### PART 3

### 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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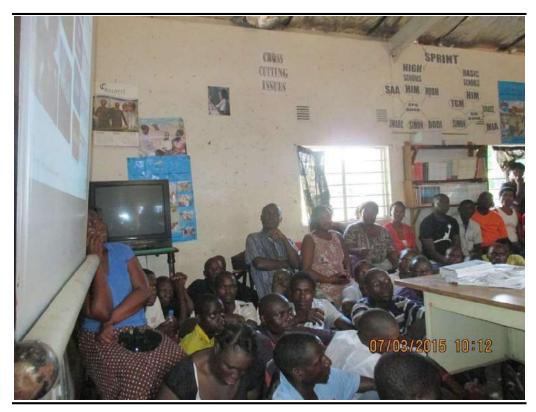
Annex B:17

# Pictures taken at Meetings

## Micho Public Meeting



# Siavonga Town Public Meeting



## Mahombekombe Public Meeting



Annex B:18

# Updated Issues Log

Response/Action Description		This has been done through the District Offices and the appropriate authorities DCOs etc.	This depends on individual contractors and contracts between them and their employees. This will need to be clarified by the individual and the contractor as stipulated in their terms of reference.	Through employment and procurement opportunities created as a result of the project implementation.	ZRA manages the Zambezi River water body. ZESCO and other energy related parastatals are responsible for connects, distribution and pricing.	The Project Developer, the Consulting Engineer and the Contractor should develop and implement their own Procurement Statelogies. These strategies will be designed to encourge Project authorities and their design and construction consultants to stimulate in-country business opportunities at local, regional and national level through incentivising in-country procurement.	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.	Noted. This is not a platform to raise historical issues associated with the resettlement during the construction of the dam. As such employment opportunities will be extended to all the residents of the Kariba and Siavonga Districts.	Recruitment and employment policies will set out certain guidelines in terms of the allocation of employment opportunities.	Furthermore, the ZRA will work closely with the Districts labour offices for guidance in terms of ensuring a transparent employment process.	The grievance mechanisms will be in place for stakeholders to raise any issues/ concerns and comments they may have regarding all things associated with the project.	Thark you. The ZRA will implement the recommendations of the ESIA and there will be monitoring and evaluation undertaken by certain government departments that may assist in ensuring that local people do get jobs.	We cannot guarantee that funeral grants will form part of the employment contracts as different companies provide different benefits for their employees compared to others.	What we can advise is that read your contracts well before signing in order to
Issue Description		Has the councillor been kept abreast with developments, this meeting and this feedback process?	Funeral grants if an employee has a family member who dies, is that person covered by the company?	Slavonga is a growing township many depend on charcoal and firewood it costs K3,500 to connect electricity, and this out of the reach of many. The environment and its natural resources have been exhausted, fruits such as Machenje are no longer found in the area as a result. How are we going to benefit from this?	Will electricity be connected for us and subsidised as it is so expensive?	What measures have been put in place for procurement both in Zambia and Zimbabwe?								There are legacy issues from the building of the wall (both in Zambia and Zimbabwe) which include people having not been compensated accordingly for the resettlement. As such the benefits associated with employment should be given to those who were affected by the resettlement.	There is a lot of politics in the way people secure job in the area. How is the ZRA planning to address issues of corruption associated with the			Thank you and we support the project. Please ensure that local people benefit from project through jobs.	Some more clarity on the previous question on funeral policies, would be appreciated.	
Discussion Areas		Stakeholder notification	Benefits associated with employment	Electrification	Electrification	Procurement								Employment opportunities	Employment opportunities	-		Employment opportunities	Employment opportunities	
ERM & ZRA	Representatives	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)		Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)									Janet, Felix , Oliver (ERM); Chrispin Nomotondo (7DA)			Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	
Country	<b>,</b>	Zambia	Zambia	Zambia	Zambia	Zambia								Zambia	Zambia			Zambia	Zambia	
Name		Patson Makwelele	Tobias Banda	Pearson Hakabale	Pearson Hakabale	Daniel Banda								Victor Hazemba	Samuel Mwitwa			Florence Simunje	Rosemary Longwe	
Type of Stakeholders	;	05-Mar-15 Community member	05-Mar-15 Community member	05-Mar-15 Community member	Community member	Community member								Community member	05-Mar-15 Community member			Community member	05-Mar-15 Community member	
Date		05-Mar-15	05-Mar-15	05-Mar-15	05-Mar-15	05-Mar-15								05-Mar-15	05-Mar-15			05-Mar-15	05-Mar-15	
Consultation Type	;	Public meeting	Public meeting	Public meeting	Public meeting	Public meeting								Public meeting	Public meeting			Public meeting	Public meeting	

Public meeting	05-Mar-15 Community member	unity member	Media Habanyama	Zambia	Janet, Felix , Oliver (FRM): Chrispin	Employment opportunities	What is the age for employment?	Contractors will adhere to labour laws of both countries in terms of the age of employment 18 and above
Government	06-Mar-15 District official	t official	Phanwell Simamba	Zambia	Janet, Felix , Oliver (ERM); Chrispin	Employment opportunities	In which country is labour going to be sourced?	The labour will come from both countries and in case of highly skilled labour, it may require the recruitment of expats.
Government	06-Mar-15 District officia	t official	Phiri Bisael	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Creating of the plunge		Keep in mind the dam and associated infrastructure were constructed 50 odd years ago and some todays technology (adn't wait. The thinking at the time wait the plunge pool will develop in a natural way and away from the dam wall, which did not happen thus the proposed rehabilitation works.
Government	06-Mar-15 District officia	t official	Muzoka B.	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Plunge pool dewatering	One would assume that the water from the plunge pool has limited oxygen levels compared to the water currently flowing downstream of the dam. How will this water (pumped out of the plunge pool) affect the quality of water downstream?	The water does have enough oxygen and the downstream flows will be continuously monitored and testes.
Government	06-Mar-15 District official	t official	Phiri Bisael	Zambia	Janet, Felix , Oliver (ERM); Chrispin	Labour and working V	Will the labour laws be observed?	Yes, the project will adhere to both countries labour and working conditions as well as occupational health and safety laws.
	Distric	District official	Phiri Bisael	Zambia		health and	Have the capacity of the local hospitals and clinics been assessed regarding the handling of labour force injuries?	Yes, the social baseline provides a high level description of the health facilities that exist in the areas. This description will form basis for further discussions to be undertaken by the ZRA and the respective institutions they want to work with during construction.
Government	06-Mar-15 District official	t official	Grace Mwanza	Zambia	Janet, Felix , Oliver (ERM); Chrispin	Labour and working F conditions	Please note that Slavonga District does not have a labour office.	Noted.
Government	06-Mar-15 District officia	t official	Phanwell Simamba	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Employment opportunities	It is suggested that employment opportunities associated with the project should be divided equally between the respective countries (i.e., 50'50). This will limit any future confusion that may arise.	Noted. This will be determined during the planning stages with the Consulting Engineers and Contractors and communicated further to you closer to the start of project works.
Government	06-Mar-15 District official	t official	Phanwell Simamba	Zambia	Janet, Felix , Oliver (ERM); Chrispin	Community development 1 initiatives	Will there be any CSR programs associated with the project?	CSR associated with the project is still to be determined.
Government	06-Mar-15 District official	t official	Grace Mwanza		Janet, Felix , Oliver (ERM); Chrispin	OHS	Will an Occupational Health and Safety Officer be present on site at all times?	Yes, here will be and OHS Manager and support on site.
Government	06-Mar-15 District official	t official	Grace Mwanza	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Monitoring and evaluation F	Please note that most government departments are not proactive. As such, the ZRA is encouraged to engage private companies assist in addressing issues of OHS and monitoring .	Noted.
Government	06-Mar-15 District officia	t official	Samulola B.	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Security		Noted. All that is known at present is that there will be security personnel present on site at all times. The finer details of this will be determined closest to the commencement of construction.
Government	06-Mar-15 District officia	t official	Grace Mwanza	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namaƙando (ZRA)	Issues of employment and labour	s suggestions of the consultants regarding ent procedures, etc. especially given that een disappointed in many cases as ople from outside the area.	Noted.
Government	06-Mar-15 District officia	t official	Muzoka B.	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namaƙando (ZRA)		When will construction begin?	The timeframes are as follows: EMA and ZEMA are expected to approve or disprove the ESIA around June 2015. ZRA1s expecting to appoint the Consulting Engineer in September 2015. Works on the plunge pool are expected to begin in March 2016.
Public meeting	07-Mar-15 Community member	unity member	Smart Marasha			ment and	de	The ZRA will monitor the issues/ concerns raised by the labour force through the workforce getevance procedures. EtM and ZEMA will be monitoring compliance with the recommendations of the ESIA study. The ZRA will also be expected to report to various other government ministries/ or departments as well as the respective funders (i.e., world bank, African development bank, etc. There will also be sitting panels/ committees that will be engaged by the ZRA window months to evaluate the compliance of the project with the ESIA ministries.
Public meeting	07-Mar-15 Community member	unity member	Smart Marasha	Zimbabwe		Issues linked to Contractors t	Contractors tend to bring their own labourers for most construction work that takes place in this district. As such, it is suggested that recruitment should be done through the district's labour office, located in Nyamhunga. This will ensure that the employment process is transparent.	Noted. A similar suggestion was made in Slavonga, Zambia and the suggestion will be incorporated into the social impact assessment.
Public meeting	07-Mar-15 Community member	unity member	Smart Marasha	Zimbabwe	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Road traffic accidents	The ZRA should consider engaging the road traffic agency regarding the monitong of road traffic and installation of road traffic animy measures. Eurthermore, the ZRA should consider working with this agency to develop and implement road safety campaigns at local primary schools. This assist in limiting the potential number of road traffic accidents linked to the project vehicles and locals.	Noted. This suggestion will be incorporated into the social impact assessment.
Public meeting	07-Mar-15 Community member	unity member	Douglas Muzivekwenu	Zimbabwe	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Project timeframe	When are the project works expected to commence?	The timeframes are as follows: EMA and ZEMA are expected to approve or disprove the ESIA around June 2015. ZAA is expecting to appoint the Consulting Engineer in September 2015.

07-Mar-1 <sup>1</sup>	07-Mar-15 Community member 07-Mar-15 Community member	Witfred Jani Smart Marasha	Zimbabwe Zimbabwe	Janet, Felix, Oliver (ERM); Chrispin Namakando (ZRA) Janet, Felix, Oliver (ERM); Chrispin Mamakando (ZRA)	Workforce conduct		Note: There will be policies in place that will advise the workforce of corpect. There will be policies in place that will advise the workforce of Workforce code of conduct. Health and safety policy. Closed and dry worker camp. Blasting and dewatering of the plunge are expected to affect fish resources in the plunge pool and may lead to fatalities.
07-Mar-1 <del>(</del> 07-Mar-1 <del>5</del>	07-Mar-15 Community member 07-Mar-15 Community member	Smart Marasha Elliot Manvenga	Zimbabwe Zimbabwe	Janet, Felix , Oliver (ERM); Chrispin Mametendo (ZPA) Janet, Felix , Oliver	Impact on fisheries V resources F Impacts on power F	What are the expected impacts on the fisheries resources found in the plunge pool? How will the works affect power generation?	But this will also create research opportunity for the Kariba Fisheries institution in terms of determining the fisheries species that occur in the aurone node. The power generation will continue uninterrupted by construction.
07-Mar-1{	07-Mar-15 Community member	Smart Marasha	Zimbabwe	(ERM); Chrispin Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	generation Method of separating the 1 2 project impacts i	Given the estimated project start month, and the current installation of new turbines in the south bank; how does ZRA plan to separate the 2 projects' impacts?	Weekly and monthly meetings are currently being held partners involved in these projects in order to assess the impact of the current project. It is expected that the same partners will continue to engage each other including this project.
07-Mar-1{	07-Mar-15 Community member	Samson Banda	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Employment opportunities	For the seven month or so cycles for the rehabilitation will the same people be employed that were employed at decommissioning?	This is still unknown. The ZRA, Consulting Engineers and Contractors will have to discuss this and inform you prior to the recruitment process.
07-Mar-1	07-Mar-15 Community member	Berita Banda	Zambia		Blasting	Won't the blasting during rehabilitation increase cracks already there?	No because controlled blasting methods will be employed. By controlled blasting we refer to blasting techniques used to reduce the amount of overbreak and to control the ground vibrations.
07-Mar-1;	07-Mar-15 Community member	Clinton Mukunga	Zambia		ESIA team during construction		Unfortunately the ESIA team will not be present during construction. However, the ZRA, various other specialist and certain government officials will be present to monitor the activities.
07-Mar-1;	07-Mar-15 Community member		Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Employment benefits	What type of employment benefits will be available to the workforce?	These will be determined by each individual Contractor, but obvious things such as health life insurance will form part of the employment contracts.
07-Mar-1:	07-Mar-15 Community member	Phoebe Kawonga	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Project timeframe	When will the work be starting?	The timeframes are as follows: EMA and ZEMA are expected to approve or disprove the ESIA around June 2015. ZRA is expecting to appoint the Consulting Engineer in September 2015. Works on the plunge pool are expected to begin in March 2016.
07-Mar-1:	07-Mar-15 Community member	Justin Chembo	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Employment and women	You mentioned women will be empowered don't you think this will break up our marriages having women as bread-winners?	No this is not expected to break marriages. Gender equality has been is important: You need to keep in mind that competition for entropyment popcrunties will be high always be high amongst men than women in Africa. As such, we always advise that husbands should always allow their wives to seek employment because chances of women securing employment compared to their husbands will always be higher.
07-Mar-1{	07-Mar-15 Community member	Innocent Kayawe	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Employment	The employment numbers are they just for the people who will be employed by ZRA or does it include the contractors too?	The estimated employment numbers apply to all project related employment including these estimates.
07-Mar-1{	07-Mar-15 Community member	Danny Mwila	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Employment	Are these numbers (for employment) just for Zambia or does it include Zimbabwe too?	Nope, the employment estimates are for both Zambia and Zimbabwe.
07-Mar-1;	07-Mar-15 Community member	Alex Ndeke	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	SHO	Who will be responsible for providing the workers with PPE?	Depending on the contractors and their specific policy, for example the money may be deducted from your salary or it may be paid for by the contractor. The important thing is for you to know that you will need to have PPE on site for OHS reasons.
07-Mar-11	07-Mar-15 Community member	Chibesa Kabaya	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namaƙando (ZRA)	OHS	Will the employees be allowed to keep PPE once the project work is complete?	This depends on contractual obligations and company policy. But why would you want to keep PPE with ZRA or Contractor logos, etc. 7 can you imagine how it will look if you were to use the ZRA PPE on a different project; it wont look alight. So if the contractor or ZRA say return the PPE, you will need to return it.

Public meeting	07-Mar-15 Community member	nember Goodson Mulenga	ulenga Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Compensation for 1 attending a meeting f	I have come from Central Province seeking work, will I be compensated for coming to this meeting?	Did you travel to Siavonga for the meeting or you were already here when the meeting was announced? The stakeholder responded that he was already in the area.
							Why then would you want to be compensated for attending a meeting that was not compulsory for you to attend? The stakeholder didn't respond to this.
							This is a feedback meeting only and as such you cannot be compensated.
							Thank you for participating and keep listening to communications in the media, from the authorities and the ZRA.
Public meeting	07-Mar-15 Community member	nember Edson Muwamba	amba Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Transportation of V workforce	Will the contractor be providing transportation for the workforce?	This conversation will take place once the contractor has been appointed and communicated to you at the appropriate time.
Public meeting	07-Mar-15 Community member	nember Clement Likonge	onge Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Rehabilitation works	Will there be continued monitoring after the rehabilitation is complete?	Yes, keeping in mind that the plunge pool has been monitored over a long time and will continue to monitor it.
Public meeting	07-Mar-15 Community member	Gladys Jamu	Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Employment and women 4	Will women be expected to reside in the workforce camp? Will they be allowed to go home?	Yes, women may be expected to stay at camp too. But in a separate section to that of men. Whether they go home everyday or not will be discussed with the contractor and consulting engineers and communicated to you.
Public meeting	07-Mar-15 Community member	nember Charles Hakazembe	kazembe Zambia	Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Rehabilitation works k	is it possible to have the two processes running concurrently as this would ensure higher numbers of people are employed during the rehabilitation.	No, the rehabilitation process cannot be undertaken concurrently due to health an safety reasons.
Public meeting	07-Mar-15 Community member	nember Crispen Banda	da Zambia	Janet, Felix , Oliver (ERM); Chrispin	A SHO	Will there be first aid on site?	Yes a first aid kit will be present at all times on site as well as trained first aiders.
Public meeting	07-Mar-15 Community member	ember		Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	-	What would happen if an employee is injured?	This will be detailed in the updated Emergency Response Plan and Health and Safety Policy and communicated to those employed by the project.
Government	09-Mar-15 District official			Janet, Felix , Oliver (ERM); Chrispin Namakando (ZRA)	Issues related to 7 contractors A		Please contact. Mr. S. Z. Mhlanga at the Kariba ZRA offices regarding the current issues.
Government	09-Mar-15 District official	Il Tariro Tomu	Zimbabwe	Janet, Felix , Oliver (ERM); Chrisoin Namakando (ZRA)	Employment opportunities	Employment opportunities Local hardly ever benefit when projects/ developments of this nature take place. The reasons for this are unclear.	Noted. That is why the consultants have developed easy to implement imgration measures for employment. Further, the grevance measures for measures for employment be available to all. As such stakeholders can raise their concerns regarding the distribution of employment opportunities. There are also other avanues which stakeholders can pursue should they betwe that their employment related concerns are not being addressed, such as engaging the districts 'labour offices.
Government	09-Mar-15 District official	al Amasia Musakanda	sakanda Zimbabwe	Janet, Felix , Oliver (ERM); Chrispin	Employment opportunities	Employment opportunities Where will potential employees go for registration?	At the proposed employment offices. The exact locations of these are still to be determined.
Government	09-Mar-15 District official	I George Munyau	nyau Zimbabwe	Janet, Felix , Oliver (ERM); Chrispin	Location of recruitment H offices		No, the location is still to be determined.
Government	09-Mar-15 District official	al Tariro Tomu	Jimbabwe	Janet, Felix , Oliver (ERM); Chrispin	Emergency Response 1 Plan c	The office of the Kariba District Administration would like to receive a copy of the Emergency Response Plan.	Noted. The ZRA will provide the district officials with a copy once the ERP has been updated.

Annex B : 19

# **Comment Sheets**

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 Manjengwa (Zimbabwe) Comment: HISTORY :- This ously pro ,bok at Ó 15 Valley Kariba OVAC 0 00 0 YM 213 eS Title and Name: H. HA OK C, 751 Organisation: Fax: Telephone: Mobile phone: 72 en Joakt Yahoo.com Email: 0 Postal Address: 12

EMPLOYMENT: The People from the affected Chiefdoms must benefit without which other means to bring the benefit to the deserving people will be sought. Camps shall be built that may eventually be turned into secondary schools to accomodate the workers from the chiefdoms both on babwean Tambian and Ende

Dam ES	IA - Comment Sheet
March 2015	
Should you have any q ESIA team	ueries, comments or suggestions regarding the Project, please don't hesitate to contact the
Return this comment sł jengwa (Zimbabwe)	heet to: Ms. Janet Mkhabela (South Africa); or Mr. Felix Chisha (Zambia); or Mr. Oliver Man-
around 15:00 0	2015 We lawelod public meeting in micho companys
and Zhubaba	re When this project bright into we go are going to have
With this "	a sensitising us into the gron samas and
KARIBA NURTH	Brank worked with Binks - Hypes for 2 years , 1
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project people buy cours and molecture and	which you have mentioned above, learn follow e will benefit for 13 years contract where as we also we all long as we follow the ecconomical vegetables proceive the farm from this project and very much for your co-operation with us in the same way.
Use growing ! Thank you	2150 we are mocere the form from this project and
- Or in it	very much for your co-operation with us in the same way.
tle and Name:	CHIKUMBULA PHIVIOUS
rganisation:	
elephone:	Fax:
obile phone:	0962527447 Beruls
nail:	
stal Address:	KALEYA COMPOUND
4	
×7.	

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### 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 Manjengwa (Zimbabwe)

Comment: We have head public meeting in compound which says Kariba Deim We heard what you taked about q bringing the delepopment in the countries. That is a very good idea I bringing the project so as people can get employed in the same company. In Stavonoja Catchment area we are Joing to have more money in our pockets. We knowced with SINO-HYDRO COMPANY LIMITED UNCLER Kariba North bank extension project for Brigears hard Job as as general - worker. We had touch about alcohor fibeer is not collowed tottality, because you may end up hurting from this Concern alcohor can cause you to sleep on cluty which is not good, where you are toud to work at the same position, where you have planted, according what you have said in the same meeting in micho compound. Also you had mentione. your policies which can follow accordance Thank you very much for your co-operation with us in the science CHAUMBA Title and Name: CHRISTOPHER Organisation: Telephone: Fax: 0965985065 Mobile phone: 0978930765 Email: Postal Address: KALEYA Compound

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 Manjengwa (Zimbabwe) Comment: We suggest that ZRA Office, should not be within council offices, to avoid council offices, to avoid council offices, to avoid Comment: E Muchind Title and Name: VINNIE Organisation: Telephone: Fax: Mobile phone: Email: SIAVONGA/ KAR Postal Address; 12

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Other Stakeholder Comments

## Janet Mkhabela

From:	Innocentology Lala <isialumwemwe@gmail.com></isialumwemwe@gmail.com>
Sent:	08 April 2015 01:47 PM
То:	Janet Mkhabela
Subject:	Re: REHABILITATION OF KARIBA DAM

Thanks Ms J Mkhabela, May God Bless You.

On 06/04/2015, Janet Mkhabela <Janet.Mkhabela@erm.com> wrote: > Dear Innocent, > > > > Thank you for your email. Please note that the Kariba Dam > Rehabilitation project construction activities are proposed to begin > in March 2016. The ZRA will keep you informed as to the exact dates. > > > > Kind Regards, > > Janet Mkhabela > > ERM Southern Africa (Pty) Ltd > > T +27 21 681 5400 | F +27 21 686 0736 | M +27 79 388 7725 > > > > > > ----- Original Message-----> From: Innocentology Lala [mailto:isialumwemwe@gmail.com] > Sent: Saturday, March 14, 2015 5:51 PM > To: Janet Mkhabela > Subject: REHABILITATION OF KARIBA DAM > > > > GOOD AFTERNOON MS JANET MKHABELA. MADAM I JUST WANT TO FINDOUT > > FROM YOU, THIS PROJECT OF KARIBA DAM REHABILITATION IS IT FOR THIS > > YEAR OR NEXT YEAR 2016. THANKS MADAM. **INNOCENT FROM** > > ZAMBIA > > > > This electronic mail message may contain information which is (a)

<sup>&</sup>gt; LEGALLY PRIVILEGED, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY

<sup>&</sup>gt; LAW FROM DISCLOSURE, and (b) intended only for the use of the

<sup>&</sup>gt; Addressee (s) names herein. If you are not the Addressee (s), or the

- > person responsible for delivering this to the Addressee (s), you are
- > hereby notified that reading, copying, or distributing this message is
- > prohibited. If you have received this electronic mail message in
- > error, please contact us immediately and take the steps necessary to
- > delete the message completely from your computer system. Thank you.

>

> Please visit ERM's web site: <u>http://www.erm.com</u>

>



Manyame Catchment 1st Floor, Old Mutual House Sam Nujoma / Speke Avenue P.O. Box CY 715 Causeway, Harare Tel: 04 - 702124 Fax: 04 - 793 738

Ref Q/1/1

27<sup>th</sup> March 2015

Environmental Resource Management 2<sup>nd</sup> Floor, Great Westerford 240 Main Road, Rondebosch 770 Cape Town, South Africa

ATTENTION: Mr. Oliver Manjengwa

Dear Sir

## RE: ZINWA COMMENTS ON THE DRAFT ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT FOR THE PROPOSED REHABILLITATION OF KARIBA DAM SUPPORT INFRUSTRUCTURE

The above matter refers.

The draft report covers well the issues we had of concern on the possible impacts of the project and how they can be strengthened or mitigated. However, we feel the blasting of the plunge pool is likely to weaken the foundations of the wall and the impact will be severe resulting in failure of the dam and flooding of downstream places leading to loss of life, physical features and infrastructure. In order to reduce chances of dam failure as a result of blasting we recommend that blasting should be controlled and done in phases whilst monitoring its impact on the dam wall foundations.

We therefore recommend that the project can carry on provided all the suggested mitigatory measures have been taken into account.

Regards

T. Makwangudze CATCHMENT MANAGER

Fax: 738856

Sanyati Catchment P.O. Box 554 Gweru Tel: 054 - 222511 -4 Fax: 054 - 220168 Mazowe Catchment Run P.O. Box CY 715 Causeway Harare Tel: 03 Tel: 738781 / 3 F

Runde Catchment P.O. Box 250 Masvingo Tel: 039 263690 / 262950 -2 Fax: 039 263972 Save Catchment P.O. Box 210 Mutare Tel: 020 60926 Fax: 020 62848

446

Gwayi Catchment P.O. Box 566 Bulawayo Tel: 09 69361- 3/ 67628 Fax: 09 77109 Mzingwane Catchment P.O. Box 2008

Bulawayo Tel: 09 885191 /2/6/8 Fax: 09 882865 Manyame Catchment P.O. Box CY 715 Harare

Tel: 04 702124 Fax: 793738 Annex B:20

# Notification of Additional Stakeholders

**Government Ministries** 

2<sup>nd</sup> 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



The Permanent Secretary Ministry of Finance and Economic Development New Government Complex Central Avenue PO Box 7705 Harare

09 April 2015

Dear Sir or Madam,

### Notification of the Environmental and Social Impact Assessment (ESIA) Process for the Kariba Dam Rehabilitation Project

The Zambezi River Authority (ZRA) is proposing to rehabilitate some of the support infrastructure of the Kariba Dam; namely the plunge pool and spillway (including the installation of an emergency spillway gate).

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Subsequent to the above, the draft ESIA report has been submitted, which includes detailed specialists' studies and impact assessments, to EMA and ZEMA for review. Whilst reviewing the ESIA report, EMA has identified your Ministry as one of the key stakeholders for the proposed Project and associated ESIA process; and has requested that ERM includes the Ministry into the project stakeholder database and to provide the Ministry with the relevant project information.

To address EMA's request, we have attached a copy of the Non-Technical Summary (NTS) of the ESIA report for your perusal. The NTS provides the following project information: Registered Company Address Environmental Resources Management Southern Africa (Pty) Ltd 1<sup>st</sup> Floor, Building 32 The Woodlands Office Park Woodlands Office Park Woodlands Drive, Woodmead 2148, Johannesburg, South Africa

Company Registration Number 2003/001404/07

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

2<sup>nd</sup> 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



Project description; •

- Impacts assessment; and
- Recommendations and / or mitigation measures as suggested by the various specialists' on the project.

Please note that all enquiries and comments on the NTS can be sent directly to Mr. Chris Mushava of EMA. His contact details are: email: mushavac@gmail.com; and telephone number (04) 705671-3 / 705661-2.

Thank you for your participation.

Yours Sincerely,

Manada

Ms. Janet Mkhabela Social Specialist

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Company Registration Number 2003/001404/07

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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



The Permanent Secretary Ministry of Home Affairs 11<sup>th</sup> Floor Mukwati Building Corner Fourth Street and Livingstone Avenue Private Bag 7703 Causeway Harare

09 April 2015

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Thank you for your participation.

Yours Sincerely,

Mhapdon

Ms. Janet Mkhabela Social Specialist

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



The Permanent Secretary Ministry of Transport and Infrastructural Development Kaguvi Building 13<sup>th</sup> – 17<sup>th</sup> floor Central Avenue PO Box CY 595 Causeway Harare

09 April 2015

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The Permanent Secretary Ministry of Mines and Mining Development ZIMRE Centre 6<sup>th</sup> Floor Corner Leopold Takawira and Kwame Nkrumah Harare Private Bag 7709 Causeway Harare

09 April 2015

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The Permanent Secretary Ministry of Tourism and Hospitality Industry 11<sup>th</sup> Floor Kaguvi Building 55 Samora Machel Avenue Harare

09 April 2015

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The Chief Executive Officer Traffic Safety Council of Zimbabwe 4 Park Street PO Box CY 293 Causeway Harare

09 April 2015

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2<sup>nd</sup> 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



The Director UNESCO 8 Kenilworth Road Newlands PO Box HG 435 Highlands Harare

09 April 2015

Dear Sir or Madam,

## Notification of the Environmental and Social Impact Assessment (ESIA) Process for the Kariba Dam Rehabilitation Project

The Zambezi River Authority (ZRA) is proposing to rehabilitate some of the support infrastructure of the Kariba Dam; namely the plunge pool and spillway (including the installation of an emergency spillway gate).

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- Project description;
- Impacts assessment; and
- Recommendations and / or mitigation measures as suggested by the various specialists' on the project.

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Thank you for your participation.

Yours Sincerely,

Mhapdon

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, Woodlaned 2148, Johannesburg, South Africa

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The Director Zimbabwe Tourism Authority 55 Samora Machel Avenue Harare

09 April 2015

Dear Sir or Madam,

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Directors

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

From:	Hastings Chibuye <katubwa@zambezicommission.org></katubwa@zambezicommission.org>
Sent:	08 April 2015 11:09 AM
То:	Janet Mkhabela
Subject:	Re: Presentation of Draft ESIA ZAMCOM

Thank you for the information.

Regards

**Hastings** Chibuye

Programme Manager - Water Resources Information Systems Zambezi Watercourse Commission (ZAMCOM)

128 Samora Machel Avenue

Harare, Zimbabwe

Tel: +263 4 253 361/3

Cell: <u>+263 777937064</u>

## "Drink waters out of thine own cistern, and running waters out of thine own well". Proverbs 5:15

On Wed, Apr 8, 2015 at 10:59 AM, Janet Mkhabela <<u>Janet.Mkhabela@erm.com</u>> wrote:

Dear Mr Chibuye,

Thank you for your communication below. Please note that our Zimbabwean partners visited your office and spoke to Thembie Dube on the 5<sup>th</sup> March 2015, please see attachment attendance register. The draft ESIA engagements for the project were completed on March 23<sup>rd</sup> 2015. As such, we can no longer arrange another meeting to meet with you individually and the ESIA report is currently being reviewed by EMA and ZEMA. The best I can do right now is to give you a copy of the Non-Technical Summary (NTS) of the ESIA for your perusal (attached on this communication). If you have any questions that arising from your perusal of the NTS; please contact me and I will try to address them for you.

Hope the above provides some clarity on the matter. Please don't hesitate to contact me for further enquiries.

Thanks and kind regards,

Janet Mkhabela

#### ERM Southern Africa (Pty) Ltd

T +27 21 681 5400 | F +27 21 686 0736 | M +27 79 388 7725

From: Hastings Chibuye [mailto:katubwa@zambezicommission.org]
Sent: Wednesday, April 01, 2015 11:10 AM
To: Janet Mkhabela
Subject: Presentation of Draft ESIA ZAMCOM

Dear Janet,

Kindly advise when you will present your draft report as indicated in your letter of 3rd March, 2015. You can contact the Executive Secretary once you come up with the date.

regards

Hastings

Hastings Chibuye

**Programme Manager - Water Resources Information Systems** 

Zambezi Watercourse Commission (ZAMCOM)

128 Samora Machel Avenue

Harare, Zimbabwe

Tel: <u>+263 4 253 361</u>/3

Cell: <u>+263 777937064</u>

Thousands have lived without love, not one without water.

W.H. Auden

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From:	Janet Mkhabela
Sent:	09 April 2015 02:22 PM
То:	'harare@trafficsafety.co.zw'
Subject:	Notification of the Environmental and Social Impact Assessment (ESIA) Process for
	the Kariba Dam Rehabilitation Project
Attachments:	Kariba Dam Rehabilitation_ESIA _NTS.pdf; Traffic Safety Council of Zimbabwe.pdf

Dear Sir or Madam,

Please find attached a notification letter addressed to the Traffic Safety Council of Zimbabwe as well as a copy of a Non-technical Summary of an ESIA for the proposed Kariba Dam rehabilitation project.

Kind Regards Janet Mkhabela Consultant

## ERM Southern Africa (Pty) Ltd

2nd Floor | The Great Westerford | 240 Main Road | Newlands | 7700 | South Africa T +27 21 681 5400 | F +27 21 686 0736 | M +27 79 388 7725 E janet.mkhabela@erm.com | W www.erm.com



From:	Janet Mkhabela
Sent:	09 April 2015 02:20 PM
То:	'postmaster@mines.gov.zw'
Subject:	Notification of the Environmental and Social Impact Assessment (ESIA) Process for
	the Kariba Dam Rehabilitation Project
Attachments:	Ministry of Mines and Mining Development.pdf; Kariba Dam Rehabilitation_ESIA _NTS.pdf

Dear Sir or Madam,

Please find attached a notification letter addressed to the Permanent Secretary: Ministry of Mines and Mining Development as well as a copy of a Non-technical Summary of an ESIA for the proposed Kariba Dam rehabilitation project.

Kind Regards Janet Mkhabela Consultant

#### ERM Southern Africa (Pty) Ltd

2nd Floor | The Great Westerford | 240 Main Road | Newlands | 7700 | South Africa T +27 21 681 5400 | F +27 21 686 0736 | M +27 79 388 7725 E janet.mkhabela@erm.com | W www.erm.com



From:	Janet Mkhabela
Sent:	09 April 2015 02:17 PM
То:	'info@ztazim.co.zw'
Subject:	Notification of the Environmental and Social Impact Assessment (ESIA) Process for
-	the Kariba Dam Rehabilitation Project
Attachments:	Zimbabwe Tourism Authority.pdf; Kariba Dam Rehabilitation_ESIA _NTS.pdf

Dear Sir or Madam,

Please find attached a notification letter addressed to the Director: Zimbabwe Tourism Authority as well as a copy of a Non-technical Summary of an ESIA for the proposed Kariba Dam rehabilitation project.

Kind Regards Janet Mkhabela Consultant

#### ERM Southern Africa (Pty) Ltd

2nd Floor | The Great Westerford | 240 Main Road | Newlands | 7700 | South Africa T +27 21 681 5400 | F +27 21 686 0736 | M +27 79 388 7725 E janet.mkhabela@erm.com | W www.erm.com



From:	Janet Mkhabela
Sent:	09 April 2015 02:01 PM
То:	'finance@zimtreasury.gov.zw'
Subject:	Notification of the Environmental and Social Impact Assessment (ESIA) Process for
	the Kariba Dam Rehabilitation Project
Attachments:	Notification Letter_ Ministry of Finance and Economic Development.pdf; Kariba
	Dam ESIA _NTS.pdf

Dear Sir or Madam,

Please find attached a notification letter addressed to the Permanent Secretary: Ministry of Finance and Economic Development as well as a copy of a Non-technical Summary of an ESIA for the proposed Kariba Dam rehabilitation project.

Kind Regards Janet Mkhabela Consultant

#### ERM Southern Africa (Pty) Ltd

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From:	Janet Mkhabela
Sent:	09 April 2015 02:01 PM
То:	'nkudenga@transcom.gov.zw'
Subject:	Notification of the Environmental and Social Impact Assessment (ESIA) Process for
	the Kariba Dam Rehabilitation Project
Attachments:	ESIA_Notification Letter_Ministry of Transport and Infrastructural Development.pdf;
	Kariba Dam ESIA _NTS.pdf

Dear Sir or Madam,

Please find attached a notification letter addressed to the Permanent Secretary: Ministry of Transport Infrastructural Development as well as a copy of a Non-technical Summary of an ESIA for the proposed Kariba Dam rehabilitation project.

Kind Regards Janet Mkhabela Consultant

#### ERM Southern Africa (Pty) Ltd

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From:	Janet Mkhabela
Sent:	09 April 2015 02:32 PM
То:	'info@tourism.gov.zw'
Subject:	Notification of the Environmental and Social Impact Assessment (ESIA) Process for
	the Kariba Dam Rehabilitation Project
Attachments:	Ministry of Tourism and Hospitality Industry.pdf; Kariba Dam Rehabilitation_ESIA _NTS.pdf

Dear Sir or Madam,

Please find attached a notification letter addressed to the Permanent Secretary: Ministry of Tourism and Hospitality Industry as well as a copy of a Non-technical Summary of an ESIA for the proposed Kariba Dam rehabilitation project.

Kind Regards Janet Mkhabela Consultant

#### ERM Southern Africa (Pty) Ltd

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From:	Janet Mkhabela
Sent:	09 April 2015 02:14 PM
То:	'postmaster@moha.gov.zw'
Subject:	Notification of the Environmental and Social Impact Assessment (ESIA) Process for
	the Kariba Dam Rehabilitation Project
Attachments:	ESIA_Notification Letter_ Ministry of Home Affairs.pdf; Kariba Dam ESIA _NTS_3.pdf

Dear Sir or Madam,

Please find attached a notification letter addressed to the Permanent Secretary: Ministry of Home Affairs as well as a copy of a Non-technical Summary of an ESIA for the proposed Kariba Dam rehabilitation project.

Kind Regards Janet Mkhabela Consultant

#### ERM Southern Africa (Pty) Ltd

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From:	Janet Mkhabela
Sent:	09 April 2015 02:23 PM
То:	'n.gota@unesco.org'
Subject:	Notification of the Environmental and Social Impact Assessment (ESIA) Process for
	the Kariba Dam Rehabilitation Project
Attachments:	UNESCO.pdf; Kariba Dam Rehabilitation_ESIA _NTS.pdf

Dear Sir or Madam,

Please find attached a notification letter addressed to the Director: UNESCO as well as a copy of a Non-technical Summary of an ESIA for the proposed Kariba Dam rehabilitation project.

Kind Regards Janet Mkhabela Consultant

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# Chiefs

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09 April 2015

His Royal Highness Chief Mola,

## Notification of the Environmental and Social Impact Assessment (ESIA) Process for the Kariba Dam Rehabilitation Project

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Thank you for your participation.

Yours Sincerely,

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Ms. Janet Mkhabela Social Specialist

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09 April 2015

His Royal Highness Chief Musambakuruma,

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09 April 2015

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09 April 2015

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Yours Sincerely,

Mapda

Ms. Janet Mkhabela Social Specialist

Registered Company Address Environmental Resources Management Southern Africa (Pty) Ltd 1<sup>st</sup> 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 Bassingthwaighte Jeremy Soboil John Simonson (UK) Tania Swanepoel

2<sup>nd</sup> 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



09 April 2015

His Royal Highness Chief Nyamhunga,

## Notification of the Environmental and Social Impact Assessment (ESIA) Process for the Kariba Dam Rehabilitation Project

The Zambezi River Authority (ZRA) is proposing to rehabilitate some of the support infrastructure of the Kariba Dam; namely the plunge pool and spillway (including the installation of an emergency spillway gate).

In order to undertake the proposed rehabilitation activities an Environmental and Social Impact Assessment (ESIA) process is required. The Kariba Dam Rehabilitation Project is not a scheduled activity under the Zambian and Zimbabwean Environmental Legislation; however, the ZRA has committed to comply with international guidelines and standards, and as such is required to undertake a full ESIA for the Project. In addition to international guidelines and standards, the ESIA will also conform and meet the environmental regulatory requirements for both Zambia and Zimbabwe. The ZRA has commissioned Environmental Resources Management Southern Africa (Pty) Ltd (ERM) in partnership with Black Crystal Consulting (Pvt) Ltd (Zimbabwe) as independent environmental consultants, to undertake the ESIA. The ESIA team submitted the Prospectus and Scoping Report for the Project (including the Terms of Reference) to EMA and ZEMA in January 2015; and received approval of these reports on the 13<sup>th</sup> February 2015.

Subsequent to the above, the draft ESIA report has been submitted, which includes detailed specialists' studies and impact assessments, to EMA and ZEMA for review. Whilst reviewing the ESIA report, EMA has identified Your Highness as one of the key stakeholders for the proposed Project and associated ESIA process; and has requested that ERM includes His Royal Highness into the project stakeholder database and to provide His Royal Highness with the relevant project information.

To address EMA's request, we have attached a copy of the Non-Technical Summary (NTS) of the ESIA report for your perusal. The NTS provides the following project information:

• Project description;

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



Impacts assessment; and .

Recommendations and / or mitigation measures as suggested by the various specialists' on the project.

Please note that all enquiries and comments on the NTS can be sent directly to Mr. Chris Mushava of EMA. His contact details are: email: mushavac@gmail.com; and telephone number (04) 705671-3 / 705661-2.

Thank you for your participation.

Yours Sincerely,

Mapda

Ms. Janet Mkhabela Social Specialist

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## 16 Appendix C – IBAT Proximity Report



# Proximity Report

Country: Zambia

Location: [ -16.3, 28.8 ]

Date of analysis: 12 October 2020 (GMT)

Size of site: 689 km<sup>2</sup>

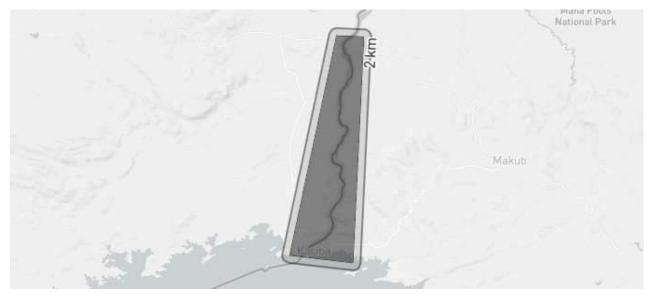
Buffers applied: 2 km

Generated by: Ruth Tiffer-Sotomayor

Organisation: World Bank

## Overlaps with:





Displaying project location and buffers: 2 km





#### About this report

This report presents the results of [1485-11722] proximity analysis to identify the biodiversity features and species which are located within the following buffers: 2 km.

This report is one part of a package generated by IBAT on 12 October 2020 (GMT) that includes full list of all species, protected areas, Key Biodiversity Areas in CSV format, maps showing the area of interest in relation to these features, and a 'How to read IBAT reports' document.

## Data used to generate this report

- UNEP-WCMC and IUCN, 2020. Protected Planet: The World Database on Protected Areas (WDPA)[On-line], Cambridge, UK: UNEP-WCMC and IUCN. Available at: www.protectedplanet.net October 2020.
- BirdLife International (on behalf of the KBA Partnership), 2020. Key Biodiversity Areas October 2020.
- IUCN, 2020. IUCN Red List of Threatened Species July 2020.











### **Protected Areas**

The following protected areas are found within 2 km of the area of interest. For further details please refer to the associated csv le in the report folder.

Area name	Within buffer of
Charara	2 km
Hurungwe	2 km
Lake Kariba	2 km
Lukwechele	2 km

#### Key Biodiversity Areas

The following key biodiversity areas are found within 2 km of the area of interest. For further details please refer to the associated csv le in the report folder.

Area name	Distance
Middle Zambezi Valley	2 km
Mutulanganga	2 km

### IUCN Red List of Threatened Species

The following threatened species are potentially found within 50km of the area of interest.

For the full IUCN Red List please refer to the associated csv in the report folder.

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
Diceros bicornis	Black Rhino	MAMMALIA	CR	increasing	Terrestrial







# BAT

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
Diceros bicornis ssp. minor	South-eastern Black Rhino	MAMMALIA	CR	stable	Terrestrial
Oreochromis mortimeri	Kariba Tilapia	ACTINOPTERYGII	CR	decreasing	Freshwater
Necrosyrtes monachus	Hooded Vulture	AVES	CR	decreasing	Terrestrial, Freshwater
Gyps africanus	White-backed Vulture	AVES	CR	decreasing	Terrestrial, Freshwater
Trigonoceps occipitalis	White-headed Vulture	AVES	CR	decreasing	Terrestrial
Cycloderma frenatum	Zambezi Flapshell Turtle	REPTILIA	EN	decreasing	Terrestrial, Freshwater
Lycaon pictus	African Wild Dog	MAMMALIA	EN	decreasing	Terrestrial
Nymphoides tenuissima		MAGNOLIOPSIDA	EN	unknown	Freshwater
Balearica regulorum	Grey Crowned Crane	AVES	EN	decreasing	Terrestrial, Freshwater
Gyps coprotheres	Cape Vulture	AVES	EN	decreasing	Terrestrial
Torgos tracheliotos	Lappet-faced Vulture	AVES	EN	decreasing	Terrestrial
Aquila nipalensis	Steppe Eagle	AVES	EN	decreasing	Terrestrial
Ardeola idae	Madagascar Pond-heron	AVES	EN	decreasing	Terrestrial, Marine, Freshwater







Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
Acinonyx jubatus	Cheetah	MAMMALIA	VU	decreasing	Terrestrial
Hippopotamus amphibius	Hippopotamus	MAMMALIA	VU	stable	Terrestrial, Marine, Freshwater
Loxodonta africana	African Elephant	MAMMALIA	VU	increasing	Terrestrial
Smutsia temminckii	Temminck's Pangolin	MAMMALIA	VU	decreasing	Terrestrial
Panthera leo	Lion	MAMMALIA	VU	decreasing	Terrestrial
Panthera pardus	Leopard	MAMMALIA	VU	decreasing	Terrestrial
Oreochromis andersonii	Threespot Tilapia	ACTINOPTERYGII	VU	decreasing	Freshwater
Oreochromis macrochir	Greenhead Tilapia	ACTINOPTERYGII	VU	unknown	Freshwater
Oreochromis mossambicus	Mozambique Tilapia	ACTINOPTERYGII	VU	decreasing	Freshwater
Oxyura maccoa	Maccoa Duck	AVES	VU	decreasing	Terrestrial, Freshwater
Lybius chaplini	Zambian Barbet	AVES	VU	decreasing	Terrestrial
Bucorvus leadbeateri	Southern Ground-hornbill	AVES	VU	decreasing	Terrestrial, Freshwater







Bugeranus carunculatus	Wattled Crane	AVES	VU	decreasing	Terrestrial, Freshwater
Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
Aquila rapax	Tawny Eagle	AVES	VU	decreasing	Terrestrial, Freshwater
Polemaetus bellicosus	Martial Eagle	AVES	VU	decreasing	Terrestrial, Freshwater
Sagittarius serpentarius	Secretarybird	AVES	VU	decreasing	Terrestrial
Falco fasciinucha	Taita Falcon	AVES	VU	decreasing	Terrestrial
Egretta vinaceigula	Slaty Egret	AVES	VU	decreasing	Freshwater



BirdLife 





### **Recommended citation**

IBAT Proximity Report. Generated under licence 1485-11722 from the Integrated Biodiversity Assessment Tool on 12 October 2020 (GMT). <u>www.ibat-alliance.org</u>

#### How to use this report

This report provides an indication of the potential biodiversity-related features - protected areas, key biodiversity areas and species - close to the speci ed location. It provides an early indication of potential biodiversity concerns, and can provide valuable guidance in making decisions. For example, this information can be helpful when assessing the potential environmental risk and impact of a site, categorising investments/projects, preparing the terms of reference for an impact assessment, focusing attention on key species of conservation concern and sites of known conservation value, and reviewing the results of an impact assessment.

The report does not provide details of potential indirect, downstream or cumulative impacts. Furthermore, the report should be regarded as a "rst-step", providing a set of conservation values sourced from global data sets, and is not a substitute for further investigation and due diligence, especially concerning national and/or local conservation priorities.







### 17 Appendix D - General Requirements

### 17.1 Site Establishment

#### 17.1.1 Site Division

The Contractor will restrict all activities, materials, equipment and personnel to within the area specified, and shall restrict activities to only those areas that are necessary to undertake the works.

A Method Statement detailing the layout and method of establishment of the temporary construction camp, all buildings, offices, lay down areas, fuel storage areas, batching areas and other infrastructure required for the running of the Project shall be submitted.

Disturbed areas rather than pristine or intact landscape areas will preferably be used for the temporary construction camp.

#### 17.1.2 Site Demarcation

The Contractor shall erect and maintain permanent and/ or temporary fences of the type and in the locations directed by the Engineer. Such fences shall, if so specified, be erected before undertaking designated activities.

#### 17.1.3 Site Clearance

If topsoil / top material is removed from areas cleared of vegetation, it will be retained for future landscaping use. Top material will exclude litter, building rubble, alien plant material or any other waste. All topsoil, and specifically any topsoil from areas which are likely to contain bulbs, must be stripped and stockpiled for re-use in landscaped areas. This will constitute at least a 300 mm layer.

Topsoil will be stored in areas demarcated by the EHS Manager and Engineer and in piles not higher than 2 m, and may not be removed from the site, or used for any purpose other than in the final landscaping of the site. The stockpiles will not be compacted or disturbed, and will be domed at the top to promote runoff. The period between the stockpiling of topsoil and its utilization will be as short as possible, and ideally the topsoil should be transferred to its intended site of use immediately following site clearance and stockpiling. This would also avoid double handling.

Stockpiles that are to be stored for less than three months will be covered with shade-cloth or geotextile fabrics or similarly suitable material to prevent erosion, and kept moderately moist in order to maintain the vitality of the soil. If stockpiles are to be stored for more than three months a protective vegetation layer must be established to cover topsoil stockpiles in order to protect them against erosion and desiccation. The stockpile must be kept moist in order to maintain the vitality of the vegetation may not consist of invasive alien vegetation, but must comprise grass or ground covers.

### 17.2 General Requirements During the Rehabilitation Works

#### 17.2.1 Materials Handling, Use and Storage

The Contractor will ensure that any delivery drivers are informed of all procedures and restrictions (including "no go" areas) required to comply with the ESMP. The Contractor shall

ensure that these delivery drivers are supervised during off loading, by someone with an adequate understanding of the requirements of the ESMP.

Materials will be appropriately secured to ensure safe passage between destinations. Loads including, but not limited to, sand, stone chips, fine vegetation, refuse, paper and cement, will have appropriate cover to prevent them spilling from the vehicle during transit. The Contractor will be responsible for any clean up resulting from the failure by his employees or suppliers to properly secure transported materials.

All manufactured and/ or imported material will be stored within the Contractor's temporary construction camp. All lay down areas outside of the temporary construction camp will be subject to the Engineer's approval.

All building materials will be stored at least 50 m away from aquatic ecosystems and the areas bunded appropriately such that there will be no runoff from these areas towards aquatic systems. All building materials will be removed after rehabilitation works.

#### 17.2.2 Fuel (Petrol and Diesel) and Oil

All fuel is to be stored within a demarcated area in the Contractor's temporary construction camp. No refuelling of vehicles or machinery is to take place outside of this demarcated area unless authorised by the Engineer. The Engineer will be advised of the area that the Contractor intends using for the storage of fuel.

The Contractor will ensure that all liquid fuels (petrol and diesel) are stored in tanks with lids, which are kept firmly shut. Only empty and externally clean tanks may be stored on the bare ground. All empty and externally dirty tanks will be sealed and stored in an area where the ground has been protected.

Tanks containing fuels will be situated on a smooth impermeable surface (plastic or concrete) base with a bund (if plastic, it must have sand on top to prevent perishing) to contain any possible spills and prevent infiltration of fuel into the ground. The impermeable lining will extend to the crest of the bund and the volume inside the bund will make up 110 percent of the total capacity of all the storage tanks.

The floor of the bund will be sloped towards an oil trap or sump to enable any spilled fuel to be removed. An Enretech or similar hydrocarbon absorption/remediation product approved by the EHS Manager will be installed in the sump to reduce the risk of pollution. Bulk fuel storage (which is anticipated to include Above Ground Storage Tanks [ASTs] with a volume range of approximately 4.5 to 46 m3) and bunded areas will have overhead cover to prevent rain from entering the bunded area. The Contractor will keep fuel under lock and key at all times.

If fuel is dispensed from, the proper dispensing equipment will be used, and the drum will not be tipped in order to dispense fuel. The dispensing mechanism used to dispense fuel from the drums will be stored in a waterproof container when not in use.

During fuel tanker delivery, the tanker driver must be present at all times during offloading of product. An emergency cut-off switch must be installed to immediately stop fuel delivery should an accident occur. An anti-flash nozzle must be installed at the end of the vent pipe with a fuel dispenser equipped with an automatic cut-off switch to prevent fuel tank overfills.

No smoking will be allowed in the vicinity of the stores. Symbolic safety signs depicting "No Smoking", "No Naked Lights" and "Danger" are to be provided. The volume capacity of the tank will be displayed. The product contained within the tank will be clearly identified using the emergency information system. Any electrical or petrol-driven pump will be equipped and positioned, so as not to cause any danger of ignition of the product.

Areas for storage of fuels and other flammable materials will comply with standard fire safety regulations and may require the approval of the Municipal Fire Prevention Officer. The Contractor will ensure that there is adequate fire-fighting equipment at the fuel stores.

Where reasonably practical, vehicles and equipment shall be refueled at a designated re-fueling area or at the workshop as applicable. If it is not reasonably practical, then the surface under the temporary refueling area will be protected against pollution and drip trays used to the reasonable satisfaction of the Engineer prior to any refueling activities. The Contractor will ensure that there is always a supply of appropriate material readily available to absorb/ breakdown and where possible be designed to encapsulate minor hydrocarbon spillage. The quantity of such materials will be able to handle a minimum of 200 litres of hydrocarbon liquid spill. This material must be approved by the Engineer prior to any refueling or maintenance activities.

#### **17.2.3** Ablution Facilities

Washing, whether of the person or of personal effects, and acts of excretion and urination are strictly prohibited other than at the facilities provided. Latrine and ablution facilities and firstaid services will comply with the regulations of the local authority concerned and shall be maintained in a clean and sanitary condition to the satisfaction of the Engineer. These facilities will include water borne sewage connected to the local authority mains for the contractors' camp and portable chemical toilets at the active working areas. If connection to the local authority mains is not possible, the use of sceptic tanks and soak away systems will be adopted and implemented. The ablution facilities for men and female shall be separated and with separate entrances to reduce scenarios that may induce GBV.

The Contractor will provide suitable sanitary arrangements at the Contractor's temporary construction camp and approved points around the designated work area to allow easy access for all employees on the site. Project staff are not permitted to commence with work on the site without suitable toilet facilities being available for them.

Sanitary facilities will be located within 100 m from any point of work, but not closer than 50 m to any water body. One chemical toilet is to be provided on site for every 15 contract personnel at each working area. These toilets must have doors and locks and shall be secured to prevent them blowing over. Toilet paper will be provided.

The Contractor will ensure that suitable sanitation facilities are provided for or by all his subcontractors on the site.

Chemical (portable) toilets are to be periodically emptied on a weekly basis by an approved and reputable contractor. The contractor will ensure that no spillage occurs when the toilets are cleaned or emptied and that the contents are removed from the site. Discharge of waste from toilets into the environment and burial of waste is strictly prohibited.

The Contractor shall keep the toilets in a clean, neat and hygienic condition. If the Contractor fails to provide and/or maintain all site sanitation facilities in a clean and hygienic condition, the Engineer may order the Contractor to suspend any or all work on the site until these requirements are met. No payment shall be made for any delays or disruption of the Works caused thereby nor shall extensions of time be granted for such delays.

#### 17.2.4 Eating Areas

The Contractor shall designate eating areas to the approval of the Engineer, which will be clearly demarcated. Sufficient bins will be present in this area. Any cooking on site will be done in a designated area with well-maintained cookers with fire extinguishers present.

#### 17.2.5 Drinking Water

The Contractor will ensure that drinking water is available for all staff on the site. If no potable water source is available, then the Contractor will import drinking water to the site.

#### 17.2.6 Site Structures

The Contractor will supply and maintain adequate and suitable sheds for the storage of materials. Sheds for the storage of materials that may deteriorate or corrode if exposed to the weather will be weatherproof, adequately ventilated and provided with raised floors.

All site establishment components (as well as equipment) will be positioned to limit visual intrusion and the size of the area disturbed. The type and colour of roofing and cladding materials comprising the Contractor's temporary structures will be selected to reduce reflection. The Contractor's camp will be fenced, and the camp area will be screened via the attachment of shade cloth or equivalent to the fence surrounding the site camp.

#### 17.2.7 Workshop, Equipment Maintenance and Storage

Where practical, all maintenance of plant on the site will be performed in the workshop. If it is necessary to do maintenance outside of the workshop area, the Contractor will obtain the approval of the Engineer prior to commencing activities.

The Contractor will ensure that the workshop and other plant maintenance facilities, including those areas where, after obtaining the Engineer's approval, the Contractor carries out emergency plant maintenance, there is no contamination of the soil or vegetation. The workshop will have a smooth impermeable floor either constructed of concrete or thick plastic covered with sufficient sand to protect the plastic from damage. If constructed of concrete the floor will be bunded and sloped towards an oil trap or sump to contain any spillages of substances (e.g. oil). A Method Statement detailing the design and construction of the workshop must be submitted.

When servicing equipment, drip trays will be used to collect the waste oil and other lubricants. Drip trays will also be provided in active work areas for stationary plant (such as compressors) and for "parked" plant (such as scrapers, loaders, vehicles).

All vehicles and equipment will be kept in good working order and serviced regularly. Leaking equipment will be repaired immediately or be removed from the site

The washing of equipment will be restricted to preventative maintenance requirements only. All washing will be undertaken in the workshop or maintenance areas, and these areas must be equipped with a suitable impermeable floor and sump/oil trap. The use of detergents for washing will be restricted to low phosphate and nitrate containing and low sudsing-type detergents.

#### 17.2.8 "No go" Areas

The demarcated buffer areas around sensitive ecological or heritage areas are to be "no go" areas. The Contractor will ensure that, insofar as he has the authority, no person, machinery, equipment or material enters the "no go" areas at any time.

#### **17.2.9** Construction Personnel Information Posters

The Contractor will erect and maintain information posters for the information of all employees depicting actions to be taken to ensure compliance with aspects of the environmental and social mitigation measures. Such posters will be erected at the eating areas and any other locations specified by the Engineer.

#### 17.2.10 Concrete and Cement Work

Cement powder has a high pH value. Spillage of dry cement powder and concrete slurry will affect both soil and water pH adversely. Careless handling of cement products resulting in spillage can have detrimental effects on the surrounding environment.

The location of the batching area (including the location of cement stores and sand and aggregate stockpiles) will be indicated on the site layout plan and approved by the EHS Manager. A Method Statement indicating the layout and preparation of this facility is required in this regard. Cement is to be stored in a secure weatherproof location to avoid contamination of the environment.

All runoff from batching areas will be strictly controlled so that contaminated water does not enter storm water or run-off into the Zambezi River. Plastering boards and mixing trays will be used at all mixing and supply points. Cleaning of equipment and flushing of mixers will not result in pollution of the surrounding environment.

Suitable screening and containment will be in place to prevent windblown contamination associated with bulk cement silos, loading and batching. All excess concrete will be physically removed to an approved waste site on completion of the concrete pour section and disposed of.

#### 17.2.11 Safety

The Contractor will always observe proper and adequate safety precautions on the site. Telephone numbers of emergency services, including the local firefighting service, shall be posted conspicuously in the Contractor's office near the telephone. A KDRP internal fining system (economic instrument) may be developed and adopted to deter offenders is breaches indicate a recurring trend. The system may apply to all KDRP parties.

#### 17.2.12 Security

With the possible exception of any security staff who may be required to be present overnight at the Contractor's temporary construction camp, no personnel will be permitted to live on the site. Security staff must be provided with heating and cooking facilities (in order that they do not need to light fires), and access to toilet facilities and communication equipment.

#### 17.2.13 Grievance Procedures

The Contractor will develop a grievance procedure to ensure fair and prompt resolution of problems arising from the Project. The grievance procedure will be underpinned by the following principles and commitments:

- Implement a transparent grievance procedure, and disseminate key information to directly impacted stakeholders;
- Implement and maintain a complaint register;
- Seek to resolve all grievances timeously; and
- Maintain full written records of each grievance case and the associated process of resolution and outcome for transparent, external reporting.

The responsibility for resolution of grievances will lie with the ZRA and its Contractors.

#### 17.2.14 Protection of Natural Features

The Contractor will not deface, paint, damage or mark any natural features (e.g. rock formations and trees) situated in or around the site for survey or other purposes unless agreed beforehand with the Engineer. Any features affected by the Contractor in contravention of this clause will be restored/ rehabilitated to the satisfaction of the Engineer.

The Contractor will not permit his employees to make use of the Zambezi River for the purposes of swimming, personal washing and the washing of machinery or clothes.

#### 17.2.15 Working Hours

Working hours in terms of the planning approval shall be adhered to. If works are to take place outside of normal working hours, the EHS Manager and the Engineer are to be notified and disturbance to the surrounding residents or land users is to be prevented. The Engineer will, where required, in turn notify the Local Authority of work done outside of normal working hours.

#### 17.2.16 Excavation and Trenching

During excavation and trenching activities, care is to be taken to ensure that the stockpiling of top material is kept separate from sub-soils. Top material thus saved is to be replaced as top material and is to be the final layer when back-filling. The Contractor will reinstate all working areas to the satisfaction of the Engineer.

Areas opened for trenching will be restricted to the minimum required to be worked in and closed up in a working day or as dictated by technical requirements such as length of pipe or cable, in order to prevent them from posing safety hazards to people, traffic and animals and to prevent rainwater erosion. Trenches will be re-filled to the same level as (or slightly higher, to allow for settlement) the surrounding land surface to minimise erosion. Excess soil will be stockpiled in an appropriate manner. No stockpiling must occur within 50 m of a water course.

In the event of material removed during trenching being excessive after backfilling or being unsuitable as overburden, the excess material must be removed from the site to a site agreed upon by the Engineer and, where applicable, the Local Authority

#### 17.2.17 Temporary Site Closure

If the site is closed for a period exceeding one week, a checklist procedure will be carried out by the Contractor in consultation with the EHS Manager. The Contractor is to check the site and report to the Engineer regarding the following:

Fuels / flammables / hazardous materials stores:

- Ensure fuel stores are as low in volume as possible;
- No leaks;
- Outlet secure / locked;
- Bund empty;
- Fire extinguisher serviced and accessible;
- Secure area from accidental damage, e.g. vehicle collision;
- Emergency and Management telephone numbers to be available and displayed; and
- Adequate ventilation.

#### Other:

- All trenches and manholes secured;
- Fencing and barriers in place;

- Notice boards applicable and secured;
- Security persons briefed and have facility for contact;
- Night hazards checked, e.g. reflectors, lighting, traffic signage;
- Fire hazards identified local authority notified of any potential threats, e.g. large brush stockpiles, fuels etc.;
- Pipe stockpile wedged / secured;
- Scaffolds secure; and
- Inspection schedule and log by security or contracts staff.

The EHS Manager is to check and report to the Engineer regarding the following issues:

- Wind and dust mitigation in place, e.g. straw, brush packs, irrigation;
- Slopes and stockpiles at stable angle;
- Landscape areas watering schedules and supply secured;
- Fuels/hazardous substances stores secure;
- Cement and materials stores secured;
- Toilets empty and secured;
- Refuse bins empty and lids secured;
- Bunding clean and treated, e.g. Spill Sorb or Enretech #1 powder;
- Drip trays empty and secure; and
- Structures vulnerable to high winds secure.

The Contractor is to ensure that all temporary closure requirements are met before leaving the site.

#### 17.2.18 Chinhoyi Quarry

The Contractor will need to confirm that the Chinhoyi quarry site has current and up to date permits and quarrying guidelines prior to the commencement of rehabilitation and the sourcing of aggregate from the Chinhoyi Quarry.

### 17.3 Site Clean Up and Rehabilitation

#### 17.3.1 Site Clean Up

The Contractor will ensure that all temporary structures, equipment, materials, waste and facilities used for rehabilitation work purposes are removed upon completion of the rehabilitation works. Site clean-up shall be to the satisfaction of the Engineer and the EHS Manager.

#### 17.3.2 Rehabilitation

Where appropriate, the Contractor shall employ a suitably qualified person (a botanist with experience in restoration of grassland areas) to rehabilitate areas damaged by activities associated with rehabilitation works during the course of the Project, including quarry areas. The Contractor shall be responsible for rehabilitating areas identified by the EHS Manager and the Engineer or recommended by the aforementioned botanist. The Contractor's procedure for rehabilitation shall be approved by the EHS Manager and the Engineer and, where required, the Local Authority's environmental representative.

18 Appendix E – Health, Safety, Environmental and Social Requirements included in the ZRA / Contractor contracts

# **VOLUME 3** TECHNICAL SPECIFICATIONS SECTION 4

Health, Safety, Environmental and Social Requirements

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### **1** General Scope of Requirements and Facilities

### 1.1 General

The Contractor shall take full responsibility for the prevention of unhealthy or unsafe conditions and practices and for the promotion of healthy and safe working practices at the Site. Nothing specified herein shall relieve the Contractor of any obligation or responsibility in this regard and can be considered as the minimum requirements:

- Ensuring that all the workers have been provided with suitable health and safety induction, Personal Protective Equipment (PPE), information and training;
- Ensuring that all the visitors have been provided with suitable health and safety induction and have adequate PPE.

Safety equipment of "Approved Standard" shall be worn by all persons at all times whilst on the Works. "Approved Standard", for the purpose of this section, shall mean that are in accordance with the requirements of the prevalent laws enforced both in Zambia and Zimbabwe.

Suitable clothing, footwear, helmets, cap-lamps if underground, waterproofs, safety glasses, ear protectors, dust masks, gloves, goggles, harnesses, "self-rescuer" apparatus, breathing apparatus, etc., appropriate to the work being undertaken, shall be issued free of charge to and worn by all workers and supervisory personnel on and from the day of commencement of work. The workers shall be trained in the use of all such equipment before entering working areas or relevant designated areas.

If the Contractor fails to provide such clothing and equipment and training, the Supervisor shall be entitled to provide the same and recover the cost from the Contractor. Safety equipment and clothing issued to workers shall be replaced free of charge when no longer serviceable.

The Contractor shall erect and maintain all necessary temporary fencing, barricades, barriers, signs and lights for the prevention of accidents or unsafe practices to the satisfaction of the Supervisor. Signs shall include but not be limited to standard road signs, warning signs, danger signs, control signs and direction signs in addition to the safety notices specified elsewhere in this Clause. All such signs shall be clearly legible in both local languages and English, to the approval of the Supervisor's Representative, and the Contractor shall maintain them in a clean and legible condition for the duration of the works.

The Contractor shall provide and maintain all temporary gangways, ladders, staging and covers for protection against falling objects and debris on and about the Site necessary for the purposes of the Contract and shall remove such gangways, ladders, staging and protective covers when no longer required.

The Contractor shall conduct safety awareness programmes and campaigns throughout the duration of the Contract, including the use of prominent and strategically placed posters, audio-visual methods, etc.

The Contractor shall ensure that all sub-contractor, employees, suppliers, agents etc are fully aware of the environmental and social requirements detailed in the ESMP page 48

### **1.2 Health and Safety Policy**

Particular attention shall be paid to health and safety for labour-intensive operations and shall include but not be limited to the minimisation of hazards, establishment of safe working practices and blasting procedures, provision and use of protective equipment and clothing, provision for first-aid equipment and care, transport of accident victims, and on-site welfare arrangements such as sanitation and drinking water.

The Contractor shall designate eating areas to the approval of the Engineer, which will be clearly demarcated. Sufficient bins will be present in this area.

Any cooking on site will be done in a designated area with well-maintained cookers with fire extinguishers present see 5.5.4 page 56 of ESMP

For the purpose of implementing the health, safety and environment protection policy, the Contractor shall constitute a duly empowered committee designated as the Health, Safety and Environment Committee which shall include, but not be limited to:

- 1) The Chief Medical Officer
- 2) The Safety Officer
- 3) One senior representative of the Contractor's supervisory staff
- 4) One representative of the labour force representing the various categories of workmen and labourers.

The composition of the committee shall be submitted to the approval of the Supervisor who may, if in his opinion the committee is not carrying out its duties with due diligence, order that a new committee be constituted.

The procedures described in the Health and Safety Plan shall not be less than those required by the Laws and Regulations of the Republics of Zambia and Zimbabwe (e.g. the factories act,) and will include but not be limited to:

- 1) The duties of the Medical Officer and his staff in respect of health and safety matters including periodic inspections of all work areas.
- 2) The duties of the Safety Officer and his staff including the proportion of their working time to be spent on health and safety duties.
- 3) Codes of practice to be used to ensure healthy and safe working conditions both on land and water and the management of hazardous conditions and materials.
- 4) Actions to be instigated in the case of emergencies involving injuries
- 5) Notification, investigation and recording of accidents. Monthly site accident and injury statistics shall be submitted to the Health, Safety and Environment Committee. Accident reporting procedures shall be agreed with the Supervisor. The Supervisor shall be notified immediately of any serious accidents.
- 6) Welfare facilities for workers on Site including facilities for sanitation, washing, storing and changing clothing, rest, and drinking water.
- 7) The arrangements for the frequency and occasions of routine and special meetings of the Health, Safety and Environment Committee, the keeping of records, rights and access to information and the right to amend the committee constitution by the committee in agreement with the Supervisor.
- 8) The arrangements for disseminating information, training and supervision to ensure compliance with the codes of practice.

The Supervisor may at any time order that the Health and Safety Policy be supplemented or revised completely or in part. The Supervisor may also serve on the Contractor a Notice of Contravention of the Health, Safety and Environment Policy. Such a notice will specify the nature of the contravention, and the time limit for rectification. In the event of failure to comply with a Notice of Contravention the Supervisor may arrange for work to be done to rectify the cause or order removal or suspension of the offending persons from site or close down the work area, as appropriate, at the Contractor's expense.

The Contractor may appeal to the Supervisor for modification of the terms of any Notice of Contravention before the expiry of the notice. Upon such appeal the Supervisor at his/her sole discretion may modify, withdraw or confirm the Notice.

### **1.3 Code of Practice within the Plan**

The code of practice shall be based on a recognised standard and shall be of no less a standard than that of Safety and Health in Building and Civil Engineering Work of the International Labour Office (Geneva) and shall not breach. The Contractor, in cooperation with the Health, Safety and Environment Committee, shall issue a working manual for construction safety that will be used as a site reference. Workers will be trained in safety matters throughout the Contract.

The Contractor must follow all the guidelines, plans and monitoring as set out in the "Environmental and Social Management Plan for the Kariba Dam Rehabilitation Project (Zambia & Zimbabwe) on the Zambezi River of January 2016 – Doc Ref 0264743

The Contractor shall maintain a Legal Register pertinent to the laws Zambia (Table 3.1 pg 20 of ESMP), to the laws of Zimbabwe (Table 3.2 pg 26 of ESMP) and International Guidelines (Table 3.3 pg 36 of ESMP)

### 1.4 Safety Officers

As part of the safety policy the Contractor shall appoint a Safety Officer (with suitable education and training and experience as a Safety Officer) and at least one Deputy Safety Officer who shall be responsible for ensuring that the safety policy and codes of practice are adhered to and in particular that appropriate safety signs and posters are located throughout the work site.

The Safety Officer shall be "on-call" on a 24-hour basis and shall carry out regular and random checks of all parts of the Site where work is taking place. The Safety Office or one of his Deputies shall be permanently on site during 24 hour working or when any activities of the Contractor are underway without exception.

Particular attention shall be given by the Safety Officer to aspects such as electrical installations, lighting, handrails, especially around all dangerous openings, access stairs, blasting procedures, removal of construction rubble, orderly storing and stacking of construction equipment and materials and general cleanliness of the Works. In addition the Safety Officer or his Deputy shall accompany the Supervisor on weekly safety inspections of the works and shall take due account of his requirements concerning matters of Safety.

Regular meetings with small groups of workers on specific health and safety topics shall be organised and chaired by the Safety Officer. These "tool box talks" shall be regularly scheduled and the Supervisor shall be informed about the agenda and the topics registered as well as the participants.

### **1.5 Epidemics and Hazardous Substances**

In the event of any outbreak of illness of a highly contagious or epidemic nature the Contractor shall comply with and carry out such regulations, orders and requirements as given in the Health Acts of the Republics of Zambia and Zimbabwe, or the local medical or sanitary authorities for the purpose of dealing with and overcoming the same.

The Contractor shall identify and keep records of all hazardous equipment, materials, or other substances and any other health hazards in his undertaking of the Contract. Newly created hazards or new hazardous equipment, materials or other substances brought on to Site shall be added to the record. The Contractor shall draft codes of practice appropriate to the said hazards in line with the requirements of the Environmental Protection and pollution Control of the Republic of Zambia and the Hazardous Substances Act of the Republic of Zimbabwe. The Supervisor shall be granted access to such records at all times.

The Contractor shall regularly check the site establishment and storage areas for Contractor's Equipment, transport vehicles and hazardous materials, for spillages and leaks. The Contractor shall make adequate provisions, to the satisfaction of the Supervisor, to ensure that such spillages of toxic materials are prevented from entering the groundwater, natural streams, the natural ground soils or areas outside the Site.

The Contractor shall ensure that all liquid fueld (petrol and diesel) are stroed in tanks with lids, which are kept firmly shut. Only empty and externally clean tanks may be stored on the bare ground. All empty and externally dirty tanks will be sealed and stored in an area when the ground has been protected

Tanks containing fuel will be situated on a smooth impermeable surface (plastic or concrete) base with a bund (if plastic, it must have sand on top to prevent perishing) to contain any possible spills and prevent infiltration of fuel into the ground. The impermeable lining will extend to the crest of the bund and the colume inside the bund will make up 110% of the total capacity of all the storage tanks. The floor of the bund will be sloped towards an oil trap or sump to enable any spilled fuel from being removed. A hydrocarbon absorption/remediation product approved by the ECO will be installed in the sump to reduce the risk of pollution (see also 3.7) see 5.5.2 page 55 of ESMP

Before leaving the Site, the Contractor shall provide the Supervisor with documentary proof that all such hazardous equipment or materials have been removed from the Site and disposed of in accordance with any relevant legislation and otherwise in a safe and appropriate manner. If such proof is not provided to the satisfaction of the Supervisor, he may not issue the Final Acceptance Certificate.

### **1.6 First Aid Training**

The Contractor shall, through the auspices of the Health, Safety and Environment Committee, institute and operate a basic first aid training programme to ensure that each foreman or work crew leader in control of 20 or more workmen is trained in first aid and possesses a valid certificate to that effect issued by the competent authorities, or equivalent qualification, within 3 months of his appointment. All First Aid qualified personnel will be identified to the Supervisor and will be issued with a green and white sticker to be worn on their hard hat. Alternatively, other workmen with aptitude shall be similarly trained, so that there is at least one person qualified in first-aid present on site within each group of 20 workmen.

### **1.7 First Aid Provisions**

The Contractor shall provide and maintain in ready condition (a regular register of checking the contents) boxes of first aid materials together with stretchers at prominently marked locations within 100 metres of each working site on the surface or as required by the Supervisor. The contents of each first aid box shall include but not be limited to:

- Wound cleaner (500 ml)
- Swabs for cleaning wounds
- Cotton wool for padding (250 g)
- Sterile gauze (5 packets)
- 1 pair forceps (for splinters)
- 1 pair scissors (100 mm)
- 2 cards of 6 safety pins
- 24 triangular bandages
- Sterile eyewash
- pairs disposable gloves
- **1.8 Transport of Labour**
- 6 roller bandages (80 mm x 5 m) 6 roller bandages (100 mm x 5 m) 2 rolls elastic adhesive (25 mm x 3 m) 2 anti-allergenic adhesive strip (25 mm) 2 packets adhesive dressing strips 6 large dressings (75 mm x 100 mm) 6 shell dressings (150 mm x 200 mm) 4 straight splints Eye pads

The Contractor shall be responsible for, and make provision for, the safe vehicular transport of all residential workers and supervisors between their site accommodation area and their work areas, and vice versa. The Contractor shall also be responsible for, and make provision for, the safe vehicular transport of all workers who are not living in the Contractor's labour accommodation from their private accommodation areas and their work areas, and vice versa. Under no circumstances shall workers be transported on flat bed trucks, rail or similar vehicles without acceptable form of side restraints and adequate seating. Weather proof covers shall be available for use at all times. The Contractor shall prevent overloading of vehicles.

### **1.9 Safety of Public**

Where the Public could be exposed to danger by any of the Site activities the Contractor shall as appropriate provide suitable warning horns or sirens and flagmen, barriers and/or warning signs in the local languages and English and close off access all to the approval of the Supervisor's Representative.

Where shown on the Drawings or instructed by the Supervisor the Contractor shall provide alternative safe access routes.

### **1.10 Explosives and Blasting**

The handling, storage and use of explosives shall be in accordance with the requirements of the Law of Zambia Vol.9 Chapter 115 Explosive Act.

The Contractor shall install and operate a siren of sufficient volume to be easily heard above the general site noise from all points within a radius of 2.0 km of surface blasts, including by those persons operating construction vehicles and machinery.

Hand operated sirens will only be accepted in areas of restricted access such as tunnel headings where access is fully controlled.

The Contractor shall submit details of his blasting procedures to the Supervisor for consent and shall ensure that such procedures are adhered to at all times. Relevant aspects of the procedures shall be agreed with the local authorities and disseminated as widely as possible amongst the local population no consent of the Supervisor shall relieve the Contractor of this responsibility.

The Contractor shall in particular adopt precautions when using explosives that will prevent scattering of fly-rock, stumps or other objects or debris outside the work area.

All blasters employed by the Contractor must be tested and certified by the competent Authorities.

### 1.11 Lightning

The Contractor shall take precautions against lightning with regard to earthing of metal work and conductors on site. Use shall be made of lightning warning equipment if electrically sensitive detonators are used for blasting.

### 1.12 Safety Notices, Signs, Posters and Information Notice Boards

The Contractor shall obtain, erect, and maintain all the required notice boards for surface and underground works in the form of pictograms to the approval of the Supervisor.

The Contractor shall erect and maintain notice boards for the dissemination of relevant safety information and safe work procedures. Notices should be published both in local languages as Approved by the Supervisor and English.

The boards shall be made up from durable materials to the satisfaction of the Supervisor that will not warp from variations in temperature or weathering, protected from rainfall if erected in outside locations. The board shall be a minimum of 2 m x 1.5 m in size and be mounted at a height of 1.5 m.

The Contractor shall keep the notice boards in good order with legible notices for the duration of working in any given contract area.

The relevant statutory regulations with respect to blasting shall be displayed at the entrance of the Plunge Pool and other areas where blasting may take place.

### 1.13 Ambulance

When any work is being carried out a fully functional and suitably equipped and dedicated ambulance (Minibus or van type) with a driver and a paramedical staff trained in First Aid shall be available as close to the site of works as is convenient and not obstruct with movement of construction machinery and personnel or performance of construction activity.

### 1.14 Health and Safety File

On completion of construction work the Contractor shall submit to the Supervisor a Health and Safety File. This shall be a record of information focusing on health, safety and environment risks specific to the main structures that will need to be dealt with during subsequent maintenance, repair and construction work.

The contents of the File will be agreed in advance with the Supervisor and may include but not be limited to the "as-built" drawings, the design criteria, details of construction methods and materials used, details of the equipment and maintenance facilities within the structure, maintenance procedures and requirements for the structure, manuals produced by specialist suppliers for plant and equipment installed as part of the structure, and details of location of utilities and services, including emergency and fire-fighting systems.

The File will contain a summary or introduction that presents the key elements of the File and acts as a guide to where the relevant information is stored.

### 1.15 Permits

The Contractor shall ensure that all the relevant approvals & permits have been obtained prior to the start of the rehabilitation activities on site page 36 of ESMP

### 2 Labour Relations

### 2.1 General

The Contractor's labour relations arrangements and procedures shall not be less than those required by the Employment Act, Employment (Special Provisions) and Employment of Young Persons and Children Acts of the Republic of Zambia and the Labour Relations and Social Security Act of the Republic of Zimbabwe. Where there may be a contradiction or conflict between the laws, which one will take precedence - in most cases the "highest" or "strictest" law

The Contractor shall propose the standards and procedures that will serve as the basis of the management of site labour relations. These procedures, subject to the consent of the Supervisor, shall be in force throughout the duration of the Contract.

Particular attention shall be given by the Contractor to aspects such as contracts of employment, company rules and regulations, conditions of employment, payment of wages, disciplinary procedures, grievance and dispute settlements, redundancy / retrenchment procedures, etc.

Relationships between the Contractor and his general labour shall be formalised. Talks, discussions and negotiations with elected worker representatives shall be convened at regular intervals, but not less than every three months. The Contracting Authority and Supervisor shall be granted observer status.

The Contractor shall provide free protective clothing to staff as appropriate to their respective duties and replace the same free of charge when worn-out and returned to stores.

The Contractor shall review wages and allowances at least annually. The minimum wage is applicable to which country - again the "highest" must be used

### 2.2 Contracts of Employment

All employees of the Contractor shall be issued with an employment contract in English that is to be signed by the employee and the Contractor. All employees shall attend an induction programme at which their terms of employment, site safety procedures, and environmental policies will be addressed.

The Employment Contract shall cover the personal particulars, job title, probation period, employment period, wages, overtime, deductions, payment method, hours of work, leave arrangements (paid/unpaid, public holidays), sick leave provisions, accommodation provisions, free meal or food allowance provisions, transport provisions, company rules, regulations and procedures, termination of employment and agreement clause.

### 3 Environmental Protection

### 3.1 General

For the purpose of ensuring that the Project is realised in full accordance with the Zambian and Zimbabwean Environmental Management Acts and their Regulations and with International Environmental laws and regulations, it has been established in an Environmental and Social Management Plan (ESMP).

The scope of the ESMP is to define the monitoring and management of specific environmental indicators.

In the performance of his works under the Contract the Contractor shall take all practicable steps necessary to conserve and protect the environment on and in the vicinity of the Site, through the Environmental Protection Plan described hereafter. Particular topics for consideration include:

a) Minimisation of disruption to local residents;

- b) Avoidance of pollution (air, land, and water, whether surface or underground);
- c) Preservation of flora and fauna;
- d) Avoidance of nuisance and hazard from noise and dust;
- e) Safe disposal of all liquid and solid wastes.

The Contractor shall follow the approved Emergency Preparedness Plan in case of a seismic event / extreme hydrological event / hazard to the works. The Emergency Preparedness Plan shall comply with the requirements of the Disaster Management Act of the Republic of Zambia and the Civil Protection Act of the Republic of Zimbabwe.

Unless otherwise specified, the cost of all measures needed to comply with this requirement shall be deemed to be included in the Contractor's rates.

#### Environmental and Social Education Awareness

The Contractor, in consultation with the ECO, shall arrange for a presentation to site staff to familiarise them with the environmental and social requirements of the rehabilitation works ESMP within fourteen (14) days from the commencement of works. The presentation should take cognizance of the level of education, designation and language preferences of the staff. General site staff would commonly receive a basic environmental and social awareness presentation or talk highlighting general environmental and social "do's and dont's", including good housekeeping practices. This information would be provided throughout works in the form of regular toolbox talks refer to 5.3.2 page 50 of ESMP (see also 1.4)

### **3.2 Method Statements**

The contractor shall compile and provide Method Statements to the ECO and the Engineer for approval prior to the rehabilitation works commencing. Method statements will be required for specific activities that are deemed or identified to pose a risk to environmental and/or which require site specific details beyond that contained in the ESMP or when requested by the Engineer

A Method Statement is a "live document" in that modifications are negotiated between the Contractor and the ECO/project management team, as circumstances unfold. Changes to, and adaptations of, Method Statements can be implemented with the prior consent of all parties. All Method Statements will form part of the rehabilitation works of the ESMP documentation and are subject to terms and conditions contained within the ESMP see 5.3.3 page 51 of ESMP. An format of the Method State is contained in Annexure A of the ESMP

#### 3.3 Community Relations

In locating and operating his plant and facilities and in executing the works the Contractor shall at all times, bear in mind and to the extent practicable minimise the impact of his activities on local communities. To this end, he shall liaise with the Supervisor. Any problem that cannot be resolved by the Contractor shall be referred to the Supervisor. If required by the Supervisor, a senior representative of the Contractor's staff shall participate in any meeting and sit on any committee set up to deal with community relations and social issues.

### 3.4 Environmental Protection Plan

The Contractor shall implement an Environmental Protection Plan on the Site. The Plan shall include operational details, and shall be in force throughout the duration of the Contract. The Plan shall be submitted together with the Detailed Schedule of Works and shall be subject to the approval of the Supervisor.

### 3.5 Environmental Officer

The Contractor shall have on his staff on Site for the duration of the Contract a designated officer qualified to promote and maintain sound environmental management during construction and specifically to implement the approved Environmental Protection Plan. This officer shall have authority to issue instructions and shall take precautionary measures to prevent environmental damage, including but not

limited to the establishment of environmentally-sound working practices, pollution prevention systems, pollution incident response and clean-up systems and equipment, and the training of staff and labour in these matters.

The Environmental Officer shall liaise with and report to the Environmental Control Officer as appointed by the Developer page 48 - 5.2.4 of ESMP

### 3.6 Prevention of Air Pollution and Hazards

The Contractor shall take all reasonable steps to minimise air pollution, whether from exhaust emissions, construction processes, construction traffic, or site operation.

The Contractor shall at all times operate his equipment and vehicles so as to minimise exhaust emissions and in any case within the limits established by the Zambia Environmental Management Agency of the Republic of Zambia and the Environmental Management Agency of the Republic of Zimbabwe or other government authorities. If in the opinion of the Supervisor the exhaust gas emissions of any of the Contractor's equipment or vehicles are excessive, whether due to poor engine adjustment, low fuel quality, inefficient operating conditions or other rectifiable cause, the Supervisor may instruct that such equipment or vehicles cease operation until adequate corrective actions have been carried out, and the Contractor shall comply with such instruction immediately.

Burning of materials resulting from site clearance and grubbing, and burning of combustible construction waste, will only be permitted when atmospheric conditions are considered by the Supervisor to be suitable.

The Contractor shall take appropriate measures to minimise the generation of dust as a result of his activities, and to prevent dust originating from his operations from causing nuisance or health hazard to persons or animals and from damaging crops, orchards and dwellings. For work in confined spaces and for specific activities giving rise to potentially hazardous airborne particulates or fumes, these measures shall include a risk assessment and an appropriate response to the assessment to prevent hazards to health, including but not limited to the use of dust extractors, wet drilling, and personal protective equipment. For generalised dust including but not limited to dust from construction traffic, excavations, stockpiles, backfill areas and materials handling, these measures shall include but not be limited to sheeting loads, watering stockpiles and access roads, and the establishment of temporary vegetative cover on soils and soil like materials.

The Contractor shall not locate any hot-mix, screening, crushing or similar potentially polluting plant closer than 500 m to any settlement. Any such plant must be fitted with dust suppression equipment and operated and maintained at all times in conformity with the manufacturer's specifications, instructions and manuals.

The Contractor shall monitor dust levels and control the generation of dust to below the limits specified by the EPP from time to time and record these readings and supply these readings to the Supervisor on a monthly basis. Allowable maximum dust concentrations depend on the maximum quartz content in the dust. The Contractor must maintain dust concentrations (calculated as average concentration over an 8 hour period) below the levels specified in table below:

Dust Concentrations Levels

Maximum Quartz Content in Dust (by weight)	Maximum Concentration of Dust in Air (mg/m³)
Q < 1%	8
1% < Q < 4%	4
Q > 4%	0.15

In the above table, Q = maximum quartz content (i.e. the concentration of total breathable particles of dust, size from 5.0 to 0.2 micron).

The Contractor shall take appropriate measures to avoid the release to the atmosphere of chlorofluorocarbons (CFCs). All new air-conditioning, refrigeration, freezing and cooling units supplied by the Contractor for use on or off the Site including those in vehicles shall be CFC-free. The Contractor shall include in his workforce a technician trained in and equipped for the maintenance, refilling and recycling of CFC-based and other refrigerants.

The cost of all measures required to comply with the requirements of this Clause shall be deemed to be included in the Contractor's rates.

### 3.7 Prevention of Noise Pollution and Hazards

The Contractor shall take appropriate measures to minimise nuisance to local residents from noise, and in any case shall control or protect against loud sounds so that no workers are subjected to excessive noise. For this purpose excessive noise shall be a daily personal exposure to noise of 85 dB (A). Where in the opinion of the Medical or Safety Officer or the Supervisor the daily noise exposure of a worker is likely to exceed this level, the Contractor shall carry out a noise assessment, provide personal protective equipment, control noise at source, designate ear protection zones, and any other necessary measures, all in accordance with best international practice for avoiding damage to workers' hearing.

All plant and machinery shall be effectively silenced, and in no case shall the Contractor operate machinery or vehicles with defective or missing silencers, mufflers or exhaust pipes.

### 3.8 Prevention of Water and Soil Pollution

The Contractor shall ensure that his activities do not result in the contamination of any surface water, groundwater or agricultural soil by polluting substances. The Contractor shall design and implement the necessary physical and operational measures including but not limited to bunds of minimum 110% capacity around fuel, oil and solvent storage tanks and stores, collection and recycling or safe disposal of used engine, hydraulic and shuttering oils, oil and grease traps in drainage systems from workshops, vehicle and plant washing facilities and service and fuelling areas and kitchens, sanitary solid and liquid waste disposal systems, the maintenance in effective working order of these systems, and emergency response procedures and equipment for pollution events, all in accordance with normal good international practice and to the satisfaction of the Supervisor.

The Contractor shall take particular care that under no circumstances any deleterious solid or liquid materials arising from the works become deposited in the Zambezi River. Should any such incident occur, the Contractor shall immediately inform the Supervisor and take all necessary steps to minimise pollution and harm resulting from the incident.

To prevent damage to agricultural soils, the Contractor shall strip and stockpile topsoil from all areas of the Site where damage from traffic, construction activities, building work etc. could occur, for subsequent use in Site reinstatement. The depth of topsoil to be stripped shall be as instructed by the Supervisor. Stripping, soil handling and soil storage methods shall be as specified Excavation & Demolition Works.

Should any pollution arise from the Contractor's activities including the improper deposition of sediment he shall clean up the affected area immediately at his own costs and to the satisfaction of the Supervisor, and shall pay full compensation to any affected parties. The Contractor shall include these emergency measures into his environmental management plan.

### 3.9 Protection of Wildlife and Fish

The Contractor shall take all practicable steps to prevent his activities from affecting wildlife and fish in the vicinity of the Site. The Contractor shall ensure that his staff and labour do not engage in any unlicensed hunting, shooting, trapping or collecting of any wild animal or bird or in any unlicensed fishing on or near the Site, and shall inform his employees of any rare or endangered species of wildlife which they may come across and that such species are to be protected. Contravention of these requirements by any member of the workforce shall be grounds for dismissal.

### 3.10 Erosion Control and Storm Water Management

The Contractor shall take appropriate measures to manage storm water originating in and flowing across and from the Site so as to avoid causing damage to the works or to other property whether by runoff or flooding or erosion or sedimentation, such property to include fields, water channels, dwellings and other tangible assets. The Contractor shall repair any such damage at his own cost to the satisfaction of the Supervisor and pay full compensation to any affected party.

### 4 Monitoring

It is the responsibility of the Contractor to monitor certain criteria as outlined in Chapter 7 of the ESMP (page 96 - 103)

The monitoring shall include and is not exclusive of the following parameters as outlined in the Tables below. The monitoring method and frequency are also outlined in Chapter 7 of the ESMP

Management Plan	Monitoring Method	Monitoring Location	Monitoring Prequency	Responsibility	Relevant Standard	Reporting Requirements	Additional Information
tion ti		At the nearest sensitive receptor.	If significant complaints are received.	Contractor	IFC General EFIS Guidelines 1.7 - Noise.	<ul> <li>Complaints register.</li> <li>Equipment/machinery maintenance reports.</li> </ul>	
Air Quality and Dust Managrement Flan	<ul> <li>Inspection of vehicle maintenance record.</li> <li>Visual inspection.</li> </ul>	<ul> <li>Areas of high construction traffic whene roads are not surfaced.</li> <li>Active work areas.</li> </ul>	On ad hoc basis during dry conditions of no rain.	Contractor	IFC General EFE Guidelines L1 - Art Emissions and Ambient Air Quality. Section 37, 46 and 96 - The Air Pollution Control Air Pollution Control (Licensing and Emission Standards) Regulations, S.I. 141 or 1966	<ul> <li>Record of high dust incidents and corrective actions taken.</li> <li>Complaints register.</li> <li>Equipment/machinery maintenance reports.</li> </ul>	
Soil Erosion and Sediment Control Management Plan	Visual inspections of all erosion and sediment control structures.	At specific areas susceptible to erosion and sediment centrol structures.	Weekly and after major rain events.	Contractor	None	Records of ineffective control measures and cornective actions taken.	
Waste Management Plan Dangerous Goods Subfarances Subfarances Management Plan	<ul> <li>Visual inspection of weats strange facilities.</li> <li>Enview of waste manifestos.</li> <li>Review of contractor forenes.</li> <li>Review of waste investory.</li> <li>Review of agent and an angle and angle and angle and angle and angle and angle and angerous goods.</li> </ul>	Washe disposal sites. Dangerous goods store.	On all face weekly basis. Monthly	Contractor	IFC General EFIS Guidelines 1.6 - Waste Management, Zimbabwean Effineert and Solid Waste Disposal Regulations SI 6, 2007. Zimbabwean Hazardous Regulations SI 10, 2007. Zimbabwean Environmental Management (Tazzridous Waste Management) Regulations 10 of 2007. IFC General EFE Guidelines IFS- Guidelines IFS- Guidelines African Development Bank Operational Safeguard (OS) 4 - Pollution Frowenhon and Control, Fiazardous Materials and Resource Efficiency. Zimbabwean Regulation 12 of 2007 Environmental Submaces. Poekticles and	Records of ineffective control measures and corrective actions taken. Records of ineffective control measures and corrective actions taken.	т. – – – – – – – – – – – – – – – – – – –

Kariba Dam Rehabilitation Monitoring Plan

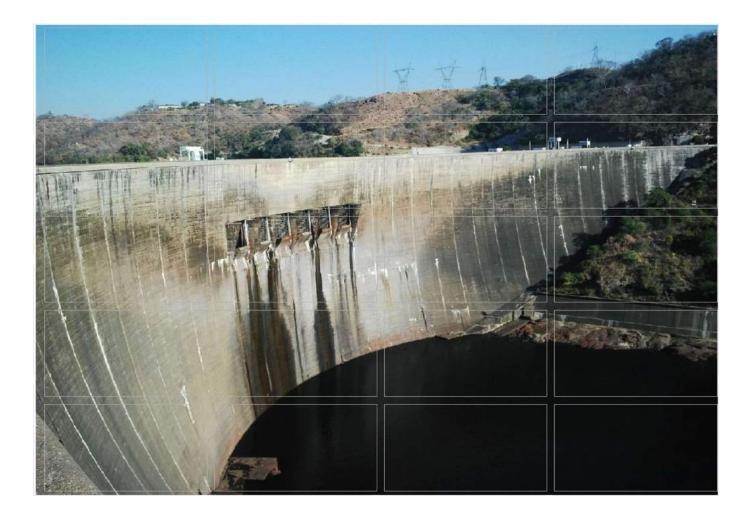
Management Plan	Monitoring Method	Monitoring Location	Monitoring Prequency	Responsibility	Responsibility Relevant Standard	Reporting Requirements	Additional Information
Surface Water Quality Management Flan	<ul> <li>Water quality monthreng downstream of the cofferdam.</li> <li>Monthoring of watercourses near activities involving rehabilitation works.</li> <li>Audit of control measures to minimise impacts on surface water.</li> </ul>	<ul> <li>Downstream of the cofferdam.</li> <li>Waher courses near to active working arres.</li> </ul>	<ul> <li>Weekly/monthly water quality monitoring downstream of the cofferdam.</li> <li>Regular monitoring of activities involving rehabilitation works in enait waterrourses.</li> <li>Annual audit of controls to minimise impacts on surface work at all facilities and infrastructure.</li> </ul>	Contractor	IFC General EFE Guidelines 1.3 -Waste Water and Ambiert Water Quality. Zambian Water Resources Management Act, No 21 of 2011. Zambian Water Supply and Sarthation Act, No 26 of 1997. Zimbabwean Water Act, 2003 (Chapter 2024).	<ul> <li>Records of all monitoring and auditing activities.</li> <li>Records of recommendations and corrective actions arising from audits.</li> </ul>	Refer to detailed monitoring plan included in Anner C.
Aquatic Ecology Management Plan	<ul> <li>Water quality and turbidity monitoring downstream of the coefferdam.</li> <li>Bisemonitoring, fish casualties.</li> </ul>	<ul> <li>Downstream of the cofferdiam.</li> <li>Plange pool.</li> </ul>	<ul> <li>Workly/monthy water quality montering downstream of the cofferdam.</li> <li>Ad he: impection of fish kills.</li> </ul>	Contractor	DWAF. (1996) South African Water Quality Guiddines (second adthor), Volume 7: Aquatic Ecosystems, Pretoria, South Africa. Zambian Fisheries Act. No 22 of 2011. Zambian National Folicy on Wetlands Conservation, September 2001. September 2001. Zimbabwean CIN 380 of 2013 (Frotection of Wetlands) per Environmental Management Act.	Records of all monitoring and auditing activities. Records of recommendations and corrective actions arising from audits. Quarterity biomonthoring reports during the duration of rehabilitation works. Biantual biomonthoring the completion of rehabilitation works. Fish mortality records.	Refer to detailed monitoring plan included in Anner C.
Reveyetation and Rehabilitation Management Plan	<ul> <li>Regular inspections will be undertaken during the newegistation period for subsidence, presence of weeds, revegistation success and stability.</li> <li>Regular inspection of any seeded areas until regrowth is established or once the site becomes stable.</li> <li>Regular inspection of weed control measures.</li> </ul>		On air face monthly basis.	Contractor	Zambian Forests Act. Cap 199. Zimbabwean Forest Act. 1948 (Chapter 1846), Environmental Management Act. [Chapter 20:27]. Statutory instrument 6 of 2007.	Reporting on success of newspetation and weed control programme.	1
Social Values Management Plan	<ul> <li>Attendance of community meetings.</li> <li>Maintenance of complaints registers.</li> </ul>	Across the site and surrounding communities.	Regular community meetings and ongoing monitoring of complaints.	Contractor	None.	<ul> <li>Minutes of meetings.</li> <li>Record of complaints and corrective actions.</li> </ul>	

Management Plan	Monitoring Method	Monitoring Location	Monitoring Prequency	Responsibility	Relevant Standard	Reporting Requirements	Additional Information
Procurement of Goods and Services Management Plan	<ul> <li>Monthoring of achievement against contractual procurement targets.</li> <li>Monthoring of the value of procurement in the Troject Area and in Zimabuse and Zambia against Project's total procurement value.</li> <li>Monthoring of procurement procurement value.</li> <li>Monthoring of procurement training courses in terms of type of training, and value of training, training and value of training.</li> </ul>		<ul> <li>Monitoring to be conducted on a monthly busis.</li> <li>Conduct an annual audit of procurement figures based on which an incontibut for achieving procurement targets can be considered.</li> </ul>	Contractor	None.	<ul> <li>Monthly reporting to the ZRA on - The aclustrement angress and suggested corrective actions.</li> <li>Training courses presented and attendor.</li> <li>Value of procursment in Project Area as well as in Zimbabwe and Zambia. Regular progress reporting to Covernment and other interested and affected parties segarding procurment matters.</li> <li>Preparation of monthly and cumulative procursment figure reports for submission to the ZRA.</li> </ul>	•
Road Safety Management Plan	The number of incidents or complaints received in relation to road safety.	Across the site and surrounding communities.	<ul> <li>Orogoing monitoring of complaints.</li> <li>Regular audits and reviews will be undertaken regarding road safety.</li> </ul>	Contractor	IFC General E1E: Guidelines 3.4 - Traffic Safety.	<ul> <li>Record of complaints and corrective actions.</li> <li>Regular audits and neviews will be undertaken and recommendations and corrective actions will be implemented.</li> </ul>	
Social Infrastructure Management Plan	Monitoring of complaints associated with cumulative impacts on social and health infrastructure.	Across the site and surrounding communities.	<ul> <li>Congoing monitoring of complaints.</li> <li>Direct and cumulative impacts on social and bealth infrastructure will be closely monitored on an orgoing basis, with corrective action such as reallocations of community investment as required.</li> </ul>	Contractor	Netwe	<ul> <li>Record of complaints and corrective actions.</li> <li>Community relations report including relevant metrics quarterly during the duration of rehabilitation works, with corrective action such as re-allocations of community investment as required.</li> </ul>	×
Community Health and Safety Management Plan	Monitoring of the number of incidents or complaints received from community.	Across the site and surrounding communities.	<ul> <li>Ongoing monitoring of complains received.</li> <li>Regular audits and reviews will be undertaken and recommendations and corrective actions will be implemented.</li> </ul>	Contractor	TFC General EFES Guidelines 3 - Community Health and Safety.	<ul> <li>Record of complaints, monthoring and auths and corrective actions taken.</li> <li>All incidents including near-misses reported through the incident reporting system.</li> </ul>	×
Traffic and Transport Management Plan	<ul> <li>Monitoring of number of commanity complaints received relating to Project traffic and transport systems.</li> <li>Monitoring of road connection.</li> <li>Monitoring of contracted transport companies.</li> </ul>	Across the site and surrounding communities	<ul> <li>Orgoing monitoring of complaints received and number of incidents in relation to traffic.</li> <li>Orgoing monitoring of transport network shortcomings.</li> <li>Ad the quarterly monitoring of transport companies.</li> </ul>	Contractor	IFC General EFE Guidelines 3.4 - Traffic Safety.	<ul> <li>Records of all monitoring and auditing artivities will be kept, with results reported to the ZZA at agreed intervals.</li> <li>Recommendations and corrected crons arising from audits will be recorded.</li> </ul>	*

remisses to be remisses to be ent reporting	- contractor to - contractual (contractual respension - th Zambian envented to bank as per date. porting to the from the inventent of receive	tractor to the None. ation. the Contractor on of audit
<ul> <li>Records of all monitoring and auditing activities will be larget together with corrective actions.</li> <li>All incidents including near-misses to be reported through the incident reporting system.</li> </ul>	<ul> <li>Monthly reporting by the Contractor to the ZRA on a chievement of contractual employment largets and suggested corrective actions it needed.</li> <li>The ZARA will comply with Zambian and Zimbabwean registerios pertaining to reporting requirements related to recruitment.</li> <li>The ZRA will report to the World Band and Artica Development Bank as per their agreed reporting schedule.</li> <li>Twicks Area regurding achievement of Project Area regurding achievement of employment targets and corrective actions if so required.</li> </ul>	<ul> <li>Monthly reporting by Contractor to the ZRA of monitoring information.</li> <li>Biarnual audit reports by the Contractor to the ZRA with presentation of audit outcome.</li> </ul>
BC General EEE Guidelines 2- Occupational Health and Safety. African Development bank Operational Safeguard (OS) 5 Labour Conditions, Health and Safety. Factories Act (Chapter 441 of the Labour Act (Chapter 441 of the Lawo of Zamhia) (as amended by Satmitory (as amended by Satmitory (as antended by Satmitory (as antended by Labour Act (Chapter 2801) anemded 2006 and the Labour Act (Chapter 2801) amended 2006 and the Labour Act (Chapter 2801) amended 2006 and the Labour	Nore,	None.
Contractor	Contractor	Contractor
<ul> <li>Regular engagement sessions with employees a sessions with employees a stery issues. This can be done as part of the done as part of the practise.</li> <li>Monthly monthrring of achievement against achievement against exhert proving of maximum number of hours worked without reporting of an undar or ursade employment condition.</li> <li>Arnual andit of performance statistics based on which an incentive for achieving performance statistics based on which an incentive for achieving performance statistics based on which an incentive for achieving performance statistics based conthions can be considered by the ZRA.</li> </ul>	<ul> <li>Monthly monitoring of achievement against contractual employment targes.</li> <li>Conduct an annual audit of employment statistics.</li> </ul>	<ul> <li>Monthly monitoring of possible possible reported gravances or possible comments as captured in the Grevance Mechanism.</li> <li>Barmual auditing of Mechanism.</li> <li>Barmual auditing of grevance and positive comments records.</li> <li>Rayular presentations and interaction by the ZRA with purity expresentation works process and share representatives to report on the robabilitation works process and share monitoring and andit fouries with home</li> </ul>
The Kartha Dam Rehabilitation Project.	The Kartha Dam Rochabilitation Project.	Individual tourists visiting the Kurba Dum and Iocal tourism operators.
Monitoring of worker health and safety against national requirements and international standards.	Monitoring employment and training achievements against contractual employment and training targots.	Monitoring of tratrists and lourism operators perceptions on the Project.
Worker Heath and Safety Management Flan	Employment and Training Management Plan	Tourism Management Plan

Management Plan	Monitoring Method	Monitoring Location	Monitoring Prequency	Responsibility	Relevant Standard	Reporting Requirements	COMPANY PROPERTY
Cultural Heritage Management Flan	There are no immediate monitoring requirements seasciated with cultural heritage management.	Active work areas and immediate surrounds.	Record of all articlacts or cultural hartings aspects distrified during the duration of rehabilitation works.	Contractor	WB (OP) 4.11 IPC Performance Standard (PS) 8 - Cultural Heritage. Zambian National Heritage and Conservation Act. 1989, Zimbabwean National Monsums and Monsumens Act (Chapter 25:11).	New indigenous heritage sites identified during rehabilitation works will be reported to the relevant heritage authorities. Notify the Polsce if human remains are discovered to determine whether the remains are ancient and/or indigenous.	
Grievance Management and Incident Reporting Flan	The monitoring of grevances will be undertaken by maintaining a complaints register and ersuring that all complaints are resolved.	Across the site and surrounding communities.	<ul> <li>The complaint form will be checked by the ECO within two weeks of complaint receipt to ensure follow-up action has been taken to resolve the issue.</li> <li>All all for complaints and incidents are to be reported to the ECO.</li> </ul>	Contractor	IFC Performance Standard Management of Management of Environmental and Social Fisis and Impacts. Artican Development Bank Operational Safeguard (OS) 1 – Environmental and Social Assessment.	Record of complaints and corrective actions taken.	
Environmental Induction and Training Management Flan	Monitoring effectiveness of environmental induction and training.	Kariba Datn Rehabilitation Project.	<ul> <li>Non-compliance with training will be recorded.</li> <li>The success of the training programs will be successed and documented on a bastrual basts.</li> </ul>	Contractor	Nore.	<ul> <li>All training neords will be maintained.</li> <li>The success of the training programs will be documented.</li> </ul>	
Blasting Management Plan	<ul> <li>Monitoring of adherence to blasting schedule.</li> <li>Monitoring of the number of complaints received relating to blasting.</li> </ul>	<ul> <li>Karha Dam Rekabilitation Project</li> <li>Across the site and surrounding communities</li> </ul>	<ul> <li>All complaints from residents or landholdens will be audited on a bimorthby basis.</li> <li>Adherence to the Bastring schedule will be monthored on a bimorthby basis.</li> </ul>	Contractor	Explosives Act (No 10 of 1974) Regulations are in draft stage. Explosives Act (Chapter 10:08)	<ul> <li>Record of complaints and corrective actions taken.</li> <li>Monthly reporting by Contractor to the ZRA of monitoring information.</li> </ul>	
Emergency Preparedness Plan	Monitoring the effectiveness of the Emergency Preparedness Plan.	Kariba Dam Rehabilitation Froject.	The effectiveness of the Emergency Preparedness Plan will be teshed at least annually and audited.	Contractor	IFC General EHS Guidelines 3.7 – Emergency Preparedness and Response.	<ul> <li>The Contractor will be responsible for compiling the results of testing and auditing programs. These results will be reported to the ZRA.</li> </ul>	*
Dum Safety Management Plan	Monitoring dam safety during the rehabilitation of the Kariba Dam.	The rehabilitation of the Kari and sufficient resources prov and implementation of the re	ha Dam plunge pool and spill w ided to ensure the continued saf chabilitation works. A copy of th	ay will be carried fety of the dam. 7 c existing Emerg	d out in compliance with the OF As per OP/BP 4.37 an independe ency Preparedness Plan is attact	The relabilitation of the Karibu Dam plunge pool and spiil way will be carried out in compliance with the OP/BP 4.37 with the Project aimed at ensuring measures are implemented and sufficient resources provided to ensure the continued staffy of the dam. As the CO/PE 4.37 and independent Pauel of Espects will be appointed to review the investigations, design- and immediation of the relabilitation works. A core of the resisting Emerence Prostanders Plan is also the staff of the ESIA.	sures are implemented the investigations, design,

## **19** Appendix F – Resettlement Policy Framework









Resettlement Policy Framework for the Kariba Dam Rehabilitation Project (Zambia and Zimbabwe) on the Zambezi River

Zambezi River Authority

March 2015

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### Resettlement Policy Framework for the Kariba Dam Rehabilitation Project (Zambia and Zimbabwe) on the Zambezi River

March 2015

Reference: 0264743

Prepared by: Environmental Resources Management Southern Africa (Pty) Ltd. (ERM)

For and on behalf of **Environmental Resources Management** 

Approved by: Stuart Heather-Clark

Signed:

Position: Partner (Project Director)

Date: March 2015

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- ·	Any person/ household who, as a result of the Project activities,
household l	
	loses the right to own, use or otherwise benefit from an asset or a
1	resource, either in full or in part and either permanently or
	temporarily.
Compensation 1	Payment in cash or in kind for an asset or a resource that is acquired
	or affected by the Project.
Cut-off date	The date before which individuals must be occupying or otherwise
1	using / owning an asset / resource in order to be eligible for
(	compensation and / or resettlement assistance.
	Loss of income sources or means of livelihood resulting from Project
i	induced land acquisition or obstructed access to natural resources.
Eligibility 1	Entitlement to compensation due to pending subjection to physical
ć	and / or economic displacement.
Host communities	People living in or around areas to which people physically
	displaced by the project will be resettled who, in turn, may be
	affected by the resettlement.
Involuntary resettlement	The occurrence of resettlement in instances where affected people
	do not have the right to refuse land acquisition. This occurs in cases
	of: (i) lawful expropriation or restrictions on land use based on state
	needs; and (ii) negotiated settlements in which the buyer can resort
t	to expropriation or impose legal restrictions on land use if
1	negotiations with affected people fail.
Livelihood restoration	Restoration of wage-based or enterprise-based livelihoods.
Physical displacement	Loss of shelter and associated assets resulting from Project induced
-	land acquisition, which necessitates affected people to move to
ć	another location.
Replacement cost	The market value of affected people's land/ assets plus transaction
	costs.
Resettlement	The overarching process that describes physical and economic
	displacement, but also the subsequent rehabilitation activity,
	through which the welfare of affected people is improved, or at least
	restored, to pre-Project levels.
	A document specifying the procedures that a resettlement should
	follow and the actions that will be taken to compensate affected
, ,	people and communities.
	Households included in the household survey for this study. These
	households are located in close proximity to the Project footprint
	and, in most cases, are the same as the Project affected households.

Concept	Definition
A	
Vulnerable groups	In the Social Study Area, the broad categories of people who should be considered to have some level of vulnerability are:
	<b>Women</b> are generally regarded as vulnerable in the African social context as they are often expected to fulfil traditional roles of women i.e., taking care of the household and raise children rather than seek formal employment. In many cases women also lack education, mostly having attained only primary school level education. As such local women are unlikely to seek employment with project because of family duties.
	The elderly are generally recognised as being vulnerable. The elderly remain in high social standing as long as they are productive; however, they lose this standing once they become dependent on the younger generations for assistance in meeting their basic needs (e.g., housing, water, food). The elderly are usually not in a position to take advantage of the benefits typically associated with large projects such as the Kariba rehab project.
	<u>Youths</u> For the purposes of this assessment, youth are quantitatively defined as persons aged approximately 15 to 24 or, recognising variations by cultural context, qualitatively defined by their degree of independence with respect to their obtainment of a livelihood, relationship status (i.e., marriage, children), and living arrangements.
	Youth can be recognised as vulnerable, though in a way distinct from other categories listed above. Being at their physical prime but often facing an unknown future, youth may be seen as both empowered and disempowered. Youth are vulnerable in the sense that they are between dependence (childhood) and independence (adulthood) and, without access to resources and support to enable their transition to adulthood, youth may face a large degree of instability in their lives. Youth only inherit land once they have reached full adulthood and marriage, and until then are dependent on their parents.
	Another characteristic of youth is that it is a time when individuals are developing their identities and questioning societal norms; when youth perceive that their economic and social prospects are poor, they may engage in antisocial behaviour.
	<b>Disabled or Chronically III Persons</b> : Disabled persons should be recognised as vulnerable as they are unlikely to be able to access the project benefits but would be vulnerable to change brought about by the project. People living with HIV/AIDS and TB can be considered to be disabled as their ability to remain healthy and maintain their livelihoods is often compromised by their illness.

This Resettlement Policy Framework (RPF) has been prepared by Environmental Resources Management (ERM) for the Zambezi River Authority (ZRA) as part of the Environmental and Social Impact Assessment for the proposed rehabilitation of the plunge pool and the spillway of the Kariba Dam.

This RPF outlines the principles, procedures, and organizational requirements that should be considered by the ZRA should the implementation of the Project result in any physical or economic displacement.

The RPF has been developed bearing in mind Zimbabwean and Zambian requirements as well as IFC Performance Standard 5 - *Land Acquisition and Involuntary Resettlement (IFC PS5)* and African Development Bank (AfDB) Operational Safeguard (OS) 2 – *Involuntary Resettlement: Land Acquisition, Population Displacement and Compensation.* 

#### 1.1 OBJECTIVES AND SCOPE OF THE RPF

IFC PS5 and OS2 require a Resettlement Action Plan (RAP) for any project that results in physical or economic displacement of people. Where the exact nature or magnitude of the land acquisition or restrictions on land use related to the project is unknown due to the stage of project development, it is normally recommended that the proponent develop a Resettlement Policy Framework (RPF) as a precursor to a full RAP at a later stage.

Therefore the objective of the RPF is to provide a framework within which possible future displacement will be conducted..

#### 1.2 Project OVERVIEW

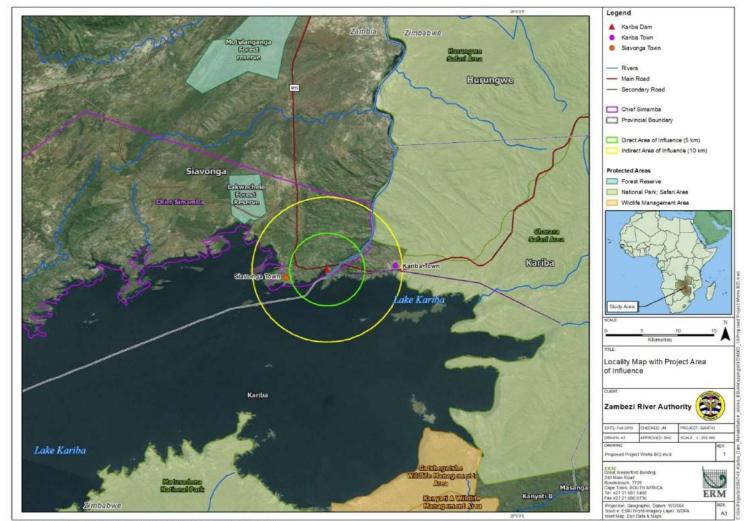
The Kariba Dam is a double curvature concrete arch dam located at 16°31'18"S 28°45'41"E in the Kariba Gorge of the Zambezi River Basin between Zambia and Zimbabwe (*Figure 1.1*). The arch dam was constructed between 1956 and 1959 together with two separate hydropower plants one on the Zambian side and one on the Zimbabwean side of the Zambezi River.

Water is released from the reservoir through six sluice gates located approximately 80 m above the river level downstream of the dam. In the first 20 years after the dam was constructed there were sustained heavy spillage episodes resulting in erosion of the bedrock to 80 m below the normal water level. This area is known as the 'Plunge Pool'. The plunge pool represents a risk to the stability of the dam wall and therefore risk of a flood event and reduced operating capacity of the dam. Failure to implement remedial measures to the plunge pool will result in the failure to operate the reservoir as expected (i.e. at a reduced capacity) and an increase in the risk of dam wall failure. A scenario where the dam wall fails will release a flood event of a total 273 km<sup>3</sup> resulting in a major loss of life as the flood plain is home to approximately three million people; loss of livelihoods (socio-economic activities); environmental degradation; and a loss of main source of power to the region. Therefore it is necessary to implement the remedial action to avoid such an event.

Apart from the need to reshape the plunge pool, there is also a need to rehabilitate the six sluice gates that make up the spillway. The work needed within the sluices is associated with the refurbishment of the concrete surface of all sluices which have been distorted over the years due to an advanced alkali-silica reaction. Without functional sluices the reservoir level cannot effectively be maintained to take into account the flood regime of the Zambezi River. Without the ability to release water from the reservoir, there is a danger of the reservoir being too full prior to a flood event, and the subsequent flood event causing over topping of the dam wall which could lead to dam failure.

The aim of the Kariba Dam Rehabilitation Works is to improve the stability of the plunge pool through reshaping its profile. This will limit the preferential erosion towards the foundations of the dam along zones of weak rock. The project also aims to rehabilitate the six sluice gates of the spillway, enabling the ongoing use of the spillway function to manage the reservoir levels.

The two key components of the rehabilitation works, namely the reshaping of the plunge pool reshaping and the spillway rehabilitation, are discussed in more detail in the next sections.



#### Figure 1.1 Locality of the Kariba Dam Rehabilitation Works

union COM Stationer Advant Phys Lin (2)

ENVIRONMENTAL RESOURCES MANAGEMENT

## <u>Key Works</u>

The reshaping of the plunge pool is made up of a number of activities. These include the following:

- Establishment of general construction site, including construction camp for workers, workshops, lay down area, batching plants etc.;
- Transport of construction materials to the site;
- Management of spill before and during the rehabilitation works;
- Construction of an access road into the plunge pool area;
- Construction of the access road to construct the cofferdam;
- Construction of the cofferdam;
- Pumping of water from the cofferdam downstream;
- Blasting and excavation of the plunge pool;
- Removal of rock from the plunge pool via blasting and loading to trucks;
- Transport of waste rock from plunge pool to waste rock dumpsite;
- Disposal of waste rock; and
- Site clean-up and rehabilitation.

## Timing of Plunge Pool Reshaping

The schedule will depend on the spillage duration governed by the specific hydrological conditions during the works. The preferred option is to allow a three phase works schedule, known as Alternative Scenario 3 (Tractebel Engineering (France) and Coyne et Bellier, 2012). Based on this alternative scenario the on-site works to reshape the plunge pool are estimated to take about three and a half years to complete. This will be finalised during the Scoping Phase.

## 1.2.2 Rehabilitation of the Spill Way

Apart from the need to reshape the plunge pool, there is also a need to rehabilitate the six sluice gates that make up the spillway. The work needed on the sluices is associated with the refurbishment of the concrete surface of all sluices. The surfaces have been distorted over time due to an advanced alkali-silica reaction. Without functional sluices the reservoir level cannot effectively be maintained to take into account the flood regime of the Zambezi River. Without the ability to release water from the reservoir there is a danger of the reservoir being too full prior to a flood event. Therefore if a flood event occurs causing over topping of the dam wall, the potential for dam failure exists.

## <u>Key Works</u>

Refurbishment of the sluice gates will include the following activities:

- Establishment of a general construction site, including construction camp for workers, workshops, lay down area, batching plants etc.;
- Upgrade of access road to slipway;
- Transport of construction materials to the site;
- Dredging of material to deepen the slipway channel below the water level and disposal of the dredge material;
- Upgrade of the slipway to allow for the assembly of the cofferdam required for the refurbishment;
- Assembly of the cofferdam and floating to and installation on the dam wall;
- Dewatering of sluice gate and concrete works within the sluice gate chambers;
- Waste management; and
- Site clean-up and rehabilitation.

#### Timing of the Spillway Rehabilitation

The schedule will depend on the spillage duration governed by the specific hydrological conditions during the works. The on-site works to refurbish the spillway will be performed after the plunge pool reshaping.

The works will start with the site installations, the upgrading of the slipway and the associated access roads. The refurbishment of one sluice takes one year from the installation of the temporary cofferdam to its removal. The cofferdam is successively transferred from one sluice to the adjacent one. It expected that total works will take eight years to complete.

#### 1.3 STRUCTURE OF THE RPF

The remainder of the RPF is structured as follows:

- Section 3: Regulations and Requirements;
- Section 4: Resettlement Action Plan (RAP) Requirements;
- Section 5: Stakeholder Consultation;
- Section 6: Institutional Arrangements;
- Section 7: Grievance Mechanism;
- Section 8: RAP Schedule;
- Section 9: RAP Funding and Budget;
- Section 10: Monitoring and Reporting; and
- Section 11: Conclusion.

#### 2 **REGULATIONS AND REQUIREMENTS**

This RPF has been prepared bearing in mind the applicable Zimbabwean and Zambian legislation as well as international standards. In the event of discrepancies between in-country legislation and international good practice, the latter will prevail.

#### 2.1 NATIONAL REQUIREMENTS

*Table 2.1* below provides a summary of the land acquisition related legislation for both Zimbabwe and Zambia.

 Table 2.1
 Summary of Land Acquisition related Legislation: Zambia and Zimbabwe

Category	Zimbabwe	Zambia
Land Management	Land management in Zimbabwe I Land management in Zimbabwe is the responsibility of the Ministry of Lands and Rural Resettlement. The land rights in Zimbabwe are embedded in four systems of land tenure, namely freehold (private) land, state land, communal land and leasehold (resettlement) land systems. <b>Communal Land Act (Chapter 20:04)</b> Act concerns Communal land. Part III of the Act deals with occupation and use of communal land; while Section 7 states that no person shall occupy communal land unless he/ she acquired the rights to do so before 1st of February 1983, or has obtained a permit to do so, or is related to a person who occupies or uses communal land.	Lands Act, Cap 173, 1995 The Act guarantees peoples' right to land while enhancing development. The Act recognises the holding of land under customary tenure and the Chief's role is legally recognised, such that land cannot be converted or alienated without approval of the Chief.
Land Acquisition	Land Acquisition Act (Chapter 20:10) The Act empowers the President or other authorities to acquire land and other immovable property compulsorily where it is reasonably necessary in the interest of defence, public safety, public order, public morality, public health, town and country planning or for a utilization that is beneficial to the public generally. The acquisition does not include any minerals which are the subject of rights or any other rights. An acquiring authority is under the duty to pay 'fair compensation'.	Land Acquisition Act No. 2 of 1970 The Act sets out regulations for compulsory acquisition of land and property and compensation for such acquisition.

Category	Zimbabwe	Zambia			
00	Regional Town and Country Planning	Town and Country Planning Act, Cap			
ii.	Act (Chapter 29:12)	283, 1962, as amended			
ant	Part VII of this Act details the acquisition,	Provides for the appointment of			
Ы	expropriation and disposal of land owned	planning authorities whose main			
pu	by the local authorities under Sections 45	responsibilities are the preparation,			
sea	to 49. In turn, Part VIII details the liability,	approval and revocation of			
Land Use and Planning	Determination, exclusion/ or inclusion,	development plans. It also provides for			
and	and claims for compensation in Sections 50	the control of development and			
Ľ	to 53.	subdivision of land.			
	Deeds Registry Act (20:05)	Lands Conversion of Titles Act Lands			
ds	This Act principally makes provision for	and Deeds Registry Act, Cap 174			
Jee	the making and registration of deeds	Provides for alienation, transfer,			
Title Deeds	regarding land and other real rights, for	dispossession and charge of land.			
Titl	rights in land such as lease and servitude				
	and for the transfer of land.				

The above legislation facilitates the following resettlement activities:

- The payment of compensation where land and land rights are acquired for project purposes;
- The compensation for loss of, or damage to, productive assets and crops, be it temporary or permanent; and
- The right to appeal and other judicial avenues for the resolution of disputes.

### 2.2 INTERNATIONAL REQUIREMENTS

It is proposed that the ZRA will follow the requirements of IFC Performance Standard 5 - *Land Acquisition and Involuntary Resettlement (IFC PS5)* and African Development Bank Operational Safeguard (OS) 2 - *Involuntary Resettlement: Land Acquisition, Population Displacement and Compensation* in the event that displacement and resettlement is triggered by the Project. The main objectives of both include:

## 2.2.1 IFC PS5 - Land Acquisition and Involuntary Resettlement

- To avoid, and when avoidance is not possible, minimize displacement by exploring alternative project designs;
- To avoid forced eviction;
- To anticipate and avoid, or where avoidance is not possible, minimize adverse social and economic impacts from land acquisition or restrictions on land use by (i) providing compensation for loss of assets at replacement cost and (ii) ensuring that resettlement activities are implemented with appropriate disclosure of information, consultation, and the informed participation of those affected;

- To improve, or restore, the livelihoods and standards of living of displaced persons; and
- To improve living conditions among physically displaced persons through the provision of adequate housing with security of tenure at resettlement sites.

## 2.2.2 *AfDB OS 2 – Involuntary Resettlement: Land Acquisition, Population Displacement and Compensation*

- Avoid involuntary resettlement where feasible, or minimize resettlement impacts where involuntary resettlement is deemed unavoidable after all alternative project designs have been explored;
- Ensure that displaced people are meaningfully consulted and given opportunities to participate in the planning and implementation of resettlement programmes;
- Ensure that displaced people receive significant resettlement assistance under the project, so that their standards of living, income-earning capacity, production levels and overall means of livelihood are improved beyond pre-project levels;
- Provide explicit guidance to borrowers on the conditions that need to be met regarding involuntary resettlement issues in AfDB operations to mitigate the negative impacts of displacement and resettlement, actively facilitate social development and establish a sustainable economy and society; and
- Guard against poorly prepared and implemented resettlement plans by setting up a mechanism for monitoring the performance of involuntary resettlement programmes in Bank operations and remedying problems as they arise.

This *Section* describes a high-level approach towards the preparation and implementation of a Resettlement Action Plan (RAP).

Please Note It is not foreseen that the Project will require the acquisition of additional land above that already within its boundaries. However, the ZRA has requested the preparation of an RPF in case of unplanned events resulting in displacement.

Should any un-planned events result in displacement; the ZRA have indicated that they will firstly attempt to minimize the displacement impact by exploring alternative Project designs. And secondly, where displacement is unavoidable, the ZRA, jointly with the Governments of Zimbabwe and Zambia will plan and execute a RAP process as broadly set out below.

#### 3.1.1 Step 1 - Identify Project Impacts and Affected Populations

The first activity when planning a RAP is to identify all people affected by the project and all beneficial and adverse impacts on their livelihoods associated with the project's land acquisition. Consultation with officials of local government, community leaders, and other representatives of the affected population is essential to gaining a comprehensive understanding of the types and degrees of project effects.

Affected populations and impacts should be identified through a series of steps, namely:

- Develop and analyse maps of the affected area;
- Undertake a social census to identify the affected people and register them according to location;
- Develop an inventory of lost and affected assets at a household and community level;
- Conduct a socio-economic survey of the affected people; and
- Consult with affected people regarding proposed mitigation measures and development opportunities.

## 3.1.2 Step 2 – Develop a Detailed Legal Framework for Land Acquisition and Compensation

The RAP will outline a legal framework describing all laws, decrees, policies and regulations relevant to the resettlement activities associated with the Project. The legal framework described in this RPF lays the foundation for the development of a more detailed legal framework that will include:

- The scope of the compulsory acquisition of land and the nature of compensation associated with it, both the procedures for assessing compensation values and the schedule for making compensation payments.
- Applicable legal and administrative procedures, including appeals processes and the timeframe of such procedures.
- Land titling and registration procedures.
- Laws and regulations related to implementing resettlement, compensation of land, consolidation of land, land use practices, the environment, water use and social welfare.

#### 3.1.3 Step 3 – Develop a Compensation Framework

The RAP compensation framework will specify all forms of asset ownership or user rights among the affected people and the project's strategy for compensating them for partial or complete loss of assets. The compensation framework will include a description of the following:

- Compensation guidelines by host governments.
- In the absence of guidelines, the valuation method of assets of the Project Proponent.
- The proposed types and levels of compensation to be paid.
- Compensation and assistance eligibility criteria.
- Schedule of compensation payments.

## 3.1.4 Step 4 – Describe the Resettlement Assistance and Restoration of Livelihood Activities

The RAP will make provision for providing affected people with the necessary assistance during the physical movement to possible resettlement sites. The date and time of movement, the logistics of transport of people and belongings as well as the arrangements for temporary shelter, if required, should be known in advance. Provision must also be made for possible vulnerable groups (such as handicapped people or the aged who may require special assistance during relocation).

Where resettlement affects the income-earning capacity of the affected people, the Project Proponent is encouraged to undertake resettlement as a sustainable development initiative in order to contribute to the restoration of livelihoods of the affected people.

### 3.1.5 Step 5 – Describe a Detailed Budget and an Implementation Schedule

The RAP will specify all resettlement costs by categories of impact, entitlement, and other resettlement expenditures including training, project management, and monitoring. The budget will illustrate the expenditures over the life of the project.

Ordinarily, payment of compensation and resettlement assistance allowances will be done either by the Government or by the Project Proponent. In the event that either the Zimbabwean or Zambian Governments assume responsibility for the payment of compensation and resettlement assistance allowances, the ZRA should collaborate with the responsible government agency to ensure that payments are made on schedule. If the Project Proponent is financing government resettlement efforts, it is proposed that it should do so in instalments and link disbursement of funds to performancebased milestones. Where the Project Proponent assumes sole responsibility for resettlement funding, it must describe its arrangements to ensure the timely disbursement of funds.

It is further proposed that the RAP budget is to be linked to a detailed implementation schedule for all key resettlement and rehabilitation activities. This schedule should be linked with the project's civil works construction schedule.

## 3.1.6 Step 6 – Describe the Organizational Responsibilities

The RAP will identify and provide details on the roles and responsibilities of all organizations that will be responsible for the planning and implementation of resettlement activities. Depending on the scale of resettlement associated with the Project, it may be appropriate to create a resettlement advisory group (or steering committee, or task force) to co-ordinate the implementation of the RAP.

This advisory group will probably comprise representatives from the ZRA, relevant government representatives, community organizations, NGOs involved in support of resettlement activities as well as representatives of the communities affected by the project, including possible host communities.

The advisory group will convene at regular intervals during the design and implementation phases of the RAP to ensure the regular exchange of

information among all parties and the co-ordination of all resettlement activities.

# 3.1.7 Step 7 – Develop a Framework for Public Consultation, Participation, and Development Planning

Consultation with people affected by the resettlement is mandatory. Early consultation helps to manage public expectations concerning the impact of a project and its expected benefits. Subsequent consultations provide opportunities for the Project Proponent and representatives of people affected by the project, to negotiate compensation packages and eligibility requirements, resettlement assistance, and the timing of resettlement activities. The RAP will define a Consultation Plan comprising a wide range of project stakeholders.

### 3.1.8 Step 8 - Develop a Grievance Mechanism for Resettlement Issues

The establishment of a grievance mechanism is a RAP requirement. The grievance mechanism must keep track and manage grievances and the feedback associated with it to ensure that appropriate actions are taken timeously and resolutions achieved. Corrective actions must be implemented sensitively and complainant(s) must be informed of the outcome. A typical grievance mechanism and procedure is described in *Section 6*.

## 3.1.9 Step 9 - Develop A Framework for Monitoring, Evaluation and Reporting

A framework for monitoring and reporting on the progress and effectiveness of RAP implementation must be developed. This framework will specify types of monitoring, monitoring objectives and monitoring duration as well as proposed monitoring mechanisms. One of the central processes required for a RAP is engagement and consultation with affected communities. In RAP processes a range of key stakeholders are consulted, including the Project Proponent, the affected community and Government. Other stakeholders who may form part of the broader consultation and information sharing process are possible host communities, non-governmental organisations (NGOs), community-based organisations (CBOs), as well as education and training institutions.

The objective of RAP consultations is to secure the participation of all people affected by the project in resettlement planning and implementation, particularly in the following areas:

- Alternative project design;
- Assessment of project impacts;
- Resettlement strategy;
- Compensation rates and eligibility for entitlements;
- Choice of resettlement site and timing of relocation;
- Development opportunities and initiatives;
- Development of procedures for redressing grievances and resolving disputes; and
- Mechanisms for monitoring and evaluation and for implementing corrective actions.

The consultation process will be structured as an inclusive consultation plan to ensure that all affected parties are provided with the opportunity to exchange information with the purpose of understanding and contributing to the implementation process. It is an iterative process which must continue at varying levels of intensity for the duration of the RAP.

As part of the consultation process, all information disclosure and stakeholder consultation will be documented. This documentation should identify who was consulted, when and where they were consulted, what was discussed, what actions were taken and when follow-up is required.

This *Section* will provide an overview of the institutional structure required for RAP implementation. It is proposed that a Resettlement Unit must be established within the overall management structure of the Project to coordinate, manage and monitor the implementation of all displacement activities. To achieve this, the ZRA and the Governments of the two host countries will have to collaborate to ensure that outcomes consistent with IFC Standards are achieved. *Table 5.1* illustrates the roles and responsibilities within such a Resettlement Unit.

Roles	Responsibilities		
Resettlement Manager	Responsible for overall planning, coordination and management		
(RM)	of displacement activities and staff.		
Community Liaison Officer	Responsible for managing high level negotiation and consultation		
(CLO)	with affected communities, facilitates public meetings and		
	monitors Resettlement Officers.		
Resettlement Officers (RO)	Responsible for providing explanation of compensation policy and		
	resettlement activities, monitoring grievances and communicating		
	Project problems to Resettlement Manager and Community		
	Liaison Officer.		
Community Resettlement	Comprises representatives from affected villages and host		
Committee (CRC)	communities including traditional leaders, women, community		
	associations and community members. This committee serves as a		
	channel for grievances between the affected villages and the		
	Resettlement Unit.		

#### Table 5.1Resettlement Unit Roles and Responsibilities

The management of grievances is a vital component of stakeholder management and an important aspect of risk management for a project. Grievances can be an indication of growing stakeholder concerns both real and perceived.

The grievance mechanism will keep track of and manage grievances, and the feedback associated with it to ensure that appropriate actions are taken and resolutions achieved. Feedback must be scheduled appropriately to ensure that issues are addressed timeously. Corrective actions must be planned and implemented in consultation with the aggrieved party where possible and such party should be informed of the outcome of implementing the corrective actions.

As a general policy, the ZRA will work pro-actively towards the prevention of grievances through the implementation of impact mitigation measures defined in the ESIA and addressing any grievances in a timely and effective manner.

#### 6.1 KEY PRINCIPLES

The IFC standards outline requirements for an effective grievance redress mechanism. The IFC states that concerns should be addressed promptly using an understandable and transparent process that is culturally appropriate and readily acceptable to affected communities, at no cost and without retribution. It notes that such mechanism should be appropriate to the scale of impacts and risks presented by a project and should be beneficial for both the Project Proponent and stakeholders.

Further, the UN Guiding Principles on Business and Human Rights (Foundational Principle 31, "Access to Remedy") provides a list of key principles that may also underpin a non-judicial grievance mechanism. The principles outlined in *Box* 6.1provide guidance for designing, revising or assessing a grievance mechanism to help ensure that it is effective in practice.

#### Box 6.1 UN Guiding Principles on Business and Human Rights

In order to ensure its effectiveness, a non-judicial grievance mechanism should be:

- **Legitimate:** the mechanism must be "trust-worthy", if it is not, stakeholders are unlikely to choose to use it.
- Accessible: Barriers to access may include a lack of awareness of the mechanism, language, literacy, costs, physical location and fears of reprisal.
- **Predictable**: Stakeholders' trust for and utilisation of the grievance mechanism is enhanced through the public provision of information about the procedure it offers.
- **Equitable:** Affected stakeholders usually have less access to information and expert resources than business enterprises, and often lack the financial resources to pay for them.
- Transparent: Regular communication with affected parties about the progress of individual grievances is essential to retaining confidence in the process, and the provision of statistics, case studies and more detailed information about the handling of certain cases, can be important to demonstrate its legitimacy and retain broad trust. Simultaneously, the mechanism should ensure confidentiality of the dialogue between parties and of individuals' identities.
- **Rights-compatible**: Grievances are frequently not framed in terms of human rights, nor do they initially raise human rights concerns; where outcomes have implications for human rights, care should be taken to ensure that they are in line with internationally recognized standards.
- **Continuous learning:** Regular analysis of the frequency, patterns and causes of grievances, should be conducted in order to ascertain how policies, procedures or practices may be altered to prevent future harm.
- **Engagement and dialogue:** engaging with affected stakeholder groups (potentially through a third party) about the design and performance of the grievance mechanism can help to ensure that it meets their needs, that they will use it in practice, and that there is a shared interest in ensuring its success.

#### 6.2 PROPOSED GRIEVANCE PROCEDURE

The proposed Grievance Procedure for the Kariba Dam Rehabilitation Project is divided into six key steps. These are as follows:

- <u>Step 1</u>: Receive and Log Grievance;
- <u>Step 2</u>: Acknowledge Grievance;
- <u>Step 3</u>: Assess and Prioritise Grievance and Forward to Relevant Department;
- <u>Step 4</u>: Investigate and Resolve Grievance;
- <u>Step 5</u>: Sign-off on Grievance; and
- <u>Step 6</u>: Monitor.

The six steps are described in more detail below.

#### Step 1: Receive and Log Grievance

- The grievance is received by the ZRA or a Contractor representative. Regardless of who receives the grievance, it needs to be forwarded to the official CLO for his/her attention.
- The CLO logs the grievance using an official Grievance Log Form and ensures that it is captured in a consultation tracker in order to monitor actions taken to resolve the grievance. Refer to *Box* 6.2 for a typical lay-out of a Grievance Log Form
- It is important that the process of reporting a grievance is easily accessible and un-intimidating to any stakeholder.

### Box 6.2 Content of a Grievance Log

The grievance log will contain a record of the complainant and will record implementation dates for the following actions:

- Date the complaint was made;
- Information on proposed corrective action sent to complainant (if appropriate);
- Date response sent to complainant, and
- The date the complaint was closed out.

Each complaint will be assigned an individual number, to ensure that it is appropriately tracked and closed out.

#### Step 2: Acknowledge Grievance

- The CLO will acknowledge receipt of the grievance in writing and provide information on the proposed steps and the anticipated timeframes to resolving the grievance.
- This acknowledgement should be provided to the complainant within 5 days of receiving the grievance.
- If the grievance is not well understood or if additional information is required, clarification will be sought from the complainant.

### Step 3: Assess and Prioritise Grievance and Forward to Relevant Department

- The CLO will assess the grievance, and assign it a risk rating (see *Box* 6.3). The outcome of the risk rating has implications for how high within the Company the complaint is reported, and the seniority of management oversight required.
- Once the grievance has been rated, the grievance will be forwarded to the relevant department Manager to be addressed (e.g. Human Resources, Production, Procurement, HSE etc.).

• The grievance will be escalated to senior management if necessary and an Incident Investigation Team (overseen by the CLO) will be assigned within 10 days of receipt of the grievance, if deemed necessary. The Incident Investigation Team is comprised of staff from the relevant department to which the grievance applies.

### Box 6.3 Criteria for Prioritising Grievances/Complaints

The following criteria will be used as a basis for the prioritisation of different levels of complaints received.

- 1. A **Risk Level 1** grievance is one which is isolated, or "once-off" (within a given reporting period), and essentially local in nature, and has little potential to cause long term damage to stakeholder relations locally and nationally.
- **2.** A **Risk Level 2** grievance is one which is widespread and repeated, has resulted in attention from the media at local / regional level, and has the potential to cause damage to stakeholder relations locally and nationally.
- 3. A **Risk Level 3** grievance is one which is both widespread and / or repeated and which, in addition, has resulted in a serious breach of Company policies, or the law and / or has led to negative national / international media attention, *or* is judged to have the potential to generate negative comment from the media, or other key stakeholders. A Risk Level 3 complaint also has the potential to cause major damage to stakeholder relations, locally, nationally and internationally.

Repeated or continuous Level 1 or 2 complaints must be escalated to the next level up, if the cause is not rectified within an acceptable period of time. This categorisation provides an indication of the severity of the complaint, and has implications for how high within the Company the complaint is reported, and the seniority of management oversight required.

### Step 4: Investigate and Resolve Grievance

- The Incident Investigation Team will be tasked with seeking resolution to the grievance. This may entail a dialog or series of dialogs between affected parties to find a solution to the grievance. Alternatively, it may entail investigating the underlying cause of the grievance and action any changes required to internal systems to prevent a recurrence of a similar grievance.
- An Incident Investigation Report will be completed within 28 days.
- During the 28 days of dialog or investigation, the CLO will co-ordinate conflict resolution activities necessary to contain and resolve any actual or potential conflicts arising from the reported grievance.

### Step 5: Sign-off on Grievance

- The CLO will seek sign-off from the stakeholder that the grievance has been resolved.
- In instances where the stakeholder is not satisfied with actions taken, the grievance will either be escalated through the CLO to senior management and a decision will be taken either to implement supplementary actions or

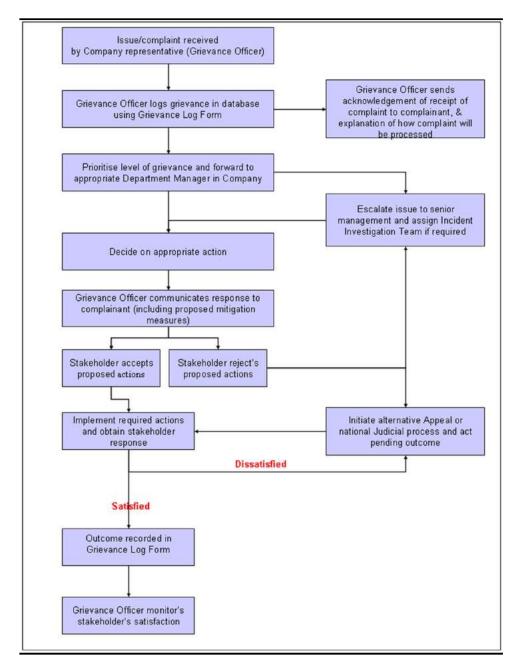
to consider initiating an appeal process or approaching the host country's judiciary to further address the grievance.

- Following this process, the CLO will again approach the stakeholder to obtain sign-off on actions implemented.
- All grievances to be signed off at an appropriate level of seniority of staff. In this regard, it may be suitable that:
  - $\circ~$  All grievances with a Level 1 risk rating will be signed off by the CLO.
  - All grievances with a Level 2 risk rating will be forwarded to senior management for sign-off (i.e. HSE Manager).
  - All grievances with a Level 3 risk rating will be forwarded to the site manager for his / her attention and sign-off. Whilst it may not be necessary to involve the HSE Manager in signing off complaints of low significance (e.g. Level 1), they should be involved in periodic reviews of actions taken for such grievances, to ensure their correct handling and classification.
- The staff member who signs off the complaint should have sufficient knowledge about the topic to provide assurance.
- Once sign-off has occurred, this should be recorded in the Grievance Log.

### Step 6: Monitor

- The CLO will monitor the satisfaction of the stakeholder and project personnel following sign-off (this will take place in the 28 days after sign-off).
- Any grievances not signed-off as resolved will be further investigated and the CLO will seek agreement from the stakeholder to maintaining contact in order to determine what further action is required to resolve the grievance.

A Grievance Procedure flow diagram is provided below in *Figure 6.1*.



This *Section* provides an overview of RAP development and implementation activities synchronized with a projects activities; see *Table 7.1.* Linking schedules in this way creates an imperative for co-ordinating resettlement with other project activities throughout the chain of project management.

## Table 7.1An Example of a RAP Implementation Schedule

Year		20	15			20	16			20	)17			20	18	
RAP Steps	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter
KAP Steps	1	2	3	4	1	2	3	4		2	3	4	1	2		4
						Pre-Con	structior	1								
	Development of Draft RAP															
Step 1 - Identify project impacts																
and affected populations																
<b>Step 2 –</b> Develop a detailed legal																
framework for land acquisition																
and compensation																
Step 3 – Develop a																
compensation framework																
<b>Step 4</b> – Describe the																
resettlement assistance and																
restoration of livelihood																
activities																
Step 5 – Describe a detailed																
budget and an implementation																
schedule.																
<b>Step 6</b> – Describe the																
organizational responsibilities																
<b>Step 7</b> – Develop a framework																
for public consultation,																
participation, and development																
planning issues																
<b>Step 8</b> – Develop a grievance																
mechanism for resettlement <b>Step 9</b> - Develop a framework																
for monitoring, evaluation and																
reporting																
Approval of Draft RAP						Cant				<u> </u>					_	
Undertake Community						Const	ruction							1		
Consultation Program as																
described in Step 7.																
Confirmation of Relocation Sites																
			L													<u> </u>

ENVIRONMENTAL RESOURCES MANAGEMENT

KARIBA DAM REHABILITATION WORKS RPF

Year		20	15			20	16			20	17			20	18	
RAP Steps	Quarter 1	Quarter 2	Quarter 3	Quarter 4												
Agreement of Entitlements																
Payment of Compensation																
Establishment of Links with Government Programs																
Implementation of Grievance																
Movement of Project Affected																
RAP Monitoring																
External Evaluations																

ENVIRONMENTAL RESOURCES MANAGEMENT

Funding requirements of a RAP is determined by relevant in-country legislation (in this instance either Zimbabwe or Zambia) as well as international standards.

The purpose of a RAP is broadly to ensure that all affected parties are fairly compensated and assisted in restoring their livelihoods. For this to happen, the RAP implementation process must be funded adequately. The funding component of a RAP is usually seen as being an integral part of the total project budget.

The primary aim of securing adequate RAP funds is to ensure the implementation of all compensation and mitigation measures required due to project impacts on the affected community. Both direct and indirect impacts must be compensated and or mitigated. This includes direct losses of agricultural land and grazing land, crops, economic trees as well as improvements on land such as housing and business structures (shops).

Importantly, funding for a RAP will provide for the mitigation of more indirect project impacts on vulnerable groups such as children or the elderly who might not have the ability to absorb project impacts as successfully as other impacted groups. Mitigation of vulnerable groups may include support during the physical process of moving or assistance with financial planning with compensation funds.

According to international standards, a RAP implementation process should be seen as an opportunity to enhance development in the project area. This necessitates the design and funding of development programmes in line with regional and local development opportunities that could also contribute to the restoration of livelihoods and stimulation of the local economy.

Other aspects of RAP implementation that will need funding are internal and external monitoring and evaluation of the RAP as well as the establishment and management of a Grievance Mechanism and Procedure.

All of the mentioned compensation and mitigation components must be translated into a single integrated RAP budget. This will provide the Project Proponent with a clear understanding of the financial implications of the RAP implementation process.

The following categories should be considered during the budgeting, however the budgets required will depend on the extent of the displacement:

• Development and implementation of an engagement and communication system;

- Implementation of a grievance mechanism;
- Detailed household surveys of affected households;
- Development of eligibility and entitlement matrix;
- Design of resettlement options and site selection process;
- Payment of compensation;
- Development and implementation of a livelihoods restoration programme; and
- Monitoring and evaluation.

In line with international standards, projects that induce displacement are required to monitor and report on the effectiveness of RAP implementation. This includes progress with the physical and economic displacement and restoration of livelihood activities, the disbursement of compensation, the effectiveness of consultation and participation activities by the affected communities and the sustainability of livelihood restoration and development efforts. The monitoring mechanism provides the basis to assess the success of the resettlement process and the effectiveness of the various implementation processes and measures.

Monitoring can be done via a wide range of mechanisms including primary and secondary data collection methods. The most commonly used methods are interviews with displaced people, review and analysis of secondary project sources such as minutes and reports and key stakeholder and focus group interviews such as with government representatives and NGOs. Site visits and inspections as well as compliance audits are typically used to verify compliance with RAP implementation measures and progress toward desired outcomes.

The monitoring mechanism will typically provide for two types of monitoring, namely internal monitoring and external monitoring. Internal monitoring is usually conducted by the RAP implementing body (the Project Proponent) as an internal project management tool with the purpose of ensuring that implementation measures are resulting in desired outcomes and if not, to define and implement corrective measures immediately.

External monitoring is usually conducted by an independent third party with the express purpose of gauging whether implementation is compliant with the approved compensation and mitigation measures as captured in the RAP. In the event that stated monitoring objectives and outcomes are not achieved, the external monitor makes recommendations to rectify this.

Both internal and external monitoring requires the following:

- The design of a monitoring plan and procedure;
- The identification of key monitoring objectives; and
- An overview of the roles and responsibilities of all parties involved in monitoring activities.

Examples of performance milestones could include:

- Number of Public meetings held;
- Census, assets inventories, assessments, and socio-economic studies conducted;
- Grievance redress procedures in place and functioning;

- Compensation payments disbursed;
- Housing lots allocated;
- Housing and related infrastructure completed;
- Relocation of people completed;
- Income restoration and development activities initiated; and
- Monitoring and evaluation reports submitted.

Finally, it is required that monitoring results are well documented, that suggested corrective and preventive actions are implemented, and that there is follow-up on these actions to ensure their effectiveness.

In conclusion, although the proposed Kariba Dam Rehabilitation Project will not result in any resettlement at this stage, if needed, a RPF (this document) outlining the general principles to be followed if any physical or economic displacement were to occur has been produced.

While host governments often take responsibility for the resettlement of project affected people, the Project Proponent still remains with the responsibility to ensure that the outcomes of the resettlement is consistent with IFC's performance standards on involuntary resettlement.

Therefore, this RPF was developed to provide the ZRA with an understanding of the principles, procedures and organisational arrangements that will be required from the Governments of Zimbabwe and Zambia as well as from the Project Proponent during implementation.

## 20 Annex G. COVID-19 Prevention and risk management Proposed Plan

#### 1. Introduction - Recommendations to the government and project

The project will follow this guidance note to prevent and managed risk associated to Covid19 pandemics or other zoonotic diseases outbreaks and to prepare a Covid 19 prevention and risk management plan, following the government installed protocols, the World Bank Interim Note and other measures to agree during project implementation.

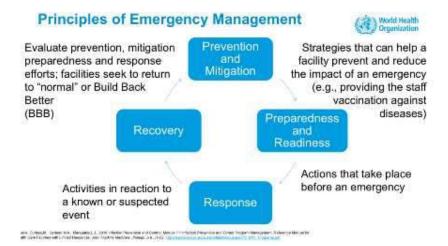
The Budge to cover any expense related to the preparation and implementation of this plan will be cover by the project contractors and ZRA.

 The WHO recommend the following steps to manage a health emergency such as the COVID 19 through four steps:

 Prevention and mitigation measures,
 Preparedness,
 Response, and
 Recovery (figure below). More information can be found here: https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technicalguidance/infection-prevention-and-control

There are also courses available online at the WHO that can be taken by the EHS teams. https://www.who.int/emergencies/diseases/novel-coronavirus-2019/training

2. The Prevention and Response for Covid19- in the project needs to ensure proper prevention measures and readiness to respond in case of an outbreak.



Please arrange Plan in at least 3 sections:

- I) prevention and mitigation (including movement of people, social distancing, supply and facilities available, training),
- II) response (contingency plan)
- III) Monitoring. Ensure plan has been agreed and signed with the medical staff that will support the project (health clinic, doctor hired by the project, or other). A template for monitoring the workforce or community is attached at the end.

- a. The contractors must ensure protection supplies on site to increase protection and minimize spread in the community by outside workers.
- b. Improve the Contingency or Emergency plan in a case of an outbreak;
- c. Give maximum priority to the health of all workers and surrounding communities
- d. Prepare the weekly Monitoring report
- e. Perform a simulation exercise at least 1 month after starting the works

#### 2.2 Detailed measures and recommendations

Α	A Movement of workers/contractor	s								
	Describe the measures applicable	Describe the measures applicable for Managing movement of international workers								
	from other places to the work sites	from other places to the work sites								
2	Describe the measures applicable for Managing movement of workers from local									
	communities who do not live in the project sites									
3	3 Describe the measures applicable	Describe the measures applicable for Managing movement of casual workers who do								
	not live in the project areas									
	Describe the measures applicable	Describe the measures applicable for Managing movement of contractors that visit								
	the project site to deliver workers,	materials, foo	od, water, others? List them all							
В	B Hand washing stations									
	and paper towel to hand drying. Pl stations and a simple drainage cha accumulation of water in the area. -Place <i>Water tanks</i> with clean wate water with zero Total Coliforms ar -Indicate the locations where these -Request social distancing when us -Placed a board with a poster or te	<ul> <li>-Install hand washing stations areas with a table to place - liquid soap, hand sanitizer and paper towel to hand drying. Placed poor-concrete in the foot of this water stations and a simple drainage channel to carry to water away from the site and avoid accumulation of water in the area.</li> <li>-Place <i>Water tanks</i> with clean water for washing hands. Contractors to demonstrate water with zero Total Coliforms and zero <i>E. coli</i>.</li> <li>-Indicate the locations where these stations have been placed.</li> <li>-Request social distancing when using the hand washing station</li> <li>-Placed a board with a poster or text indicating how to properly wash the hand and communication to Avoid touching the face</li> </ul>								
С	C Personal Protection Equipment (P	PE)								
_			evidence of purchase and stock of the							
	following PEP equipment by contr									
	PPE N95 mask, disp		Monitored with Copies of							
	groves, tissues,	hand	purchased – volume and number							
	sanitizer, etc.		in site or in transit							
	<ul> <li>2.PPE must be in quantity depending of the number of workers working per day in the camp. Please remember that under a potential emergency that PPE should be store for health workers, sick workers and potential collaboration with local health facilities.</li> <li>3.Explain How often the workers are required to change mask and gloves</li> <li>4.Indicate how much time will the current supply on site will last (weeks or months)</li> <li>5. Explain the PPE available for medical staff – comply with the WHO recommendations:</li> </ul>									
	<ul><li>camp. Please remember that under</li><li>for health workers, sick workers ar</li><li>3.Explain How often the workers a</li><li>4.Indicate how much time will the</li></ul>	er a potential e id potential co re required to current supply	emergency that PPE should be store illaboration with local health facilities. change mask and gloves on site will last (weeks or months)							

	https://www.who.int/publications-detail/advice-on-the-use-of-masks-in-the-
	community-during-home-care-and-in-healthcare-settings-in-the-context-of-the-novel-
	coronavirus-%282019-ncov%29-outbreak
	O Do not re-use single-use masks.
	<ul> <li>Discard single-use masks after each use and dispose of them immediately</li> </ul>
	upon removal.
	<ul> <li>Replace masks as soon as they become damp with a new</li> </ul>
	<ul> <li>clean, dry mask.</li> </ul>
	Costal distancing
D	Social distancing
	1-The plan needs to include measures to prevent infection by social distancing.
	-Explain how these measures will be enforced in the movement of workers, and
	workers coming from local communities, common areas such as canteens, shower
	areas, washing cloth areas, etc.
	-Add the WHO recommendations: bent elbow or use paper tissue if coughing or
	sneezing, dispose of the tissue immediately after use, and perform hand hygiene.
	Read more detail in the WHO website- updated March 19, 2020.
	https://www.who.int/publications-detail/advice-on-the-use-of-masks-in-the-
	community-during-home-care-and-in-healthcare-settings-in-the-context-of-the-novel-
	coronavirus-%282019-ncov%29-outbreak
	-Describe waste management protocol to collect contaminated used paper towel and
	used PPE. Contractors must define a protocol to collect used PPE and discarded
	properly and no disposed in the dumping areas or rivers o wetlands where other
	people can become contaminated.
E	Measures in common areas (canteen, offices, showers, washing areas, etc)
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	-describe the people responsible for waste collection of PPE and cleaning -Describe what protection PPE will be given to these workers, training, -Indicate the disposal site and waste management procedure							
Н	Training							
5	<ul> <li>Describe the Trainings activities that the PIU and contractors will implement. There are many topics that need to be explained before the works, during the works and before the works are accepted,</li> <li>Hand washing, protect others when coughing</li> <li>Avoid hand checking, kissing or hugging</li> <li>Community protection</li> <li>Protocol in areas of common areas: offices, traveling, transportation of materials, construction sites, etc.</li> <li>Procedure in case to get sick and information of contact in case of emergency</li> </ul>							
1	Communication of the Covid 19 Prevention and Response Plan							
	Describe how the PIU and contractors will communicate to the workforce, their roles and responsibilities; these should be outlined clearly, and the importance of their behavior to co-workers, local communities and their families, etc.							
J	Emergency Response - Contingency Planning for an Outbreak							
	<ol> <li>Coordination local health centers. The PIU and contractors will maintain close communication with the local health department, according to the spread of covid-19 to update the plan.</li> <li>Ensure that the medical team lead the preparation of this contingency plan, coordinate with the district medical facilities and other contractors in area, and with local community.</li> </ol>							
	2. <b>MEDICAL workers.</b> Make sure the medical staff as required in the bidding document is compliance.							
	3. Please describe the Emergency Command Team and responsibilities							
	<ul> <li>✓ PIUs, Environmental and Social Specialists</li> <li>✓ Medical staff by the contractor</li> <li>✓ Health authorities from the district??</li> <li>✓ Managers, Site supervisors</li> <li>✓ Workers coordinators</li> <li>✓ Communities</li> <li>✓ other</li> </ul>							
	<ul> <li>4.PPE for medical staff.</li> <li>-Describe protocol for health care interaction with sick patient, to ensure health staff wear personal protective equipment (PPE)?</li> <li>-Confirm the PPE supply for medical staff, as minimum there must have: N-95 masks, single use gloves, goggles or a face shield</li> </ul>							

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	5. Response Protocol
	1. Plan proposed to move someone displaying symptoms to the observation room.
	Response protocol must be more detailed.
	<ul> <li>Indicate protocol to manage at least 10% of the workforce if this become ill</li> <li>Indicate protocol in case the ill workers need ventilation or medical treatment no available in the camp.</li> <li>Describe the arrangement made with local or private medical facilities to attend sick workersIndicate the number of patients that these clinics could provide medical attention- indicate the distance from the camp sites to these clinics.</li> <li>Is the local medical facility well equipped (ICU, ventilators, etc)?</li> <li>Indicate the protocol in case health workers become sick.</li> <li>Indicate how the project will maintain safety on site and of the community if many workers become ill</li> </ul>
	-Ensure clauses in contract of contractors cannot fired sick workers
	-Ensure clauses in contract of contractors they will be pay during their sick leave
	-Ensure clauses in contract of contractors in case workers die for the virus- how
	compensation will be pay to the family and the payment of funeral.
	7. The emergency response protocol must be clearly described. The response protocol
	<ul> <li>must include:</li> <li>✓ Command team and coordination with local Health facilities</li> <li>✓ The medical team must lead the Training and provision of PPE to health</li> </ul>
	workers
	<ul> <li>Monitoring plan for health in workers and sick people</li> </ul>
	<ul> <li>✓ Protocol of communication with local community</li> <li>✓ Protocol and criteria for Isolating sick people or decision to move to clinic</li> </ul>
	<ul> <li>✓ Protocol and criteria for Isolating sick people or decision to move to clinic</li> <li>✓ Protocol in case health workers become sick and are place in isolation rooms</li> </ul>
	<ul> <li>Protocol to manage transportation of sick people to other health facilities</li> </ul>
	<ul> <li>Protocol for Communication with the family of sick people</li> </ul>
	<ul> <li>Responsible to feed and care sick people in health facilities</li> </ul>
	✓ Protocol in case of death of workers from Rwanda or from other countries
	(compensation, insurance, etc).
	✓ What is the plan to manage workers if restrictions are imposed in Rwanda or
	the project area?
	Monitoring
	Describe the monitoring plan that will be implemented by the project and medical
	staff.
	An example template is attached. This report will be sent to the PIU-weekly. The PIU
	will inform the Bank of the results of all project sites.
I	Other
	<ul> <li>a. PIUs role in raising awareness in community</li> <li>Agroad with communities how to manage their concerns.</li> </ul>
	<ul><li>b. Agreed with communities how to manage their concerns</li><li>c. PIU must hold constant meetings with local workers so the contractor</li></ul>
	understands their responsibilities to reduce the risk for them and the
	local communities
	d. PIU have a responsibility to ensure community safety.
	e. PIU should coordinate with district and contractors in the case of an
	outbreak in the local communities

Covid19 Plan- Monitoring template for reporting/monitoring the situation of the workforce.

#### Name of the Project

During the COVID19 outbreak, it is necessary to monitor the spread of the disease and to confirm that prevention arrangements are in strict compliance

Each contractor should be asked to provide the following data on a weekly basis;

The contractors may decide that their medical staff are best placed to provide this information.

Project staff will do weekly audits to check project situation

Contractor:

Date:

Reported by:

Medical staff present on site:

Number of Workers on site:

Metrics/Indicato	ors	Status	Respond/ fill this column
Number of Work	er movements	Number arriving / Number departing	
Numbers of wor acute onset of th symptoms:	kers presenting with ne following		
• (>103F/37.8C)	Fever	Number:	
•	Muscle aches/chills	Number:	
• phlegm)	Cough (dry or	Number:	
•	Runny nose	Number:	
•	Headache	Number:	
•	Fatigue	Number:	
		Total number	
		Proportion of total workforce:	
Numbers of com	munity members pres	enting with acute onset of the follo	owing symptoms:
• (>103F/37.8C)	Fever		
And one or more	e of:	Number:	
•	Muscle aches/chills	Number:	
• phlegm)	Cough (dry or	Number:	
•	Runny nose	Number:	
•	Headache	Number:	

Kariba Dam Rehabilitation Project (KDRP)

Number:				
Total number				
Proportion of total workforce:				
Number:				
Number undertaken:				
Number of observations: (compliant)	Number of observations: (non- compliant)			
Number of observations: (compliant)	Number of observations: (non- compliant)			
Number of observations: (compliant)	Number of observations: (non- compliant)			
	Total number Proportion of total workforce: Number: Number: Number: Number: Number: Number: Number of observations: (compliant) Number of observations: (compliant) Number of observations:			