwakkwana pauya kwemafashama emvura akawanda nekutadza kuvhara magedhe; ne • Kungo vhura mvura zvisina mwero zvichikodzera kusashanda zwakanaka kwema gwenya emagetsi.	N/A	<ul style="list-style-type: none"> Kuvakwa kwe dziva rino rasirwa mvura uye pano rasa mvura peDhamhure Kariba kuchaitwa kuchitevedzwa World Bank Safety of Dams Pazvinotevedzwa (OP/BP 4.37) izvi zvinoita kuti zvinodiwa zvivze zvakakkwana kuti vashandi vasango kuvara pabasa. Sezvinodiwa ne OP/BP 4.37 vana mazvikokota vakuazvimirira vacha sarudzwa kuwongorora kuti basa iei riitwe zvakanaka. Kurvakiridzwa kweDhammu reKariba kuda Kunyatsa wongororwa sezvino b'vumirwa neKariba Dam Emergency Preparedness Plan zvinowanikwa muZRA Kariba Dam and Reservoir Standing Operations Procedure re January 2013. Izvi zvino sungirwa kutevedzewanzve pamusorosoro. Parizvino Dhamu reKariba rinokosheswa chaizvo, sakha ngarigadzirwe zvine umhizha. VeZRA vaka wonakutti havagoni kushadisa magedhe matanhattu (6) nguva mumwechete. amagħwnya magetsi vasinga kwardzi bwaro hweDhammu vachagadzira rimwe nerimwe wachishandisa mamwe matatu. Kana magedhe aya akasagħadzirwa tichave nedambudziko remangwana. 	N/A

ZVIWANIKWA	ZVINGAGOYITIKA	KUWONGORORA	ZVINO GONA KUBATSIRA	ZVICHASAR A ZVAAITIKA
			<ul style="list-style-type: none"> • Zvinota sekuti Tractebel hydrology assumptions/calculations/ estimated impacts hazvina kutarisiswa zverparivino magwenya ari kuchamhembe uye ayo ari kuzoisoisa kumawodzanyemba kana zvirizvo zvinoreva kuti tino sungirwa kuvane yambiro yo kuwirira nekuyerera kwe mvura izvi zvino gadziriswa nelku shanda zvishoma nezvishoma pamaunits aya. Uyewo pamogonawo kushandisa cofferdam riri dzasi kwe rwizi. • Cofferdam rino sungrirwa kuve muEmergency Response Plan panguvu yapanenge pachishandwakudzivirira jodzi ku vashandi uyezve kuchengetedzw a kwezvwanikwa kana rika ita jodzi. • Nekuda kwekukosha kwebasa iri kana pakawana zvinokangansika zvino kurudzirwa kuti ZRA itore vanamazvikokota vakazvi mirira kuti vawongorore basa iri 	

Zvekupedzisira

Kana vanhu verudzinji vataura maonero avo pamisangano yavanengevaita zvavanenge vataura uye bvundzo yavo ichaiswa pamwechete muComments and Responses Report (CRR). Izvo zvinenge zvataurwa nevanhu zvvicha pindurwa neCRR uye zvicha turirwa kuZEMA neEMA kuti vawongorore.

Kana pane zvamunoda kutaura sunungukayi kuzvitumira kuvanhu ava:

ERM in South Africa:

Ms. Janet Mkhabela

Telephone: +27 21 681 5400

Email: janet.mkhabela@erm.com

Zambia:

Mr. Felix Chisha

Mobile: +260-974-074 384/ +260-963 258 535

Email: felixchisha@airtelzm.blackberry.com

Zimbabwe:

Mr. Oliver Manjengwa (Zimbabwe)

Mobile: +263 772 958 671

Email: olivermanjengwa@gmail.com

Ndapota maonero enyu **23rd Kurume 2015** asati asvika.

Paguva yeku sarudza zvichaitwa neZEMA uyeEMA vano gona ku dayidzira imwe misangano kana izvi zvika zoitika vanhu vacha ziwiwa zuva remisangano iyi zvichabuda mirirano cheESIA Report zvichatumirwa kuvanhu neZEMA uyeEMA.





Kariba Dam ESIA - Comment Sheet

March 2015

Should you have any queries, comments or suggestions regarding the Project, please don't hesitate to contact the ESIA team

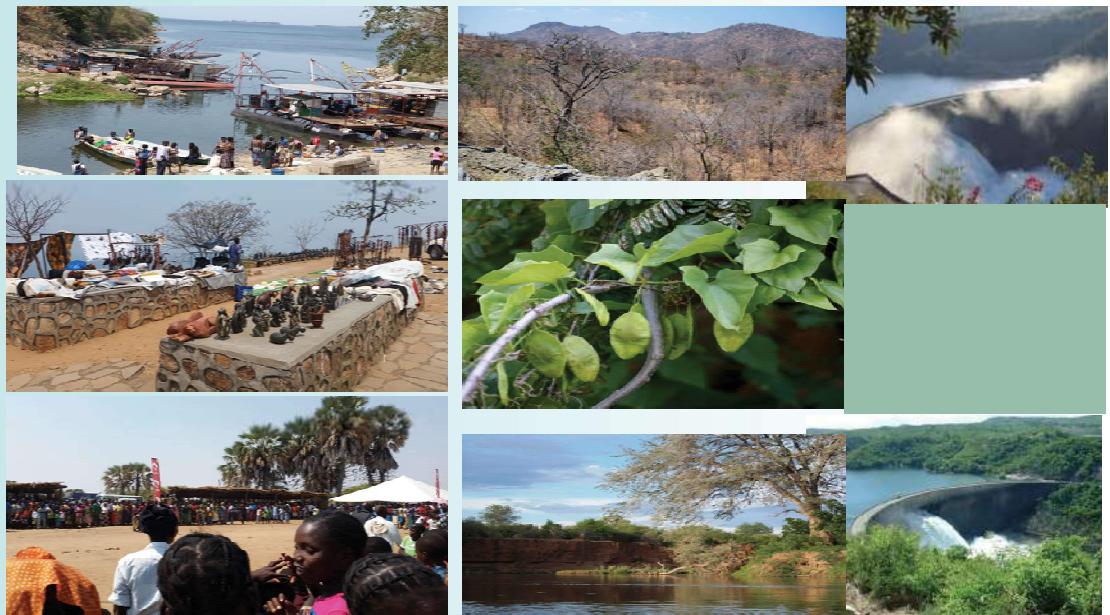
Return this comment sheet to: **Ms. Janet Mkhabela (South Africa); or Mr. Felix Chisha (Zambia); or Mr. Oliver Man-jengwa (Zimbabwe)**

Comment:

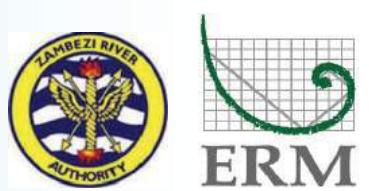
Title and Name:		
Organisation:		
Telephone:	Fax:	
Mobile phone:		
Email:		
Postal Address:		



Non-technical Summary – Tonga



Makani Yategwa Kuti Non-Technical Summary: Amba Kumilimo Ya DESIA Ati Kabelekwe Ku Damu Ya Kariba



Nkoizya Nchito Eyi

Damu ya Kariba ili a mulonga wa Zambezi akati ya chisi cha Zambia a chisi cha Zimbabwe. Damu ya Kariba ibede ma kilometre mwanda omwe a makumi otatwe (130 km) kulanga kumusanza wa kujwe ya dolopo ya Lusaka (Zambia) alimwi ma kilomita 280 kumbo lya nyika ya dolopo ya Harare (Zimbabwe). Damu ya Kariba ibelesegwa a ba Zambezi River Authority (ZRA), a kampani ka talika mu mwaka wa 1987 alimwi akujatilizanya alimwi akwelana kwamfulumende ya Zambia a ya Zimbabwe. A kampani ka ZRA kikajisi nguzu ya kulangilila a kwendelezya alimwi kuleta lusumpuko a ku mulonga wa Zambezi.

Ba ZRA bajisi muzezo wakuti ba botezye masena ambi ali mu a damu ya Kariba ategwa kuti plunge pool a spillway. Kwelana akuvuma wakazwa mu muswango ngolwajisi aba Zambia a ba Zimbabwe (mubuzuba bwa 24th November 2014 yakabede a ZRA Administration Block ku Kariba town), omom motwakaamba bwakuzulisha akujatishanya eyi milimo ya ESIA, oyu ESIA omwe ulelende kulolwa kutubela toonse tobilo tulanganya ashokwe alimwi anzinyama kutegwa bakainduluke mu makani aaya.

Inchito ya oyu ESIA kuyanda kubona zintu zibotu a zibyabi izyelende kuzwa kwiinda mukubotesya Damu ya Kariba. Nchenchencho, ba ZRA bayakuyanda kuti oyu ESIA akachitwe kwiinda mumilawo ya muchisi cha Zambia a milawo ya muchisi cha Zimbabwe kubatana ba zuminisyia kutolelela a milawo kuchilila zyitikabe muli ESIA. Kwiinda a milawo iyandika ku chisi cha Zambia a chisi cha Zimbabwe che bayanda, oyu ESIA ulachilila milawo a chisi choonse mbochizulwaa kuyungizya zyo bayanda ba African Development Bank, ba World Bank Group, ba International Finance Corporation (IFC) a ba Equator Principles. Ba ZRA bakasala kampani itegwa Environmental Resources Management (ERM) kuti ibeleke mulimo wa ESIA.

Busena Mbo Bubede

- Busena nko tuyanda kubelekela kuli buti?

Ziyeleywa

- Busena buya ku chinchigwa buti? Amikalile ya bantu yakuba buti nkaambo ka milimo eeyi?

Kupima

- Sena eyi milimo iya kuchincha busena obu? Naiya kuchincha, iya kuchincha buti?

Kukwabilila

- Na nchakuti iya kuchincha kapati, chinzi chinga cha chitwa kutegwa tuchezye ku chincha oku, na kuyungizya zibotu?

Zitikachitike munsi ya kumanizya milimo

- Hinzi hitikachale zya chitika munsi ya kumanizya milimo? Sena chiya kuba chipati na chisonto?

Zyibela Zyijanika Mukwiya Busena

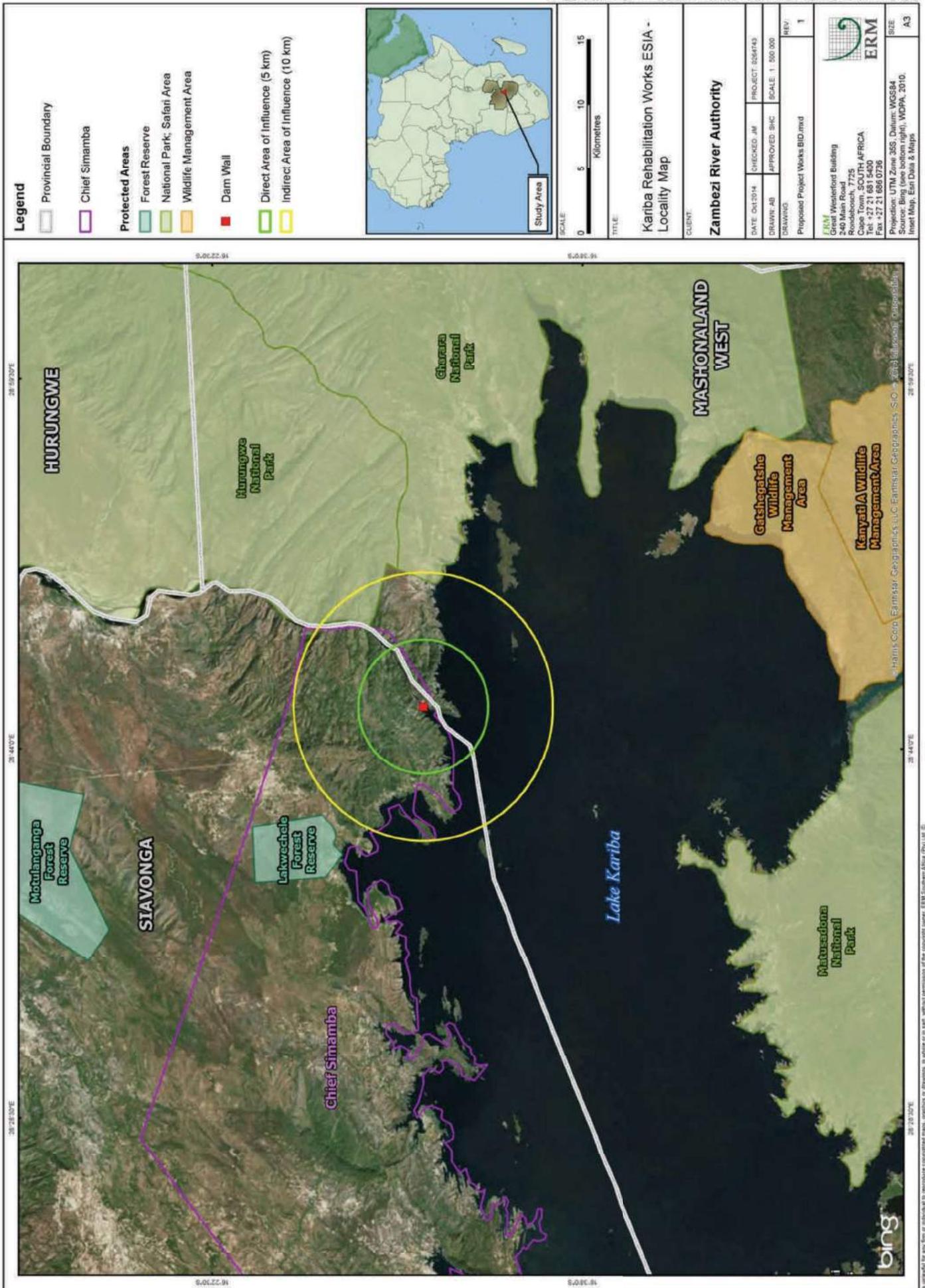
What is an ESIA Study?

Eyi ESIA nkuyandaula kwiya a kuzyiba mbotunga twajana bubi a buboto bujatikizya kushokwe, kubulonga, akukala kwa bantu a hinyama a menda ku chiindi notunakubekelana kubamba damu ya Kariba.

Oyu mulimo inga taulaligi kubula kumanizya oyu ESIA. Oyu ESIA ulelede kuchitwa kuchilila milawo ya muchisi chesu akuchilila milawo ya chisi choonse mbochizulwa ayo yaitwa ngo baita muchikuwa kuti 'IFC's Performance Standards'.

Milimo ya ESIA yalibamba kuvwila mibuyo ili yosano (5) ijatikizya ku milimo iyo iyandika kubelekwa. Eyi mibuzyo ya tondezegwa ansi awa mu left ansi awa.





Milimo

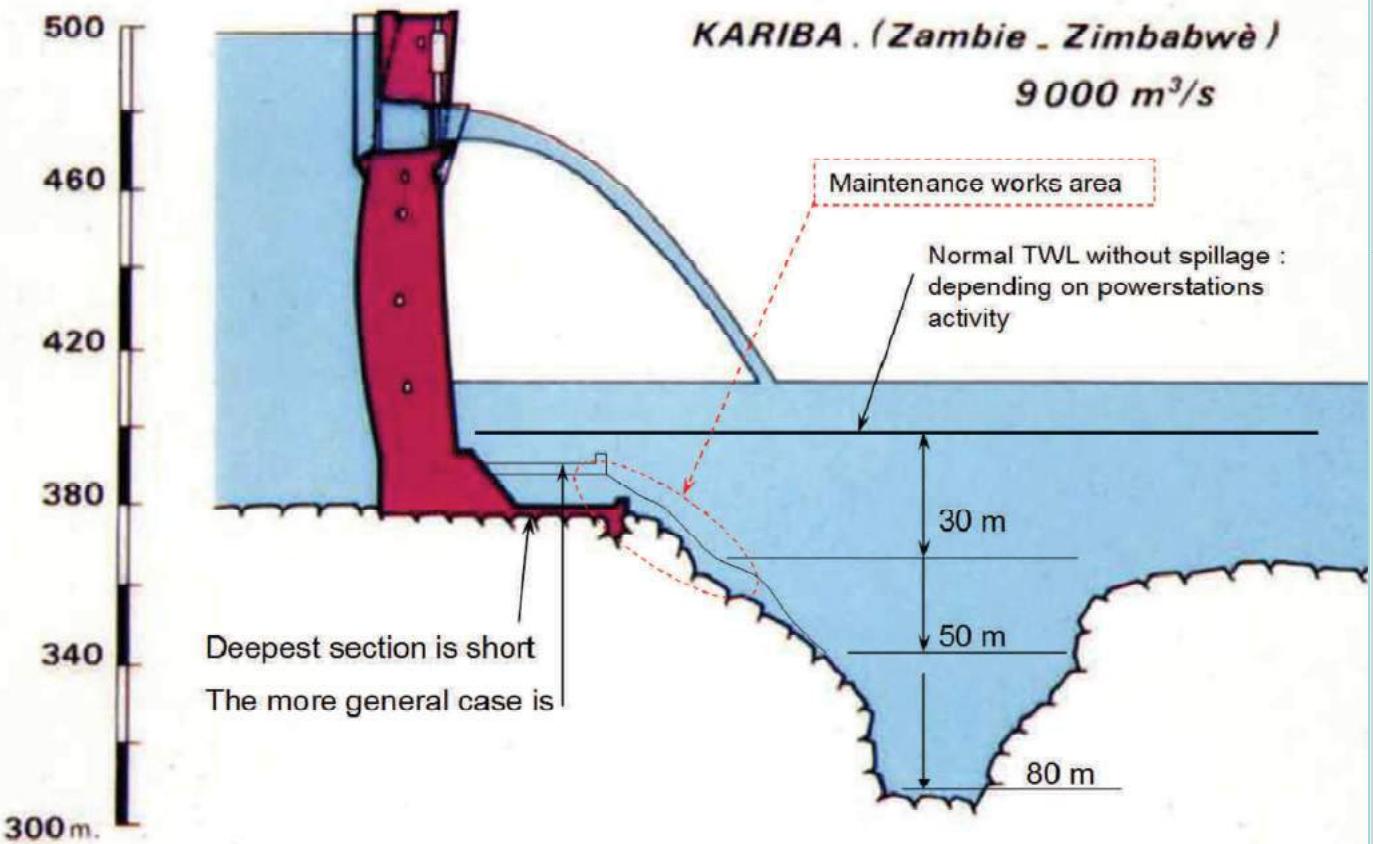
Damu ya Kariba iyandika kubamba na kubambwa kubusena bwitwa plunge pool aku spillway. Eyi milimo yatondezegwa ansi awa.

Kubamba Plunge Pool

Mukaambo kakuti meenda manji ayo aala kutika kumyaka minji yainda, nyika yanssi ya mulonga awo atikila meenda witwa kuti plunge pool yaaligwa kusika kukubala 80m kwinda asimpila meenda amubone. Nchechicho echo chipa kuyeya kupati alusumpuko lwa eyi plunge pool ku mazuba aboola kumbela. Muchiindi chakuzula kwa milonga (mainza) echo chinga chapa kuti chitole chiindi chipati cha kujalula meenda mbuli mbo mubona muchipekupeku cha ansi awa.

Mu kuyandaula kuli kwabilila a kusya kuli eyi plunge pool, maya mazuba inga chapa kuti lubumbu lutetete, cha jana kuti kube kukomezya eyi plunge pool kusika mu masena ali koonse kobile kumbali ya mulonga kuchilila kuunka mulonga. Cha janwa kuti kusha akupanga kabotu eyi plunge pool ina kupa kuti meenda anakweenda kuchilila mulonga alimwi chinakupa kuti meenda kayachuma abusena antomwe obu mbo chibede achiindi chino.

Mbuli Plunge Pool Mbo Ishidwe (80m) Ku Myaka 50 Yainda



Kubamba Plunge Pool (Cont.)

Eyi plunge pool iya kukomezyegwa kwiinda mukusya ansi a mulonga. Tuya kubelesha tupata a minshini aku komezya eyi plunge pool. Eyi nyika ina kushigwa ansi a mulonga kuzwa ku busena obu buna kusowegwa a busena buli ama kilomita 2.5 kuzwa ku busena bu chilila ku chibela cha mulonga wa ku Zambia. Milimo yaku yaka iya kutalika munshi akumanizya ku pompolola meenda yoonse itegwa ya plunge pool.

Kuli milimo imbi ija tikisya ku kubotesya ili mbuli;

- Kuyaka kubotesha mugwagwa kusika a busena obu bu belekelwa;
- Kuyaka buyake bwa cofferdam kumbele ya plunge pool alimwi kuba amaanda a kupangila magesi;
- Ku pompolola meenda onse akwasowa kumbela kwa mulonga wa Zambezi;
- Ku pompolola kwa meenda aya kuzwa kuli ayi plunge pool kuya ku kutolelela paka milimo ikamane
- Kuya kubakusya akubika konkili mukati mu busena bwa plunge pool.

Kubambulula kwa Plunge Pool Mbuli Chitondezyo



Kubamba Plunge Pool (Cont.)

Chibotu kuzyiba kuti obu busena kuna kubelekelwa eyi milimo ili buyo munsi ya lubumbu ya damu, milimo eyi yabuyake inga ichitwabo chiindi cha chilimo/echo chiindi taaku kujalula meenda. Echi chipandulula kuti chiindi cha kubeleka eyi milimo inga yabelesyagwa biyo mu myenzi eli 7 (May – November) munsi yahezyi kunakuba kugusya zyibelesyo zyoonse a busena obu bubelekelwa kutegwa ku chale chiindi cha myenzi ili yosanwe (5) nkaambo che chiindi meenda najaludwa. Eyi inchito ya kuleta akugusha zyibelesyo iya kutolelela mu myaka ili yosanwe (5). (Kubambamika milimo yakuyaka plunge pool yatondezyegwa ansi).

Kubambamika milimo yakuyaka Plunge Pool



Milimo yakuyaka Spillway

Eyi spillway ili ku lubumbu ya damu ilijisi mwiinda meenda muli six (6) moonya muli milyango eyo ilangide kuunka meenda mbuli kutondezyegwa ansi awa. Eyi milyango ilgwashilisha ku yusha meenda kuti yazulisya mu damu muchiindi cha mvula inji. Kuchililia achiindi chilafu chainda, lubumbu lujata eyi milyango eyi kuzyimba chechipa kuti eyi milyango kaitabeleki kabotu. Nakuti eyi milyango yafwasa inga yapo kuti lubumbu lwa damu yoonse mupenzi. Lubumbu lujatikisha milyango iyandika kubamba alimwi kuyandika kubika a mulyango unyowani wakubelesha kuti kwaba zintu zya mulubilo na emergency.

Kubotesya eyi milyango ili chisambomwe (6) twelede kusanguna kupanga cofferdam. Eyi ika-pangwa pa harbour uko kuti kayandikwe kupangwa slipway. Mulyango omwe unakumana mwa-ka omwe kuti umanizigwe. Chiyakubweza myaka ili chisambomwe (6) kuti milyango yoonse imane. Oku kubotesya kwa milyango yoonse eyi iyakubotesyagwa bakumana kubotesya kwa plunge pool na munsi ya kubotesya plunge pool. Imilimo Ya Kubamba Spillway Oyu Ili Mbali Bobu:

- Kubotezya mugwagwa uya ku Zimbabwe District Development Fund Slipway a kubotesya ngomunya oyu slipway.
- Kupanga kwa cofferdam a kwiibika ameenda akwitola ku milyango kutegwa chisinke eyi milyango kutegwa ku bantu kababelekela muyumu.
- Kupanga kwa emergency gate eyo inga yagwasilisya kujata oyu mulyango kuti kwa penzi.

Sequencing of spillway construction activities



Kwitwa Kwa Bantu

Oku kwitwa kwa bantu ba chisikuti bafane mbali twachilila milawo ya chisi cha Zambia a chisi cha Zimbabwe amilawo ya achisi choonse mbo chizulwa. Abobo, kwitwa kwa bantu boonse twapanga chuchilila milawo ya ESIA itwa kuti Scoping, Draft ESIA alimwi a kuzyi bya bantu kuzuminizibya na kukasigwa kwa milimo eyi. Zibela zya milimo eyi zyatondezegwa ansi awa.

Kubambamika Milimo Ya Kwitwa Kwa Bantu



Mu chiindi cha eyi Scoping zyakachitika ili mbuli bubo;

- Twabika chizyibyo mu ma newspaper ya chisi cha zambia
- Kubika hizyibyo mu masena aindene indene (mu Kariba a mu Siavonga Districts);
- Kupa tu bbuku twitwa Background information Documents (BID) tuli 1,000;
- Kulembya kwa bantu bajatikizya eyi milimobetwa kuti Interested and Affected Parties (I&APs);
- Kupanga kwa website ya milimo eyi (<http://www.erm.com/KaribaDamESIA>);
- Twalijisi miswangano ya ba masololi alimwi amiswangano ya bantu ba hisi;
- Twalemmba mapenzi a mibuzyo ya bantu mu nkamu itwa kuti Stakeholder Issues and Concerns Report;
- Twakapa oyu Scoping Report (Zambia) a Project Prospectus (Zimbabwe) ku basololi.



Zyiguzigwa Mu Milimo eyi

Echi chibela chibandika a bubyabi bunga bwajatikizya bantu bakalila awfawfi a milimo eyi koina kubelekela. Zyintu zyotwa jana zyibambinwe bobu:

- Kupandulula bu byabi a bubotu bunga bwa janika.
- Kupima zyibyabi a zyibotu zinga zyajanika na zyinga zya zwamo.
- Zyintu zinga twachita kuchezya bubi na bubyabi bwa janika.
- Mapenzi masyonto anga achala kunze kwa kumanizya mapenzi mapati pati.

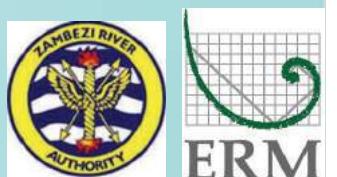


Table 1.1

Zyiguzigwa Mu Millimo Eyi

BUSENA	ZYINGA ZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGA ZYACHITIKA MUNSI
Busena	Ujatiliyya Bwa Meenda: Oku kusunga kwa meenda na kutatila meenda inga chalet mapenzi ku zinyama na zilengwa a Leza ku nselelo ya mulonga.	BU BYABI BUPATI	<ul style="list-style-type: none"> • Ba Project Developer abo banakubelekela a milimo eyi baledede kubonakuti alya meenda aunka kumselelo alede kuba bwabede jyonse nakutolelja tayelde kucheya kwiindilila a $440\text{m}^3/\text{s}$. • Tulonga longa tusyonto onto tujatiliyya natutila mu damu bailede kutuimpanya kwiya kutala a danu. • Kuchinchana na kuipanya kwa ibela zhelyed kuba mambali ya meenda na kutala (right angles) kwelede kwi pana kutegwa tulonga katwizya meenda kabotu. Alo ma span bilijiyelede kwabikwa na kubikwa muntamu yomwe ya kutala. • Kuzzabukilwa kwa chiindi chilafu olo kwa chiindi chinini cheledwe kuperawa musena mupati kutegwa meenda manji kainda kabotu. • Achizabukilo cha meenda eechi chabambwa kutegwa mugwagwa uzuminisya tulomga kuiinda kulede kutolelele mbuli bubambe bwa Leza. (Otu tulonga na tumeenda tusyonto syonto twitwa kuti tusyonto syonto twitwa kuti twa mukati nkambo tulagwashilisywa tubela twa mukati. 	TUSYONTO

BUSENA	ZYINGA ZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGA ZYACHITIKA MUNSI
				BUBYABI BUSYONTO
	Kujatilisha ku Meenda: Kugusya meenda a mu plunge pool, kubika kwa cofferdam, a kubotesya kwa slipway a kupwaya mabwe kubelesya tupata kuyakupa meenda kunselenyo ya damu kuba a doti, nkaambo kuti bulongo buti kajanke mu damu omu buyakuvula nkaambo kamilimo eyi. Mboli kuswena kwa bulongo burji achiindi choomwe, izya ku yakila mboli cemennit, mafita endeleyza ibulo, a zyezyo zinga zyawinda mu meenda kutazyiba na ka mutualibambide.	BU BYABI BWA AKATI	<ul style="list-style-type: none"> Taaku kusowa idooti a fwafwi a damu. Idootilinakusowekwa mu masena akasalwa. Meenda ati kapopolowe mu plunge pool tailede kubwezesya idooti linji, tailedede kwindilila 15% mbuli dooti lya muzuba oonse. Takuya kubi kubambya myotokala a hibulo na minshini olo kubika mahuta afwafwi a mulonga. Inzila yakukwabilila kunyonyona busena nakuti mahuta awida mu meenda olo anyika ehiya kulembwa kabotu akuciliia. Misena yoонсе iti kabelelelwa kuya kuba kubamba na kuyibotezya bakumanizya kubelekelawo. Misena ya milimo yoонсе jelede kwandanya meenda a mvula a meenda akubolesya a chilawo echii. Mulimo wa kuyaka slipway, yeleded kucheseya kunyonyola nyika ila fwafwi a damu. Nakuti nyika ila afwafwi a damu kwawida mahuta, nkusha akuyola bulongo akuya kusowa kulamfiu. Kuchiindi chakuyaka, meenda anakupimwa kubona pH, EC, TDS, temperature, turbidity a oxygen nsondo a nsondo. Achiindi cha kupanga plunge pool, meenda anakupimwa kumbali a mulong'a atamu ihili 200m, 500m a 1km kuya ku unka meenda na kunselenyo. Azymbi zyinakupimwa mbuli Sulphates, Chlorides, Calcium, Magnesium, Sodium, Carbonates/Bicarbonates, Nitrogen alimwi a Phosphates. 	

BUSENA	ZYINGA ZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGA ZYACHITIKA MUNSI
	Kunyonyoka Kwa Bulongo: Kutema kwas hisamu a kusenya kwa bulongo aku belesya kwa tupata inga chapa kuti bulongo bunyonyoke.	BU BYABI BU SYONTO	<ul style="list-style-type: none"> A mujane inzila yakucheha kunyonyona bulongo a busena mbomu belekelawo. Mwaliyakila olo mwabelesya bwizu kupanga fence kutegwa i doti kalitanjili mu meenda. A mukwabilile mholo zyoonse kutegwa kayitanjili doti a bulongo kuti kabucheya Na kuti meenda mu plunge pool aba atombe kapati, kuna kuba kulindilila paka tombé na doti iyakalila aansi amane nomutolelela. Eyi doti tayelende kwindilila 10% lya tombé na doti lili kunselen lya mulonga, Bukwabililo a cofferdam yaledé kupangwa azyibelesyo zhitaligwi ku meenda. Kuyozya meenda ayo yawida mu mulonga alimwi taku kuyaka a busena buli a fwafwi a meenda. Bu kwabilili bwa kazra bulongo kuti bunyonyoke bulelede kulangwa Iyoonse a nsondo a nsondo muchindi cha mainza muchindi cha buyake bwa damu na amilimo ya damu alimwi nakuli zyanyonyo ka mulelde kubamba, 	BU BYABI BU SYONTO MANINGI
	Izyijatikiza Abuumi Bwa Zilengwa a Leza Meenda: Iswi azinyama zya mu meenda ezyo zyitikabe a fwafwi nobana kumba zyi ya kufwa	BU BYABI BWA AKATI	<p>BU BYABI BWA</p> <p>Kupwaya Malbwe A Tupata:</p> <ul style="list-style-type: none"> Kupwaya mabwe a tupata takwelede kwindilila a 100 kPa ayalo ayo mabbwe apwahigwa tayelede kwinda a 13mm/s. Inswi zyoonse ezyo lina kufwa iyelede kubwezegwa mpona na muyanda kulya Kupompola kwa meenda mu plunge pool kuya kupako ba mid-Zambezi River fisheries resources.baya kuba a chiindi cha kalanganya nakwiya kuti kakuli zinyama zimbi zyjanika a plunge pool. 	BU BYABI BU SYONTO

BUSENA	ZYINGA ZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGA ZYACHITIKA MUNSI
	Buumi Bwa Zinyama Zya Mushokwe: Inga zyazwa mukunyonyona kwashokwe omo mukala zinyama nkaamblo kwa milimo eyi ina kubelekwa (mbuli kutema zyisamuaku komesye mi gwagwa) ku zyisambi aku malubaluba.	ASYOONTO MANINGI	<ul style="list-style-type: none"> Kuya kuba kusala muntu ujisi Iwiyi luptati ku kwabilila shokwe kunyonyoka. Inchito ya oyu muntu nja kuzuzikasya na kushoma kuti imilimo yoonse inyonyna shokwe yacheya. Abo boonse banakubeleka muli oyu milimo haya kuyisigwa bwa kubamba shokwe rkaambo masesna manji anakubeleka milimo eyi zijanikamu busena bwa fulumende. Ba na kulangilila milimo oyu bayakusala busena kabotu mo bana kubelekele mbuli kwa kubika minshini, kwa kupakinga ma motokala a kwa kusida zimboozi. Aya masenaaya kubambwa akutondezegwa mwakwiinda kukazya kwiiinds kutede 	ASYOONTO MANINGI
	Bumi Bwa Zinyama Zya Mushokwe Izyo Zikwabililwa Amfulumende: Kukonga zi nyama ezyo zikala a fwaifi a busena uko kuna kubelwelwa kwiiinda ku choongo chizwa kuma mootha, amagezi, a ku hula kwa ma mootha.	BUB BYABI BU SYOONTO MANINGI	<ul style="list-style-type: none"> Ba Project Developer bayakupanga inzila yak ugwasilisya ezi zinyama. Ba Project Developer bayakubelekela antomwe abantu balanganya zinyama akuyandaula muntu oyo umakwifigwa kuti kuyandikakugwasilisya zinyama. Ma nambala a muntu oyu boonse babelede kabajisi alimwi eyi njomunya eyi nambala yalede kujanika akuyisya bantu akutalika na kumatalikilo ya Iwiyi lwabo. <p>Kuziba zilengwa a Leza ezyo zila gwa amfulumende akizisenya kuzitola ku busena bumbi. Zinakuba na zinakwedelesyegwa bobu:-</p> <ul style="list-style-type: none"> Masena oonse omo mujanika zilengwa a leza zitajaniki janiki aledede kuleyegwa na kwaleyana inga mwakwanisy'a. Zinyama azi samu zyoonse izinga zyajanika munzila ya milimo eyi zilelede kugusigwa a kuzitola ku busena bukozya na kozjanwa. Bantu baledede kubazibya kuti oku ku mbele nkomya inga mwawswanga zinyama muledele kubambila (ndiza mwati kuli nzoka mu busena omo muyandika kubamba). 	BUBYABI BU SYOONTO MANINGI

BUSENA	ZYINGA ZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGA ZYACHITIKA MUNSI
Kujatikisyia Ku Busena A Bukwabilila A Mfulumende:	BU BYABI AKATI	<ul style="list-style-type: none"> Kuya kuba kebelelekela antomwe a tunkamu tulanganya a zilengwa a leza a kutuziyibya mbuli inchito mboyenda alimwi akutubuzya mbo tunga twabeleka kabotu mulimo oyu. 		BU BYABI BU SYOONTO MANINGI
Na kwachitika zintu zye tutalibesi na ntende mbuli mafuta kutika ndi za cofferdam yafilwa ku beleka inga ya leta kunyonyola ku masena ayo akwabiliwa amfulumende mbuli shokwe akujaya zinyama zjanwa ku nselelo a damu.	BU BYABI BU SYOONTO MANINGI	<ul style="list-style-type: none"> Ba Project Developer bay a kuba a busena mbo banakulembe na zyebana kuchillila mbuli milimo mbo ina kwenda. Boonse abo bableka aba tourist bay a kupegwa bwe ndelezi bwa milimo mbuli. Mboyi bambidwe na mboyelede kwelezyegwa. Kuyandaula inzila na mizezo ya kuyozya choongo alu suko. 		BU BYABI BU SYOONTO MANINGI
Bukalile Bwa Bantu	Zijatilizya A Tourism:	Milimo ya kupanga plunge pool iya kuchinchha busena na kuboreka kwa busena boonse mbuli zyoongo zya mamotokala, cofferdam, etc. Eechi, chiyakupa kuti bantu (ba tourist) kuboola kuboona busena mbobulibonya.	<ul style="list-style-type: none"> Zyonse zye babale na zyebakalya basikwiya ziya kuchililwa 	BU BYABI BU SYOONTO KUSIKA KU BU BYABI BWA AKATO
Bumi Bijatilisya A Ba Sikakujaya Insvi:		Zyalitondezya kuti nkaambro kwa milim eyi antomwe kwakulema zisamu akulisha tupata meenda kuya kuselole aya kuba atombe na doti chechiya kupa kujaya kwa inswi kuuya ansi.	<ul style="list-style-type: none"> Inzila yakulangilamo inswi mbozi nakujatwa kuselole ziya kuchilila. Na twabona kuti inswi zjatigwa kuselole zya cheya ba mfulumende baya kubelelekela antomwe aba atu nkamu tumbi kuyandaula abp batikajanike muli mpezi iya ba zeli nabajaya inswi. 	BU BYABI BU SYOONTO KUSIKA KU BU BYABI BU SYOONTO MANINGI

BUSENA	ZYINGA ZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGA ZYACHITIKA MUNSI
	Kupanga Milimo:	CHIBOTU MANINGI	<ul style="list-style-type: none"> Ba sololi ba milimo eyi baya kupanga nzila yaku njili na kutalkila inchito eyi. Ba sololi baya kupanga nzila yakunijisa bantu nchito ba ku Zambia a ba ku Zimbabwe, bama kaintu, bamasankwa, balema, baide a ba taide. Ba sololi baya kupanga nzila ya kuula zintu kubena chisi eyo zye battakozi kuula kumbi. Ba contractor ba nakulemba mazyina a bantu boonse ba kanjila nchito akutondezya ba solozi. Nchito zyoonse zyiya kwambilisigwa kwinda ma newspaper, mu ma library, mu ma office a ba district mu zisyi zyokuno. Ba contractor baya kujandika kujana busena obo mbo ba naAkubelasha mbuli ma office a kujaninawo na kwakutalkila nchito. Takunakubi kubaddala a kutilika nchito. 	CHIBOTU MANINGI
	Kujatilia Ku Myolo Na Kuula Zintu Zi Nakuyandika Kuli Project N Nchito Eyi:	CHIBOTU MANINGI	<p>Tu kampani tусyontona a mapata baya kuba achiindi chakubwezako chibela na kulizya zi na kuyandika kuli project eyi bazuminizigwa.</p> <ul style="list-style-type: none"> Ba sololi balombwa kupa malonda na business ku bantu ba mu Zambia a mu Zimbabwe. Ba contractor baya kuba amazyna ya bantu abo bayanda kuchitta malonda (business) a eyi project Ba sololi ba nakupa muntu a muntu uyanda kupanga malonda na business a mbabo mbuli mbwa nakukwanisya. Kuna kulangilila bwakula nzintu enzi akulemba report lyoonse kwa inda mwenzzi yotatwe (3 months). Kuyisya bantu bakhende mu chisi omu bwa kupanga business, kuvwila ma tender a kulemba ma invoice. Zyoonse zi na kuyandika kuulwa ba na kwambilisya (advertised). 	CHIBOTU MANINGI

BUSENA	ZYINGA ZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGA ZYACHITIKA MUNSI
Kujatilisya kuta komunisy na kubelekela mu masena a teleede: Ku kubelekela mu masena a teleede nkambo kakuti ba contractor tiba chilila izilembidwe mu national standards for Occupational Health and Safety (OHS).	BU BYABI BWA AKATI	<ul style="list-style-type: none"> Ba sololi bay a kwinduluka mu ma zyina a kubona bat i kayandike a kubweza mbali muli project eyi mbuli mbo chiba ku milimo ya tender. Ba kunjisy a nchito balelede cu chilila milawo ya chisi cha Zambia a milawo ya chisi cha Zimbabwe. Ba sololi ba nakupa milandu kubantu abo batana kuchilili milawo ya babeliesyi. Ba sololi bay a kupanga nzila yakelesyi baba a chiindi cha kulilizyanya na kulichaba takomarisya. A mwensi a mwensi, ba sololi a bantu babo ba nakukala ansi kutegwa bajana muzezo ku bantubajisikuli lizwanya. A mwaka a mwaka ba sololi a bantu babo ba na kukala ansi a kubona kuti mpenzi lichiliko na lyamana. 	BU BYABI BU SYOONTO	

BUSENA	ZYINGAZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGAZYACHITIKA MUNSI
	Kuvwula kwa malazyi ajanika na azwa mu mamambe (STIs) alimwi a kuyungizizya alimwi sikalileke (HIV/AIDS): Abo bannutekenya bazya myootokala zya kulafu mbi bajanika a bulwazi obu maningi alimwi mbo nya mbi bajanika mu bumambne kuli koonse ko bawunka eecho chechipa kuti kababweza a bulwazi obo. Babelesi basankwa banji abo bakuti balahola mali manji mbi bajanika n ambo bayanda bu mambe mu musena mobakede eecho nchechipa kuti kabatambula a kupa obu.	BU BYABI BWA PAKATI	<ul style="list-style-type: none"> Ba sololi bay a kupanga babelesy i babo eecho chitwa kuti HIV / AIDS Prevention Programmes eeho china kwamba a kukwabilila ambo eeled eulisunga naulinjisi obu bulwazi bwa sikalileke (HIV/AIDS). Eyi milimo taina ku zumizyi babelesy maka maka abo bazwa ku zisi zimbi na Kumasi ambi kujanwa miminzi na kweenda chende ende muninzi. Kupanga milawo eyo yeledwe kuchillilwa ku babelesy boonse a kubaisya. Eyi milawo taina kuzumizyi mbuli kubba, bumambe, njuka, kufweba lubanje a kunwa bugogo anchito, a kulwana. Eyi milawo yabukale bwa babelesy yeledde ku chililwa kuli oonse contractor. Oyo contractor utana kuchillili eyi milawo uya kutandwa. Contractor uledele kajisi inzila zibotu ezyo zya kusungilamo bantu na babelesy abo bajisi bulwazi bwa Sikalileke (HIV / AIDS). Contractor uledele kajisi inzila yak k\uti babelesy kajana mipila (condoms) kusankanya a mipila a chisimbi (female condoms) ku busena oko ko banakukallia. Contractor kubelekela antomwe azibbadela alimwi ama NGOs uledele kwiya bwa ku isya bantu zya bumambe alimwi mbuli malwazi a Sikalileke a malwazi janika mu bumambe mbwayambulkilwa na mbwayenda kuzwa ku muntu a muntu. Contractor kubelekela antomwe ama NGOs uledele kuibikila mano lunguzu zya bamakaintu bwa kulisunga a kulikomanisyua ku kwabilidwe, a bwa kubebesya mipila (condoms) ya basankwa alimwi a yabamakaintu. 	BU BYABI BWA PAKATI

BUSENA	ZYINGA ZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGA ZYACHITIKA MUNSI
	Kujatilisya Ku Ntenda Ya Mugwagwa: Ntenda ya mu mugwagwa ku bantu a zinyama inga zyavula nkaambo myoota zi na kwend mu migwagwa zi ya kuvilla	BU BYABI BWA PAKATI KUSIKA KU BU BYABI BUPATI	<ul style="list-style-type: none"> Kuya kuba kulemba myootokala zyoonse zya milimo eyi mbo zi na kweenda alimwi a minshini yoonseabobo boonse ba namutekenya ngo ba na kuchilala. Eeyi milimo inakweenda boobu:- Myootokala zyoonse zya mumulimo oyu ziya kubikwa tuminsini twakupinmaya kubona myootokala mbo zi na kwend a mana abo ba simutekenya batana kuchilila milawo ba na kubekwa kuchilila milawo ya inchito. Myootokala ezi zilelede kubamba kabotu alimwi zilelede kazilangwa na kazindu kulangwa langwa na zyelede kuti kazitajisi limpenzi naliba lyomwe. Kulemba mbuli myootokala mbo zyende kulunduka a chiindi nezyalongela olo nezyitana longela maniringi maningini migwagwa ya bantu. Takuna kubi bantubatali mumilimo oyu kutanta mumyootokala ezi. Takuna kubi kubellesya ma foni nomwenzyanmyootokala. Kwelede kubambaya migwagwa eyo yoонсе yanyonyoka ibelesya bantu boonse kutegwya myootokala itakanyonyoki. Bantu bayu kupegwya nguzi zya kuboola kuli lizyanya mbuli mbo banakwezya kuti tiya ba komanisya. Kupanga inzila ya kubbadala kuli babo ba lichisa na kufwa nakuli kulimbwa ku myootokala ya project evi rkaambo ka kutenza kabotu. Kuna kuba kulombela iyo nguzu zyakwenzya minshini impatimpati kuli babo ba pa nguzu kamutana talika kwezya a mugwagwa 	BU BYABI BU SYOONTO

BUSENA	ZYINGAZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGAZYACHITIKA MUNSI
Kujusunga Kwa Damu	Kujatilizya Mbuli Damu Mbo Ibede:	N/A	<ul style="list-style-type: none"> Kubamba kwa plunge pool a spillwaytuya kuchilila milawo iyanda ba World Bank Safety of Dams Guidelines (OP/BP 4.37) kutegwa eyi milimo ikabeleke kabotu. Mu kuchilila OP/BP 4.37 kuya kuba kusaba bantu ba chizyi maningi (experts) abo ati kabole kubona ezi zyetyu yanda kuchita na zili kabotu. Eyi milimo yoonse iledele kwiyeyela kabotu akwibika muli checho chitwa a kuti Kariba Dam Emergency Preparedness Plan iyo ijaniika muli checho chitwa ZRA Kariba Dam and Reservoir Standing Operations Procedure dated Jan 2013). Oku kuyungizya kwa milimo eyi iti kachitike kulelede kuchitwa cha kutalela. Eechi chiledele ku chitwa na kuyungizya nkaambo munubede nzila yaka kuleleka mulimo oyu. Achechino chiindi, damu ya kariba ilapanga magesi chiindi choonse (Base Load). Ino mukuyanda ku chincha eyo itwa kuti Kariba Dam Emergency Preparedness Plan, mizezo ya kuyeyakuchinchha kuti damu ya kariba kayipanga magesi kuchilila a yandika a chiindi a chiindi a chiindi (Peaking Plant) kwelede kulanganya kuti na inga yakwanisya eyi damu ya kariba. Ba ZRA balkazumina kuti ingga tababelesyi milyango yoonse kwakubula kunyonyola nyika ya damu (Foundation). Milyango yinga yabelesegwa kwa kubula ku nyonyona nyika ya damu rijo tarwe aalo atantene 4,500m³/s. Ba ZRA bazuminisya kutieyi milyango kuti tiyabambwa baya kuchesya iyo itwa kuti rule curve a chikelo cha 3.5m. nakuti eechi chabeleka inga tabakwanisyi kutolela kubeleka muntano ezi nkaambo mvula impatiinga yazuzya damu, tabalimbide kubeleka munzila eeyi. 	N/A

BUSENA	ZYINGA ZYACHITIKA	BU BYABINA BUBOTU	ZIYANDIKA KUCHITWA	ZYINGA ZYACHITIKA MUNSI
			<ul style="list-style-type: none"> Chikuboneka kuti aya manda manda ya kupangilamo magesi ku Zimbabwe aye yapangwa kulubali lwa Zambia tibakayabika na tribakalnganya a kuyushya meenda kunselelo. Eechi inga chakulanganya a kuchesya cofferdam. Milimo ya cofferdam ilyelede kwilanganya kuti eecho chitwa kuti Emergency Response Plan achiindi milimo neibelekwe kutegwakuti bantu a zinyama azi samu zyaba zi kwabilidwe na chaba kuti oyu cofferdam waliliwa ku beleka nkaambo inga chabija kapati kuli babo ba ngá bajanika mu busena obu bwa milimo a chiindi nechinga chaleka kubeleka.. A mulandu wakuti eechi chintu kuti chaliliwa kubeleka zinga zya nyonyoka nzinji, ba ZRA balombwa kunjisya baide na bazyibwene kabotu abo balibelekela kutegwa balanganya kabotu (expert) kaba langanya milimo pa chiindi cha kumazizya. 	

Kumanyizya A Kuunka Kumbela

A kuumanyizya kuswilila zyamba bantu, zyoonse mibuzyo iya ku buzyigwa twaibika muli eecho chitwa kuti Comments and Responses Report (CRR). Mibuzyo zyoonse ezyo ziya kubuzigwa zyiya kuvwilila mu ka bbuku ketwa kuti Issues and Responses Report (IRR) eeyo iti katumwe kuli ba ZEMA a ba EMA kutegwaa chikabagwisylisyee kujana inzila zibotu..

Na mulijisi zya kwamba olo mibuzyo amutume kuli baba bantu:

ERM in South Africa:

Ms. Janet Mkhabela

Telephone: +27 21 681 5400

Email: janet.mkhabela@erm.com

Zambia:

Mr. Felix Chisha

Mobile: +260-974-074 384/ +260-963 258 535

Email: felixchisha@airtelzm.blackberry.com

Zimbabwe:

Mr. Oliver Manjengwa (Zimbabwe)

Mobile: +263 772 958 671

Email: olivermanjengwa@gmail.com

A mutume ezyo zya kwamba na mibuzyo kabutanasikila buzuba **23rd March 2015**.

Mu chiindi ba ZEMA a ba EMA nobanakusala zyakuchita inga kwaba kuyanda kuti mwaba amiswangano a bantu alimwi. Na chaba bobu, kuya kuba kuzyibya bantu a miswangano ezyi. Ba ZEMA a ba EMA ba nakujisi ESIA Report a chiindi chakusala lusumpuko na nebanakusala zya kuchita.





Kariba Dam ESIA - Comment Sheet

March 2015

Should you have any queries, comments or suggestions regarding the Project, please don't hesitate to contact the ESIA team

Return this comment sheet to: **Ms. Janet Mkhabela (South Africa); or Mr. Felix Chisha (Zambia); or Mr. Oliver Man-jengwa (Zimbabwe)**

Comment:

<i>Title and Name:</i>		
<i>Organisation:</i>		
<i>Telephone:</i>	<i>Fax:</i>	
<i>Mobile phone:</i>		
<i>Email:</i>		
<i>Postal Address:</i>		



Annex B: 16

Meeting Attendance Registers

Meeting: NTS: DRAFT EIA FOR PROPOSED ZESA BILUMAFO OR KARIBA DAM SUPPORT INITIATIVES

Date: 05/03/15

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Telephone / Fax Number	Email Address	Signature
R Bulwer	Local Govt	Ex. Ass	7094613	rbulwer@zesa.co.zw	MIN. OF LOCAL GOVT PUBLIC WORKS & I P BAG 7755, CAR ZIMBABWE AT ZESA HOLDING (PVT) LTD RECEIVED BY: MANAGEMENT SERVICES DEPT. RECEIVED BY: TELEPHONE: 752116
P. Mjura	Zesa Holding	Reception	774545	pmjura@zesa.co.zw mujumbi@zesa.co.zw	RECEIVED BY: ACCOUNTS SECTION RECEIVED BY: 09448666666
T. Mano	Energy	Reception	791761 797956	imusende@gmail.com	RECEIVED BY: P. Mjura
P. Mjura	Zesa	C.E.O's office	0772 650 240	pmjura@zesa.co.zw	RECEIVED BY: MIN. WATER RESOURCES DEV DIRECTOR WATER RESOURCES C & MAR 2015
S. Mandoga	Environment Dept Worker	Director	7099247	msusajit@gmail.com	RECEIVED BY: S. Mandoga C & MAR 2015

Meeting:

Date:

ATTENDANCE REGISTER

Meeting:

10/08/15

MEETING AT THE DEPARTMENT OF WATER
ZAMBIA &

ATTENDANCE REGISTER

Energy ②

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Mr. CHARLES MULenga	NEPAKIN LTD OF ENERGY	ACTID 6 Director	251337 254686 0977659818	P.O Box 51254, Lusaka	clmulenga@meud.gov.zm clmulenga@gmail.com	MF.
Junet Mukonda	ERM	CONSULTANT	+27721 681 5400		Junet.mukonda@erm.com	MJ
Felix Chama K.	ERM	Consultant	+260974074384	Lusaka	felixchama@intellzg.com	
Saulo JEPPE	DEPARTMENT OF ENERGY	Asst Director TECHNICAL	254491 0974046888	Box 51254 Lusaka	Sauloje12@gmail.com	SJ
Apollo Simwasa	DEPARTMENT OF ENERGY	ASSISTANT DIRECTOR BIOLOGY POWER SUBMISSIONS	+260-925-752993	Box 51254	apoalosimwasa806@gmail.com	APOLLO

Meeting:

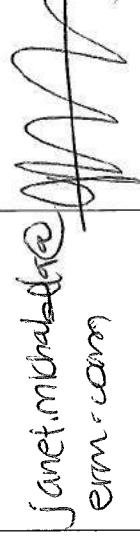
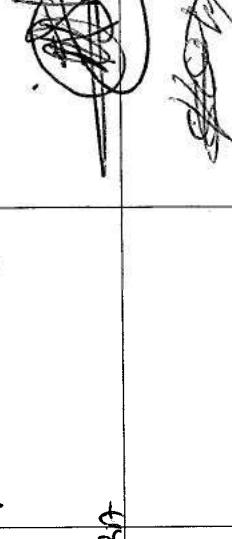
Datei

ATTENDANCE REGISTER

Meeting: SOUTHERN PROVINCE PERMANENT SECRETARY
Date: 04/03/15

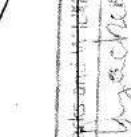
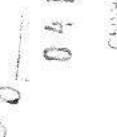
ATTENDANCE REGISTER

-

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Janet Mwendela	ERM	CONSULTANT	+27-681 5400		janet.mwendela@erm.com	
Douglas Singimbi (Mr)	Provincial Administration Choma	DP Administrator	0979928831	Box 630013 citsma	dsgimbi@yahoo.com	
Felix Chitima K	ERM Consultant	Consultant	0974074384	Lusaka	felixchitima@gmail.com 0978191696	

Meeting: Meeting with Provincial Authorities: Mashonaland West
Date: 04/03/2015

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Email Address	Signature
Mr K. Shumka Acting P.A.	Local Govt	P.A.-g P.A.	077526642		essayhighway@ yahoo.com	
Mrs S. Dusodzi	O PC Mash West	Mos	06722006		graceodzi@gmail.com	
Mugadrwa	Parks and Wildlife for Regional Manager NR Chilima	Registry clerk	0713660077 0718049288 0715554774 Regional manager		04 MAR 2015 CHINHOI CAVES P.O.BS 7713, CHINHOI TEL: +25580 25615 25617	

Meeting: SIANONGA DISTRICT OFFICIALS
 Date: 6 MARCH 2015 (2.30PM)

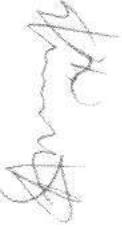
ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Ms Janet Michabela	ERM	CONSULTANT	+27 21 681 5400	240 Winkie Newlands S. Africa	Janet.michabela@erm.com	
Mr Oliver Mantenga	ERM	CONSULTANT	0772 958 671		olivermantenga@erm.com	
Mr Bisael Shiri	MINISTRIES OF MEAT	ENVIRONMENTAL SURVEILLANCE OFFICER	09717745347	Box 16 SANAGA	bisaelphiri@gmail.com	
Pronwell L. Semba	Chief Sonumberi Representative Councillor	Chiefs Rep.	0979336000	Box 12 Station	nomumerophage centre@gmail.com.	
SNIKE MZULANI	MEDIA	NEWS REPORTER	0978944888		snikemzulani@gmail.com	

Meeting: SAVONGA DISTRICT OFFICERS
Date: 6 MARCH 2015 (2.30pm)

(2)

ATTENDANCE REGISTER

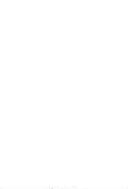
Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Conductor (Chair's Rep) FOR SAVONGA DISTRICT: LEONARD HACHTAPIKA	SINADAMBI CHIEFDOM	CHIEF'S REPRESENTATIVE OF 54 178189	0954 178189 44	Postbox 181 SAVONGA	leonardhachiki@gmail.com	
B. MIZOLO Executive Officer	BOPPSD Executive Officer	Executive Officer	0955849126	Box 15 SAVONGA	 	
Mr. SAVULOK B.	DISTRICT COMMISSIONERS OFFICE	Executive Officer	0977664867	P.O Box 15 SAVONGA	 	
PAMELA MWANACHIWA	MINISTRY OF COMMUNITY DEVELOPMENT	DISTRICT COMMUNITY DEVELOPMENT OFFICER	0977664867 OR 095560105	Box 203 SAVONGA	pamita@gmail.com	
MUNANDA Julius	FORESTER MIS. LAND, NATUR. RESOURCES AND ENVIRONMENTAL PROTECTION	DISTRICT FORESTY OFFICER	0979219322 093893887	Box 41 SAVONGA		

Meeting:

Date:

ATTENDANCE REGISTER

10

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Miss Grace C.E. Mwanza	SIMONEA DISTRICT CONSULTANT	SENIOR HEALTH INSPECTOR	0977917764	chicaza.mwanza@gmail.com		
Miss Janet Khabayi	ERIN					
Miss Felicity Ottisay.	ERIN	CONSULTANT	0974074384	Lusaka		
Eng Chitipim Namakanda	ZPLA Zambia River Project	Water Resources Engineer	+260 977 807758 +260 977 807759	Plot 30233 Lufuka	namakanda@yahoo.com.zm	

Meeting: Anti-corruption meeting - Zimbabwe (D.A.'s office)
Date: 09/03/2015

ATTENDANCE REGISTER

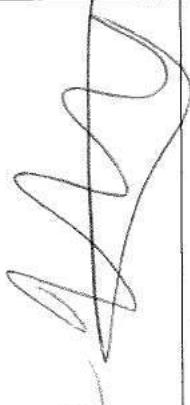
(1)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Felix Chispa K.	Lam	Consultant 0974074334	Box 210 Lusaka	Bafu Chispa 0974074334 blackberry.com		
PATRICK MACHENYIKWA 359	WOMEN IN PEACE SERVICES & COMMUNITY DEVELOPMENT OFFICER	51129777 99	Plot Public Works Anderson Hillside Kabwe			
TOMKO TOMAS	Min of Local Govt	Dr. A.D. P.M.	Plot 42 No. 6 Kabw	Plot 42 No. 6 Kabw	Plot 42 No. 6 Kabw	
GEORGE MANJAU	MOK	Cell WhatsApp 9 071233835	Plot 42 No. 6 Kabw	mangeng@gmail.com		
AMASIA MUSAKADE	PUBLIC SERVICE COMMISSION	DISTRICT INSPECTOR 061-3555	0772465340	Box 240 KABWA	Musakadeam@gmail.com	

Meeting:

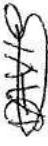
Date:

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Oliver Munjanya	ERIN	Consultant	0772958 671		oliver.munjanya@gmail.com	
Jane Mphabela	ERIN	consultant	+27 21 681 540	240 Main Rd, Newlands Forest, S Africa		
PAULINE (MRS) KARICHI	R.D.		011 266 0402	P.O. Box 90 KARIKHO		
Eng. Chitsoni Namakando	Zambezi River Authority	Water Resources Engineer	+260-977-807758 +260-955-807758	Box 30233 Lusaka	namakando@zra.zm namakando@yahoo.com	

Meeting: MICHTO COMMUNITY MEETING
 Date: 5 MARCH 2016 (15:00 HRS)

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
DICKSON MOLIBOKA						
CHIWAWA CHARLES G61	N.A. Church	Rev-	0778456867	Box 27 Siavonga	and	
Tobias Bandala			—	096679 92 5597	Siavonga	
David Muhongo	PIC Church	—	097156 7821	Box 90 Siavonga	—	
Woodley Mutale	P.T.C.M Church	—	0977929 6299	Box 90 Siavonga	—	

Meeting: _____

Date: _____

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Benard Zandala	—	—	—	Box 82 Siavonga	NIC	Zandala
PROTASHO Mofu	—	—	09752484	Box 10 Siavonga	NIC	Mofu
MOSES Mwata	—	—	—	—	NIC	Mwata
Jeffrey Ntont	—	—	—	0962579300	Box 140	Ntont
Patson Nakwele	—	—	—	0978067570	Box 62	Nakwele

Meeting: _____
Date: _____

(3)

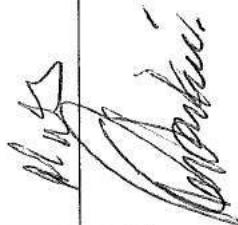
ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Celpnone Numbers	Postal Address	Email Address	Signature
Bernard Zandale						
363 Chindimoh		-	09796410	Box 28 M.C		
1540 Reza		-	0979782211	Box 173		
Phanty Siamatika		-	0977310244	Box 27		
Protasho Mo Fu.		-	0975248411	Box 10	protashomo fu at yahoo.com.	

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(7)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
MUSANA	—	—	09760 37665	—	—	
MUNDI	—	—	09761423 Box 140	NIC	—	
CLIFF MBAKANI	—	—	—	—	—	
364						
Samuel Mwaura	—	—	09764007 Box 110	NII	—	
—						
MIGG KALANGAT	—	—	0977012267 Box 160	NII	—	
364						
Deter.	—	—	09720109 14	—	—	

Meeting: _____
Date: _____

(8)

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Robert Mwemba	—	—	0972163984 0976737630	—	Dmja	
KASSOWE 365 ORDERLY	—	—	0969463692	—	Ragwe	
MENDEBY HANNIENE	—	—	0769612507	—	HJ	
DALE B MILUBBA	AIDA Coordinat Kulu Ba Community.	AIDA Coordinat Kulu Ba Community.	0977314363	Box 134, Sierra Leone	tonalemba2 @yahoo.com	
PATRICK CHIZEEKA	PATRICK	—	097667 7072	Kariba PO Box 140	Patrisha	

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(6)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Celpnone Numbers	Postal Address	Email Address	Signature
CHRISPINE CHI SANCIO	CHRISPINE -	09677 1875A	-	-	-	
FANNELL DANIEL 366	FANNELL DANIEL	09653166 09	-	-	-	
SMART MASHINGWELE		-	0976060 373	-	-	
MASIBULANI Efford		-	09778685 21/09542 S181	-	-	
Beauty Mwando		-	0977973997 0967684892	-	-	

Meeting: _____

Date: _____

(7)

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
EDWARD CHIKWE	—	—	0969550816	—	—	e.chikwe
Bedford Stakee ka 367	—	—	0953910485	—	—	BS KQ
UNITED CHURCH OF ZAMBIA	STEWARD	—	097550393 0962330493	—	—	W we
MAXWELL MACHA	—	—	0974222663	—	—	m.macha
Martin Mbende Catholic Church	—	—	09782343 49	—	—	Aminkwe

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(88)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Charles Gavanga	Catholic Church	-	078808159	-	-	<u>Gavanga</u>
Daniel Tando	St. Peter Project	-	09777- 210531	-	daniel.tando@yahoo.com	<u>Daniel</u>
DEOBEN CHINQA	New Apostolic Church	-	096420 2842	-	-	<u>Deben</u>
MARIA . S.D.A	Dominis SIBASEN	-	097808394 0978083594	-	-	<u>Dominis</u>
ENTRUS HABANI	Karimba	-	097167452 0953096689	-	-	<u>Habani</u>
JOKER	S. D. S	-	-	-	-	<u>Joker</u>

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(9)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Chooiwe Choong SDA Church		—	0962 855678	—	—	A. J. J. G.
Brigitte Mwende	SDA Church DOCS	DOCS	0962489609			B. Mwende
Mwende Mwende	Tenosolo		0976090746 0976090746			M. Mwende
Gethsemane Chikwe	U G Z		0977595246			G. Chikwe
Josephine Mphande	Catholic	member	09635150	\$2		J. Mphande

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(10)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
LINDA MUNIZ 370	Caritas	member	0965664502	90 Box 140	L.munizTwa	
SIMAYORO PRUSCA 370	EP.M.E		0968298885		P.C.Simayoro	
FLORENCE SIMMENT	Community Worker	Chau Person	0955366673	90 Box 140		
VIOLET CHUSTI	C. N.I. M.L	-	0971303611	-	Chusti	
REDETOR	ACOETOR MWANDO				09775140741	
NEW APSTOR						

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(11)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Emmerson Simeon Suleiman	church of Christ		09174223344			Simeon
Mambanya 371mbanya	New Apostolic Sunday school	teacher	0976783394			Mambanya
Winnie	New Apostle		09506070601			
Mukundu	Church					Mukundu
Puelo	New Apostle					Puelo
Strizel	Church					Strizel
Gennarite Matin	we					Gennarite Matin

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(12)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Alice Songolo	S.C.Z		097298 4889			Thun
Blessing Jaomy	U.C.Z					B.N
Gladys Chmowa	S.D.A		097292 0895			G.Chmowa
Mesha Barony Amat				0966 096188		M.H.
Grandy Hakantha				0967910 441		G.HAKANTHA

Meeting:

Date:

ATTENDANCE REGISTER

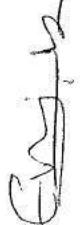
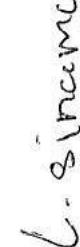
(13)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Celpnone Numbers	Postal Address	Email Address	Signature
Hildan Musamoa			0964 - 204473			H. Musamoa
Inyambo Mwilonde			0962 - 022638			I. Mwilonde
THERESA MBEWEE			0955 369391			Theresa Mbewee
RUTH MPHANDE			0974 804196			R. Mphande
JOSEPHINE MPHANDE			0963 515310			J. Mphande

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(14)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Celpnone Numbers	Postal Address	Email Address	Signature
BRAVIA MEAN DO			0945 91115			
NANAKA TUBINDA			0944 86683 -31			
EMEDA LAFUPI			0944 59289			
Coveness SINAMUGULU			0960 9090 096646734 vito			
JULIET MZUMARA			0946 248060			

Meeting:
Date:

(K)

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
ROY SIRABPUMA			096324 51482		R. SIRABPUMA.	
Gloria S. Ballooo 375			0979340763 0953064276			
PAULINE PAULAMBA			0976-24 8060			
P. Tewelu			097563 3063		P. Tewelu.	
Miricent Sitali					0964742151	

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(16)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
HENDREX KHELO			097456 2840			J. H. Kheko
KENTON GORDONBROS 376			0972091115			R. Gordonbros
MABUZO ZULU			096452980 0978332451			Zulu
MASTERS LYNNELA						A. Masters
MULALE ALFRED			0974 562432			A. Mulale

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(17)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Cris Jon Simbawie			097410 8551			
SHLU			097174 7790			
ZIBNAMANO						
TARIQ SAR			097974 0591			
MWEETWA.						
Bedayd						
Hassan			096758 8269			
MISENG			0973			
Musonda			201961			

Meeting: _____
Date: _____

ATTENDANCE REGISTER

(18)

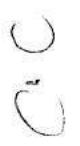
Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Mr Michael Muthindu			0765 672432			J. Muthindu
Derek Mwiche			0962 697167			Mwiche
Steven Nanyinda			0974 027484			Steven Nanyinda
Chikunyama Patisiros			0962527442			Chikunyama Patisiros
Villanova Chomwe			0966-636624			Villanova Chomwe

Meeting:

Date:

(19)

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Zilke rosses			097977 8564			
JOHN NYENPWUA 379			0953 633327			
AUSTINE MBAKO			0965 283925			
Albert Cott			09671 79066			
C. CHAMBA			09789 30765			

Meeting:

Date:

(20)

ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Muheni CHIYANI			0979 336096			Muheni CHIYANI
Cooper SimBawali Winginton Hibangano Mwakilosi Samson			0977817980 096193540 0972109447			Cooper SimBawali Winginton Hibangano Mwakilosi Samson
Aeon Kamoto Lenny Masembi Edward Kasambe Inambao Phiriwa			0978847905 0979208711 0954906463 0963837836			Aeon Kamoto Lenny Masembi Edward Kasambe Inambao Phiriwa
James Mbulayayete Osei Chisangano Patson Simonge			0966096188 0950245865 0961301828			James Mbulayayete Osei Chisangano Patson Simonge
Benny ethiDwe Felix Mwitiwa			096391400			Benny ethiDwe Felix Mwitiwa

Meeting:

Date:

ATTENDANCE REGISTER

(21)

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Postal Address	Email Address	Signature
Bentukel Gymis EMMANUEL MATENDE BORNFACE MULENGA JO NEMORE MORELO JAMES NCAYA	WICOM		0966336634 097512958	WIC 09751164 092196992 0972334024		M. Bentukel Gymis
Renny Siambanidy			0965670559 097364445	0976157662 0971758255 0976562114		Renny Siambanidy Renny Siambanidy Renny Siambanidy
Mike Maboko Arthur Samuels Nicholas Mwambumbu Mu Timo Possible Webster Menden						Mike Maboko Arthur Samuels Nicholas Mwambumbu Mu Timo Possible Webster Menden
Alick	ROMAN CATHOLIC CHURCH		0962460028			Alick