

## Zambezi River Authority



## Kariba Dam Rehabilitation Project (KDRP)

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



Revised – October 12, 2020  
Zambezi River Authority  
Kariba

List of Annexes which are integral part of the ESIA and ESMP of Kariba Dam Rehabilitation Project

Annex A	Administrative and Legal Framework of Zambia and Zimbabwe
Annex B	Consultation Materials and evidence of meetings.
Annex C	IBAT Proximity Report
Annex D	General Requirements
Annex E	Health, Safety, Environmental and Social Requirements included in the ZRA / Contractor contracts
Annex F	Resettlement Policy Framework
Annex G	Covid19 guidance

## **14 Appendix A – Administrative and Legal Framework of Zambia and Zimbabwe**

### **14.1 Introduction**

This Appendix presents a review of the Zambian and Zimbabwean institutions, and policy and legal framework that may be applicable to the Kariba Dam Rehabilitation Project (KDRP). Specifically, it presents:

- The range of government organizations that may be involved in the regulation of KDRP;
- Zambian and Zimbabwean environmental and social laws and regulations which may be applicable to KDRP; and
- Relevant international treaties, conventions and protocols to which Zambia and/ or Zimbabwe is/are a signatory/ies.

#### **14.1.1 Zambezi River Authority (ZRA)**

The Zambezi River Authority (ZRA) is mandated by the governments of Zambia and Zimbabwe to operate and maintain the infrastructure on the Zambezi River.

The ZRA is a statutory body jointly owned by the governments of Zambia and Zimbabwe. The ZRA was established on 1 October 1987 as a result of parallel legislation tabled before the parliaments of the Republics of Zambia and Zimbabwe, which followed the reconstitution of its predecessor, the Central African Power Corporation (CAPCO). Generating assets on the Zambezi River were subsequently handed over to the two national power utilities, the then Zambia Electricity Supply Corporation, now ZESCO Limited (ZESCO) and the then Zimbabwe Electricity Supply Authority now represented by Zimbabwe Power Company (ZPC). The ZRA has responsibility of the operation and maintenance of infrastructure on the Zambezi River (which is common to both Zambia and Zimbabwe), investigation and development of new dam sites on the Zambezi River and collecting, processing, analysing and disseminating hydrological and environmental information pertaining to the Zambezi River and Lake Kariba.

The ZRA is governed by a Council of Ministers consisting of four members from Zambia and Zimbabwe. The common Ministries in the council are those responsible for Energy and Finance. In terms of the Zambezi River Authority Acts, the Council of Ministers gives direction, through the ZRA Board of Directors, to the ZRA to ensure the most efficient use of the Zambezi River and any other infrastructure developed on it.

The ZRA has the following four main strategic functions, which are outlined in the schedule to the Zambezi River Authority Acts Nos. 17 and 19 of 1987 of Zambia and Zimbabwe, respectively:

1. In consultation with the national electricity undertakings investigate the desirability of constructing new dams on the Zambezi River and make recommendations thereon to the Council;
2. Subject to the approval of the Council, construct, operate, monitor and maintain any other dams on the Zambezi River;
3. Make such recommendations to the Council as will ensure the effective and efficient use of waters and other resources of the Zambezi River; and
4. Submit development plans and programmes to the Council for approval.

## **14.2     Zambian Institutional Framework**

### **14.2.1   Ministry of Lands, Natural Resources and Environmental Protection**

The Ministry of Lands, Natural Resources and Environmental Protection is charged with the critical responsibility of land administration, natural resource management and environmental protection on behalf of the people of Zambia. The following Departments fall under this Ministry:

- Human Resource and Administration;
- Lands and Deeds;
- Lands Department;
- Survey Department;
- Forestry Department; and
- Environment and Natural Resources Management Department (ENRMD).

#### *14.2.1.1 Environment and Natural Resources Management Department*

The Environment and Natural Resources Management Department (ENRMD) was established by presidential declaration which merged the then Ministry of Tourism (MOT) and the Ministry of Environment and Natural Resources (MENR) in 2002. It became operational in February 2003 but was not established by an Act of Parliament.

The ENRMD is responsible for the overall policy formulation on environment, natural resources and pollution control in the Ministry which is the focal point for all environmental and natural resource management issues in the country. The department also co-ordinates, monitors and evaluates the operations of the executive agencies that have been created to implement policies on behalf of the government.

The Department of Environment and Natural Resources Management focuses on the achievement of the following six objectives as they relate to issues of the environment and natural resources as outlined in the Strategic Plan (2002 – 2006), which is currently under review):

- To facilitate and promote research and development in environment, wildlife, forestry and cultural heritage in order to increase knowledge and its utilisation;
- To facilitate and monitor the implementation of international agreements and treaties in environment and natural resources in order to promote Zambia's interests and meet international obligations;
- To promote investment in environment and natural resources in order to contribute to employment creation, poverty alleviation and supply of raw materials;
- To facilitate the quality provision of education and training in environment and natural resources in order to contribute to their effective management, sustainable development and utilisation;
- To undertake and facilitate rehabilitation of degraded habitats in order to restore the productivity of Zambian flora and fauna; and
- To promote the effective management of forest, wildlife and heritage resources in order to ensure their sustainable utilisation and contribute to the alleviation of rural poverty.



#### *14.2.1.2 The Zambia Environmental Management Agency*

The Zambia Environmental Management Agency (ZEMA) falls under the ENRMD. Accordingly, the ENRMD co-ordinates, monitors and evaluates the operations of ZEMA and is mandated to ensure that the proposed Project is undertaken in a way that it complements the six objectives related to issues of the environment and natural resources as outlined in the Strategic Plan (2002 – 2006).

The Zambia Environmental Management Agency (ZEMA), previously known the Environmental Council of Zambia (ECZ) is the umbrella environmental institution in Zambia and the main lead agency on matters pertaining to environmental impact assessments (EIA). It is empowered by the Environmental Management Act (No. 12 of 2011) to identify projects, plans and policies for which an EIA is necessary.

The general functions of the ZEMA are to ensure the sustainable management of natural resources, the protection of the environment, and the control of pollution, as provided under Section 9(1) of the Environmental Management Act. However, more specifically, the ZEMA serves inter alia to:

- Co-ordinate the implementation of activities of all government ministries, appropriate authorities and conservancy authorities in matters relating to the environment;
- Develop standards and guidelines relating to the protection of air, water, land and other natural resources;
- Provide for environmental monitoring and auditing as well as establishing and managing of the environmental fund;
- Develop and enforce measures aimed at preventing and controlling pollution;
- Advise the government on the formulation of policies on all aspects of the environment and make recommendations for the sustainable management of the environment;
- Advise on all matters relating to environmental conservation, protection and pollution control, including necessary policies, research, investigations and training;
- Initiate, conduct and promote research, surveys, studies, training and investigations in the interests of environmental management;
- Identify projects, plans and policies that need environmental impact assessments;
- Monitor trends with respect to natural resources, their use and impact on the environment and make necessary recommendations to the appropriate authority;
- Undertake general education programmes for the purpose of creating public awareness of the environment;
- Provide for public consultation in environmental decision – making and access to environmental information;
- Request information on proposed projects and advise stakeholders on projects, programmes, plans and policies for which environmental assessment is necessary; and

- Facilitate the implementation of international environmental agreements and conventions to which Zambia is a party.

The services provided by the ZEMA specifically in relation to EIA studies include:

- Assisting the developer to determine the scope of EIA studies;
- Reviewing project briefs, terms of reference, and environmental impact statements (EIS) and decision-making;
- Disclosure of the EIS to the public through the media;
- Holding public hearing meetings to discuss the EIS with stakeholders;
- Conducting verification surveys of the affected environment;
- Monitoring the project once implemented;
- Conducting compliance audits of the project between 12 and 36 months after implementation; and
- General administration of all the Regulations under the Environmental Management Act.

ZEMA has a number of units which control various aspects of environmental pollution planning and environmental management. These have been organised under two departments: the Pollution Control Inspectorate, which is responsible for all pollution and regulation issues pertaining to waste, emissions and toxic substances. This inspectorate also has a dedicated unit responsible for EIAs; and the Planning and Information Management Department, which comprises units in charge of planning, monitoring, education, communication, information, documentation and data management.

#### **14.2.2 Ministry of Mines, Energy and Water Development**

The Ministry of Energy and Water Development (MEWD) has been merged with the Ministry of Mines to form a new Ministry of Mines, Energy and Water Development. The Ministry comprises six Departments. The functions of the Department of Energy (DoE) are:

- To develop, articulate and implement a Policy on Energy;
- To formulate programmes for the development of the energy sector;
- To ensure that there are efficient and reliable supplies of energy for socio-economic development;
- To integrate the energy sector into Zambia's national and regional development strategies; and
- To regulate the energy sector through appropriate legislation including the development of new laws and by-laws.

The functions of the Department of Water Affairs (DWA) include the following:

- To oversee and control activities of water resource development and management in order to prevent the indiscriminate consumption of water resources;
- The provision of sufficient and reliable data on water resources availability and demand in the country, to allow for effective planning;
- Utilisation and management of water resources; and
- The development and management of water conservation.

The DWA is comprised of a Groundwater Resources Section, a Surface Water Resources Section and a Water Resources Management Section. The Surface Water Resources Section and the Water Resources Management Section will have an interest in how the Project will affect surface water flows in the Zambezi River and the effects on current water resource use in the area. These governmental institutions will govern to what extent the current water use system can be altered.

In addition to these two departments, the MMEWD supervises the following statutory/parastatal bodies: the Energy Regulation Board (ERB); ZESCO Ltd; the Water Resources Management Authority; and the Office for Promoting Private Power Investment (OPPI).

#### *14.2.2.1 The Energy Regulation Board*

The Energy Regulation Board (ERB) has the mandate of regulating the energy sector in line with the provisions of the Energy Regulation Act of 2003. The ERB has the responsibility of ensuring that power generating utilities earn a reasonable rate of return on their investments that is necessary to provide a quality service at affordable prices to the consumer.

In order to carry out this role, the ERB, among other functions, ensures that all energy utilities in the sector are licensed, monitors levels and structures of competition, and investigates and remedies consumer complaints.

#### *14.2.2.2 ZESCO Limited*

ZESCO Limited is a parastatal, with the main function of producing power in Zambia, and is the operator of the Kariba North Bank power station. ZESCO produces approximately 80 % of the electricity consumed in the country and has historically been the main player in the generation, transmission and distribution of electricity in Zambia. In addition, ZESCO represents Zambia in the Southern African Power Pool. Due to the ever-increasing demand for electricity both in Zambia and in the region, ZESCO is currently being forced to source more electricity from independent power producers (IPPs) such as Lunsemfwa Hydro Power Company (LHPC).

MEWD, Energy Regulation Board (ERB) and ZESCO Limited are all key stakeholders in KDRP, as it directly concerns the rehabilitation of power generation assets.

#### *14.2.2.3 Water Resources Management Authority*

Due to the increase in population, the demand for water for power generation, direct consumption and other uses of water has increased in Zambia. As such, the Water Resources Management Authority was developed in response to these often conflicting demands for water. The Water Resources Management Authority is essentially an executive wing of government which provides necessary information for the control of abstractions from water bodies in Zambia. Any person who wishes to store or divert water from public streams and waterways for primary, secondary, or tertiary use must obtain permission from the Water Resources Management Authority.

The proposed Project has the potential to impact on water quality of the Zambezi River downstream of the excavation works associated with rehabilitation of the plunge pool. Accordingly, the Zambian Water Resources Management Authority were a key stakeholder in the ESIA process.

### **14.2.3 The Zambia Wildlife Authority**

The Zambia Wildlife Authority (ZAWA) is a corporate body established by the Zambia Wildlife Act of 1998. The primary objectives of ZAWA are:

- To improve the quality of life amongst communities in wildlife estates and the maintenance of sustainable biodiversity in national parks and game management areas;
- To reverse the decline in wildlife resources;

- To improve wildlife resource management to a level which will secure a sustainable flow of benefits from such wildlife resources; and
- To considerably improve the wildlife resource base investment in co-operation with the private sector and local communities.

The proposed Project is situated in an area that may be inhabited by faunal species and flora species of concern. Furthermore, the areas downstream of the dam up to the Mozambique border consist of National Parks and extensive transfrontier conservation areas. Accordingly, the Zambian Wildlife Authority is regarded as a key stakeholder and was consulted during the ESIA process.

#### **14.2.4 The National Heritage Conservation Commission**

The National Heritage Conservation Commission (NHCC), formally known as the Commission for the Preservation of Natural and Historical Monuments and relics (National Monuments Commission), is the national institution mandated to manage and conserve Zambia's cultural and natural heritage resources, including significant: historic/architectural/buildings; historic sites; anthropological sites; archaeological sites; geomorphological sites; geophysical sites; paleontological sites; and ecological and other sites.

##### *14.2.4.1 The National Museum Board*

The National Museum Board of Zambia (NMB) is a corporate body which has the principal role of preserving the nation's history and movable heritage. The Board is mandated to collect, document, present to the public and to preserve for posterity Zambia's movable heritage.

Although it is not anticipated that there are any cultural heritage sites located in the Project Area, there may be sub-surface archaeological resources that could fall within the footprints of proposed ground disturbing activities. Accordingly, the National Museum Board was considered a stakeholder in the ESIA process.

#### **14.2.5 Ministry of Tourism and Arts**

The Ministry of Tourism and Arts was created in 2011. This brought together the portfolio functions of tourism from former Ministry of Foreign Affairs and Tourism and the portfolio functions of Culture from the Ministry of Chiefs and Traditional Affairs. This was done in order to streamline and rationalise the functions and operations of the tourism and cultural sector.

The Kariba Dam is a key tourism area and international visitors are attracted to the water body and the surrounding rural/natural environment for a variety of activities, including - safaris, boating, fishing, sunset cruises, canoeing, water sports, bird watching, cultural village tours and visiting look-out points. Accordingly, the Ministry of Tourism and Arts is regarded as a key stakeholder and was consulted during the ESIA process.

#### **14.2.6 Other Line Ministries**

Environmental and social issues cut across a wide variety of sectors and there are a number of government institutions and agencies which are involved in environmental and social management. Some of the ministries, sectorial agencies and authorities that may also need to be consulted as part of the Project are: Ministry of Agriculture and Livestock; Ministry of Health; Ministry of Education, Science and Vocational Training; and Ministry of Local Government and Housing.

## **14.3     Zambian Environmental and Social Laws and Regulations**

Table 14.1 presents a summary of the Zambian national legislation that is considered applicable to KDRP.

### **14.3.1     National Policy on Environment (November 2007)**

The Government of the Republic of Zambia has developed a National Policy on Environment to avoid conflict of interest, harmonise sectorial strategies, and rationalise legislation that concerns the use and management of environment. The purpose of this policy is to attain an integrated approach to development through a national cross-cutting consensus. This Policy was developed through a research and consultative process and will be fully integrated in principles of decentralisation, community participation and privatisation that underpin sustainable development.

Section 7.1.4.2 of the Policy states that EIAs are (where deemed necessary) required to ensure that public and private sector development options are environmentally-sound and sustainable and that any environmental consequences are recognised early and taken into account in project design and implementation.

In this respect, and to fulfil the requirements of the Policy, the ZRA contracted ERM to carry out a detailed ESIA for the proposed Project. The ESIA was carried out in conformance to both the Zambian and Zimbabwean environmental legislation and other international requirements.

### **14.3.2     The Zambian Environmental Management Act**

The Zambian Environmental Management Act (EMA) (Act 12 of 2011) is the principal law on integrated environmental management in Zambia. The Zambian EMA was enacted in April 2011 to repeal and replace the Environmental Protection and Pollution Control Act (EPCCA) (CAP 204) and its Amendments.

Section 4 mentions that every person living in Zambia has the right to a clean, safe and healthy environment and should a person is threatened or is likely to be threatened as a result of an act or omission of any other person, bring an action against the person whose act or omission is likely to cause harm to human health or the environment. Moreover, Section 5 states that every person has a duty to safeguard and enhance the environment. Part IV (Division 1) contains provisions for pollution control including protection of the atmosphere (Section 31), environmental emergency preparedness (Section 41) and regulations around pollution control (Section 43).

Division 2, Sections 45 to 48 of the Act make considerations for water resources. More specifically, Section 46 states that a person shall not discharge or apply any poisonous, toxic, eco-toxic, obnoxious or obstructing matter, radiation or other pollutant, or permit any person to dump or discharge such matter or pollutant into the aquatic environment in contravention of water pollution control standards.

Section 52 of Division 3 (Part IV) of the Act states that ambient air quality standards and guidelines shall be established under this Division and published. Section 68 of Division 6 (Part IV) of the Act states that person shall not emit noise in excess of the noise emission standards established. Section 77 (2) of Division 8 of the Act states that no person shall place any invasive alien species into any element or segment of the environment. Moreover, Section 78 states that an occupier of any land shall take such measures as are prescribed and are reasonably necessary for the eradication or prevention of the spread of invasive alien species.

### **14.3.3 Environmental Impact Assessment Regulations**

The Environmental Impact Assessment (EIA) Regulations, which provide the framework for conducting and reviewing environmental impact assessments for any project, fall under the EPPCA (Statutory Instruments No. 28 of 1997). The Regulations enacted under the EPPCA are still in force until the Minister enacts new Regulations under the Zambian EMA (Act, No 12 of 2011). The EIA process to be undertaken for this Project is illustrated in Figure 14.1 below.

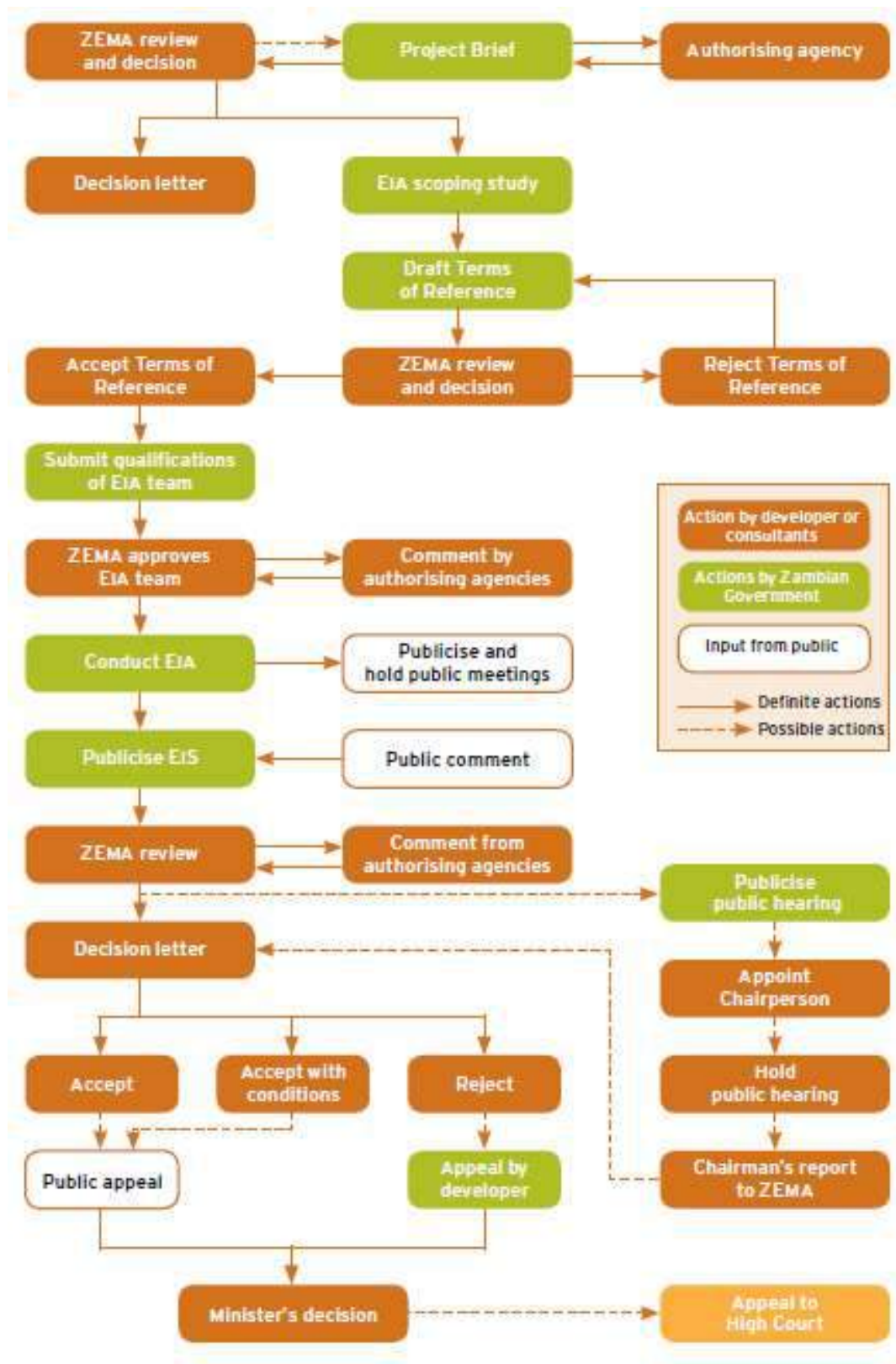
### **14.3.4 The Environmental Management (Licensing) Regulations, S.I. No. 112 of 2013**

The Environmental Management (Licensing) Regulations were published under the Zambian EMA and provide for licensing requirements pertaining to specific subject areas, including:

- Air and water pollution;
- Waste management;
- Hazardous waste;
- Pesticides and toxic substances; and
- Ozone depleting substances.

The Environmental Management (Licensing) Regulations have provided for the repeal of the following legislation:

- The Waste Management (Licensing of Transporters of Wastes and Waste Disposal Sites) Regulations, S.I. No. 71 of 1993;
- The Water Pollution Control (Effluent and Waste Water) Regulations, S.I. No. 72 of 1993;
- The Pesticides and Toxic Substances Regulations, S.I. No. 20 of 1994;
- The Air Pollution Control (Licensing and Emission Standards) Regulations, S.I. No. 141 of 1996;
- The Environmental protection and Control (Ozone Depleting Substances) Regulations, S.I. No. 27 of 2001; and
- The Hazardous Waste Management Regulations, S.I. No. 125 of 2001.



**Figure 14.1 Zambian ESIA Process**

Source: SADC Environmental Legislation Handbook 2012

The Regulations were published under the Zambian EMA and provide for licensing and management requirements for:

- Air Pollution Monitoring Permits – under the Air Pollution Control (Licensing and Emission Standards) Regulations, 1996;
- Water Effluent Discharge Permits – under the Water Pollution Control (Effluent and Wastewater) Regulations, 1993;
- Waste Management Licenses – under the Waste Management (Transporters of Waste/Operation of Waste Disposal Sites) Regulations, 1993 Hazardous Waste Management Regulations, 2001; and
- Pesticides and Toxic Substances Licences – under the Pesticides and Toxic Substances Regulations, 1994.

The applicability of these specific permits/licenses will need to be considered as Part of final Project Design.



**Table 14.1 Summary of Relevant Zambian Environmental and Social Legislation**

Component	Applicable Legislative Instrument	Description of Legislative Instrument
<b>Natural Resources and Heritage</b>		
Water Resources	<ul style="list-style-type: none"> <li>Water Resources Management Act, No 21 of 2011</li> </ul>	<p>Part V (Water Quantity and Quality Management), Section 46 mentions that discharge into a water resource shall be done in accordance with the Environmental Management Act, 2011.</p> <p>According to Section 71 (activities where water permits may be required), a person who intends to carry out activities identified in this Section shall apply for a permit and pay such charges, for the use of the water, as may be prescribed. It is the understanding of this process that a water permit will not be necessary for this Project.</p> <p>In accordance to Section 149 (Part XIV), all significant spills to a water course must be reported to the police, appropriate authorities (including conservation authorities), catchment council and local authority.</p> <p>Such management measures have been considered in this ESIA and associated ESMP, particularly to the</p>
Wildlife and Natural Resources	<ul style="list-style-type: none"> <li>Zambia Wildlife Act, No. 12 of 1998</li> </ul>	<p>Part VI (Game Animals and protected Animals) includes provisions for game and protected animals. More specifically Section 31 of Part VI states that any person who hunts any game or protected animal, except under or in accordance with the conditions of a valid license issued under Part VII of this Act, shall be guilty of an offence. This is further reiterated in Section 67 of the Act. Notwithstanding anything of the contrary of the Act, Section 78 of Part IX states that a person may kill any wild animal in defence of himself or in defence of any other person if it is necessary – provided that nothing in the Act shall exonerate any person, who at the time of killing any wild animal in self-defence or in defence of any other person, was committing an offence under the Act. Should such a kill take place, the person who killed the animal shall, within a period of forty eight hours, make a report of the facts to the nearest proper officer. In accordance with Section 80 of the Act, any person who kills any game animal or protected species through accident or error shall within a period of fourteen days make a report of the act to nearest proper officer.</p> <p>As the Kariba Dam Rehabilitation Project will be in relatively close proximity to Protected Areas, management/mitigation commitments for the protection of terrestrial fauna will need to be considered in the</p>
Fisheries and Wetlands	<ul style="list-style-type: none"> <li>National Policy on Wetlands Conservation, September 2001</li> </ul>	<p>This Policy was formulated in response to the fragmented sectoral policies and Acts. It aims to provide a holistic programme of action to promote the conservation and wise use of wetland ecosystems. It acknowledges the importance of wetland ecosystems in Zambia in providing major fisheries and as important habitats for various wildlife species.</p> <p>The management of surface water quality, aquatic environments (including aquatic vegetation) and terrestrial ecology (including fauna utilising wetland habits) is provided in the ESMP. This ESIA has considered the</p>

Component	Applicable Legislative Instrument	Description of Legislative Instrument
Noise & Vibration	<ul style="list-style-type: none"> <li>Part IV of EMA, No. 12 of 2011</li> </ul>	Section 68 of Division 6 (Part IV) of the Act states that person shall not emit noise in excess of the noise emission standards established.
Explosives	<ul style="list-style-type: none"> <li>Explosives Act (No 10 of 1974) Regulations are in draft stage.</li> </ul>	<p>Section 3 of the Act states that the Act shall apply (amongst others) to the, storage, use, possession and transportation of explosives.</p> <p>Part I of the Act provides general measures for the storage, handling and use of explosives. Part III includes provisions for the transportation of explosives by waterway, road, rail or air; and Part IV includes provisions for the transportation of explosives around the work site. Part V includes provisions for the storage of explosives at the work site and Part VIII includes requirements for the use of explosives.</p> <p>Blasting management measures are provided for in the ESMP. The development of these measures and detailed design around blasting management for the Kariba Dam Rehabilitation Project has and will take these</p>
<b>Energy</b>		
Energy	<ul style="list-style-type: none"> <li>Energy Regulation Act, Cap 436, 1995</li> </ul>	Provides for the control in the pricing of energy products in the country as well as the quality.
	<ul style="list-style-type: none"> <li>The Petroleum Act, (No. 8 of 1995)</li> </ul>	The areas of the Petroleum Act of relevance to this project are regulations for the conveyance and storage of
	<ul style="list-style-type: none"> <li>The Electricity Act, 1995</li> </ul>	Regulate the transmission, distribution and supply of electricity.
<b>Socioeconomic, Archeology and Cultural Heritage</b>		

Component	Applicable Legislative Instrument	Description of Legislative Instrument
Health	<ul style="list-style-type: none"> <li>Factories Act (Chapter 441 of the Laws of Zambia) (as amended by Statutory Instrument (S.I.) No. 165 of 1989, No. 75 of 1990, and Act No. 13 of 1994).</li> </ul>	<p>The Factories Act is intended to make further and improved provision for the regulation of the conditions of employment and regards the safety, health and welfare of persons employed therein.</p> <p>Part V (Health: General Provisions) of the Act includes provisions around cleanliness, overcrowding, ventilation, lighting and sanitary requirements for employees and Part VI (Safety: General Provisions) includes provisions for the use of machinery, training, facilities, precautions for the use of explosives, emergency drill training requirements for employees.</p> <p>Moreover, Part IX includes provisions for the welfare of employees, including provisions for drinking water, washing facilities, accommodation and change rooms, first aid and resting facilities. Section 71 of Part X includes requirements for provision of Personal Protective Equipment (PPE) and additional health and safety and welfare measures.</p> <p>The ESIA and associated ESMP has considered and made provision for worker health and safety. Moreover, the ESIA has considered the provisi</p>
Archaeological, Historical and Cultural	<ul style="list-style-type: none"> <li>National Heritage and Conservation Act, 1989</li> </ul>	<p>Part V of this Act (Conservation of Heritage) states that (Section 35) any person who wishes to destroy, demolish, alter or remove from its original site any monument, relic or ancient heritage shall apply for permission to the Commission. Moreover, Section 37 states that any person who desires to excavate any ancient heritage or collect relics shall apply to the Commission for permission.</p> <p>In accordance with Section 42, any person who discovers a potential ancient heritage or relic shall report the find to the commissions and suspend operations in the immediate vicinity to the discovery.</p> <p>The ESMP presents the Cultural and Heritage Management Plan including a Chance Find Procedure, which has</p>
<b>Roads and Land Use Planning</b>		
Roads	<ul style="list-style-type: none"> <li>Roads and Road Traffic Act (Cap 464)</li> </ul>	<p>Part III and IV of this Act include provisions for the registration and licensing of motor vehicles and trailers. Such provisions include ownership details, vehicle/trailer specifications, etc. Moreover, Part V includes the requirements for the licensing of drivers of motor vehicles and Part VII includes the provisions for third party insurance.</p> <p>The Act stipulates that no person shall drive a motor vehicle on a road unless he is the holder of a valid licence issued to him in respect of motor vehicles of the class concerned. The Act provides the minimum age limits associated with driving of vehicles on roads. Part VI includes the provisions for motor vehicle insurance against third party. Part XI includes the provisions for road safety and driving offences (speed limits, reckless driving, driving under the influence, driving behaviors, vehicle emissions, littering etc.).</p>

Component	Applicable Legislative Instrument	Description of Legislative Instrument
		The ESIA and ESMP presents Road Safety Management and Traffic and Transport Management measures. The provisions of this Act have been included in these measures.
Land use planning issues	• Town and Country Planning Act, Cap 283, 1962, as amended.	Provides for the appointment of planning authorities whose main responsibilities are the preparation, approval and revocation of development plans. It also provides for the control of development and subdivision of land.
	• Lands Conversion of Titles Act	Provides for alienation, transfer, disposition and charge of land.
	• Lands and Deeds Registry Act, Cap 174	An Act to provide for the registration of documents; to provide for the issue of Provisional Certificates of Title and Certificates of Title; to provide for the transfer and transmission of
	• Lands Act, Cap 173, 1995	The Act guarantees peoples' right to land while enhancing development. The Act recognizes the holding of land under customary tenure and the Chief's role has been legally recognised, such that land cannot be converted or alienate
	• Land Acquisition Act No. 2 of 1970	The Act sets out regulations for compulsory acquisition of land and property and compensation for such acquisition.
	• Agricultural Lands Act No. 57 of 1960	Provides for the establishment of the Agricultural Lands Board and provides for tenant farming schemes.
	• The Local Government Act, No 13 of 2010	Provides for the establishment of Councils or Districts, the functions of local authorities and the local government system. Some of these functions relate to pollution control and the protection of the environment in general.
<b>Mining Regulations</b>		
Quarries and Borrow Pits	• Mines and Minerals Development Act, 2008	Regulates the law relating to mines and minerals. The Act provides for the granting of or, renewal and termination of mining rights. It also provides for the control of mining activities with regard to environmental protection.
<b>Investments, Energy Regulation, and Development</b>		
Tourism	• Tourism and Hospitality Act, No 23 of 2007	Provides for the promotion of tourism activities both locally and internationally.
Investment and Taxes	• Public – Private Partnership Act, No 14 of 2009	Provides for the encouragement of private sectors partnering with the government in the development and execution of certain nationally important projects
	• Zambia Development Agency Act No 11 of 2006	An Act to foster economic growth and development by promoting trade and investment in Zambia through an efficient, effective and coordinated private sector led economic development Strategy.

Component	Applicable Legislative Instrument	Description of Legislative Instrument
	<ul style="list-style-type: none"> <li>The Zambia Revenue Authority Act (No. 28 of 1993 and all amendments);</li> </ul>	The Acts provides for the taxation system in Zambia for various goods and services.
	<ul style="list-style-type: none"> <li>Investment Act of 1998</li> </ul>	Provides a legal framework for investment in Zambia. The Act relates to the environment by encouraging investment that is not detriment to the environment.
	<ul style="list-style-type: none"> <li>Standards Act, Cap 416</li> </ul>	Provides for the adherence to prescribed standards in all works.
Employment and Compensation	<ul style="list-style-type: none"> <li>Citizens Economic Empowerment Act No 9 of 2006</li> </ul>	<p>Provides for the encouragement and support of citizens of Zambia to get involved in business activities for wealth creation and support of livelihoods.</p> <p>More specifically, Part II of the Act provides measures for economic empowerment including (amongst others) the prohibition of discrimination, skills development, education and training, preferential procurement, regional development, codes of good practice and mechanisms for measuring progress.</p> <p>The ESIA and ESMP provide measures to ensure that the Kariba Dam Rehabilitation Project provides opportunities to <u>Zambian citizens</u>.</p>
	<ul style="list-style-type: none"> <li>The Employment Act Cap 268</li> </ul>	Provide for the employment of persons on contracts of service and for the form of and enforcement of contracts of service, appointment of officers of the Labour Department and for the conferring of powers on such officers and upon medical officers and protection of wages of employees as well as control of employment agencies.
	<ul style="list-style-type: none"> <li>Compensation Act (No 10 of 1999)</li> </ul>	Provides for the establishment and administration of a Fund for the compensation of Workers disabled by accidents to, or diseases contracted by, such Workers in the course of their employment, and for the payment of compensation to dependants of Workers who die as a result of such accidents or diseases.

## **14.4   Zambian Development Policies**

The national development policies for Zambia that are of applicability to this Project are briefly outlined below.

### **14.4.1   Zambia Vision 2030**

Vision 2030 expresses Zambia's aspirations in respect of economic growth, good governance and developing its people. One key basic principle of Vision 2030 is sustainable development. The vision is supported by key goals to ensure that by the year 2030:

- Zambia's rural and urban population has universal access to clean, reliable and affordable energy by the use of alternative, renewable energy sources such as hydropower.
- There is an upgrade of existing and construction of new infrastructure by developing and implementing private- public partnerships with both local and international industries.
- Zambia's biodiversity is protected in numerous national parks and local forest reserves. There is maintenance of a productive environment and well conserved natural resources to facilitate sustainable socio-economic development.
- There is effective utilisation of fresh water resources for a variety of purposes whilst maintaining the quality of the source.

### **14.4.2   Sixth National Development Plan: 2011 – 2015**

The Sixth National Development Plan (SNDP) aims to materialise the aspirations of the Vision 2030. The objectives of the SNDP are: infrastructure development; economic growth and diversification; rural investment; and poverty reduction and the enhancement of human development.

The SNDP contains sector plans that aim to assist in achieving these objectives. The sector plans most relevant to the Project and their objectives are summarised below.

#### *14.4.2.1   Energy Sector Plan*

- To increase electricity generation capacity by at least 1,000MW and build appropriate transmission lines.
- To increase electrification levels in rural areas of Zambia to 15 %, particularly in the Central Province.
- To expand the use of renewable and alternative energy in the country's energy mix.
- To reduce greenhouse gas emissions from the energy sector and strengthen adaptation and resilience to climate change related stresses.

#### *14.4.2.2   Water Sector Plan*

- To achieve sustainable water resource development for social and economic development.
- To develop innovative approaches and appropriate technologies for the effective management of the nation's water resources.

### **14.4.3   Southern Province Regional Development Plan: 2011 - 2015**

The Southern Province Regional Development Plan (as set out within the SNDP) provides for a variety of sector specific strategies and programmes to be achieved in the SNDP period. The objectives of some of these strategies and programmes applicable to the Project include:

- Infrastructure development for the movement of goods and services;
- Connecting rural areas to electricity power supply; and
- Expanding and improving infrastructure for electricity generation, transmission and distribution.

#### 14.4.4 Energy White Paper (February 2010)

A national energy study was implemented by Chubu Electric Power Co., Inc. from November 2008 to February 2010, in order to formulate a countrywide power system development master plan. The study was undertaken cooperatively with the Zambian Ministry of Energy and Water Development.

The objectives of the study were to inform the Power System Development Master Plan until 2030, coordinating generation, transmission, and an interconnection plan for the stabilization of the power supply for Zambia and the southern African community. In addition to this, the study was intended to transfer technical skills.

### 14.5 International Treaties, Conventions and Protocols

Zambia is signatory to a number of international conventions and agreements relating to industry, environmental management and energy. In certain cases these have influenced policy, guidelines and regulations. These conventions must be complied with during the planning, construction and operations phases of the proposed development.

Table 14.2 lists the relevant international conventions and protocols to which Zambia or Zimbabwe is a signatory.

**Table 14.2 Ratification of International Conventions**

<b>Name of Convention</b>	<b>Date of enactment and status</b>
<b>Protocol on Shared Watercourses in the Southern African Development Community (SADC)</b> The overall objective of this Protocol is to foster closer cooperation for judicious, sustainable and co-ordinated management, protection and utilisation of shared watercourses and advance the SADC agenda of regional integration and poverty alleviation.	07/08/2000
<b>The Basel Convention on Trans-boundary Movement of Hazardous Waste</b> The Basel Convention governs the generation, collection, storage, transportation, pre-treatment, treatment, disposal, export, import and trans-boundary movement of hazardous waste.	Zambia: 15/11/1994 (Accession)  Zimbabwe: 01/03/2012 (Accession)
<b>Bamako Convention on the ban on the Import into Africa and the Control of Transboundary Movement and Management of Hazardous Wastes within Africa</b> The Bamako Convention uses a format and language similar to that of the Basel Convention, but is much stronger in prohibiting all imports of hazardous waste. Additionally, it does not make exceptions on certain hazardous wastes (like those for radioactive materials) made by the Basel Convention.	Zambia: 03/08/2005 (signed)  Zimbabwe: 10/07/1992 (ratified)
<b>The Convention Concerning the Protection of the World's Cultural and Natural Heritage</b> The Convention provides for the identification, protection, conservation, presentation and transmission to future generations of the cultural and natural heritage which are of outstanding universal value from the point of view of history,	Zambia: 04/06/1984 (ratified)  Zimbabwe:
<b>Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)</b> CITES is an international agreement between governments to ensure that international trade in specimens of wild animals and plants does not threaten their survival.	<b>Zambia: 24/11/1980 (ratified)</b>  <b>Zimbabwe: 19/05/1981 (ratified)</b>

Name of Convention	Date of enactment and status
<b>International Union for the Conservation of Nature and Natural Resources (IUCN)</b> Encourages the preservation of wildlife, natural environments, and living resources and promotes research in the preservation of threatened species, ecology, sustainable development, and environmental law, education, and training.	Zambia: member
<b>African Convention on the Conservation of Nature and Natural Resources</b> Recognises the need to contribute to the conservation of nature and natural resources at	Zambia: signatory Zimbabwe: signatory
<b>United Nation Convention to Combat Desertification (UNCCD)</b> Recognises the need to control any form of desertification that may arise as a result of anthropogenic activities. The statutes of the UNCCD, encourages the control of desertification as a result of man's activities.	Zambia: 19/09/1996 (ratified) Zimbabwe: 1997 (ratified)
<b>United Nations Framework Convention on Climate Change (UNFCCC)</b> UNFCCC is an international agreement for the control of climate change.	Zambia: 28 May 1993 (ratified) Zimbabwe: 3/10/1992 (ratified)
<b>The Kyoto Protocol to the United Nations Framework Convention on Climate Change (UNFCCC)</b> An international treaty that sets binding obligations on industrialized countries to reduce emissions of greenhouse gases. The UNFCCC is an environmental treaty with the goal of preventing dangerous anthropogenic (i.e., human-induced) interference of the climate system.	Zambia: 07/07/2006 (ratified) Zimbabwe: 30/06/2009 (ratified)
<b>Convention concerning the Abolition of Forced Labour, 1957 (ILO)</b> Cancels certain forms of forced labour still allowed under the Forced Labour Convention of 1930, such as punishment for strikes and as a punishment for holding certain political views.	Zambia: 22/02/1965 (ratified) Zimbabwe:
<b>Convention concerning Discrimination in Respect of Employment and Occupation or Discrimination (Employment and Occupation) Convention (ILO)</b> The convention requires states to enable legislation which prohibits all discrimination and exclusion on any basis including of race or colour, sex, religion, political opinion, national or social origin in employment and repeal legislation that is not based on equal opportunities.	Zambia: 23/10/1979 (ratified) Zimbabwe: 23/06/1999 (ratified)
<b>African Charter on Human and Peoples' Rights</b> Is an international human rights instrument that is intended to promote and protect human rights and basic freedoms in the African continent.	Zambia: 10/01/1984 (ratified) Zimbabwe:
<b>Convention Concerning the Protection of Workers against Occupational Hazards in Working Environments due to Air Pollution and Noise Vibrations</b> Recognises the need to protect workers against hazards in working environments.	Zambia: 19/08/ 1980 (ratified) Zimbabwe: not a member
<b>Agreement on Co-operative Enforcement Operations directed at Illegal Trade in Wild Fauna and Flora</b> The objective of this Agreement is to reduce and ultimately eliminate illegal trade in wild fauna and flora and to establish a permanent Task Force for this purpose.	Zambia: 9/11/1995 (ratified) Zimbabwe: not a member
<b>Agreement on the Action Plan for the Environmentally Sound Management of the Common Zambezi River System</b> Is an agreement aiming to develop regional co-operation on environmentally sound water resources management of the common Zambezi river system and to strengthen regional co-operation for sustainable development.	Zambia: 28/05/1987 (ratified) Zimbabwe: 28/05/1987 (ratified)
<b>Constitution of the International Labour Organisation</b> A constitution detailing conditions and standards for acceptable labour practices.	Zambia: (ratified)
<b>Convention on Biological Diversity</b> The Convention has three main objectives; the conservation of biological diversity, the sustainable use of the components of biological diversity and the fair and equitable sharing of the benefits arising out of the utilization of genetic resources.	Zambia: (ratified) Zimbabwe: (ratified)



<b>Name of Convention</b>	<b>Date of enactment and status</b>
<b>Convention on Wetlands of International Importance especially as Waterfowl Habitat (Ramsar)</b> An international treaty for the conservation and sustainable utilization of wetlands. The treaty recognizes the fundamental ecological functions of wetlands and their economic, cultural, scientific, and recreational value.	Zambia: (ratified) Zimbabwe: (ratified)
<b>International Plant Protection Convention</b> Is an international agreement on plant health which aims to protect cultivated and wild plants by preventing the introduction and spread of pests.	Zambia: (ratified) Zimbabwe: not a member
<b>Statutes of the International Centre for the Study of the Preservation and restoration of Cultural Property</b> Intergovernmental organisation dedicated to the conservation of cultural heritage. It has a worldwide mandate to promote the conservation of all types of cultural heritage, both movable and immovable.	Zambia: not a member Zimbabwe: ratified
<b>Statutes of the International Union for Conservation of Nature and Natural Resources (as amended)</b> Intergovernmental organisation with the objective to influence, encourage and assist societies throughout the world to conserve the integrity and diversity of nature and to ensure that any use of natural resources is equitable and ecologically sustainable.	Zambia: not a member Zimbabwe: ratified

## 14.6 Zimbabwean Institutional Framework

### 14.6.1 Ministry of Environment, Water and Climate

The ministry with overall responsibility for environmental management in Zimbabwe is the Ministry of Environment, Water and Climate, formerly known as the Ministry of Environment and Natural Resource Management, and the Ministry of Mines, Environment and Tourism. As per the Zimbabwean Environmental Management Act (Chapter 20:27) the general functions of the Minister of Environment, Water and Climate are to:

- Regulate the management of the environment and promote, coordinate and monitor the protection of the environment and the control of pollution.
- Regulate the activities of all government agencies and other agencies in terms of their impact on the environment.
- Present to Parliament a report on the state of the environment every five years.
- Monitor the environment, trends in the utilisation of natural resources, and the impact of such utilisation on the environment.
- Coordinate the promotion of public awareness and education on environmental management.
- Ensure that persons and institutions responsible for causing environmental harm meet the cost of remedying that harm.
- Formulate policies for environmental management and facilitate their implementation.
- Recommend to the government which international and regional conventions and treaties on the environment Zimbabwe should become a party to, and secure their incorporation into domestic law.

Environmental management is regulated by three related agencies in the Ministry of Environment, Water and Climate, namely the National Environmental Council (NEC), the Environmental Management Agency (EMA) and the Environmental Management Board (EMB).

#### 14.6.1.1 National Environmental Council (NEC)

The functions of the NEC are to:

- Give advice on policy formulation and provide directions on the implementation of the Zimbabwean EMA.
- Give advice on national goals and objectives for the protection of the environment.
- Promote cooperation among public departments, local authorities, the private sector, non-governmental organisations and other organisations that deal with environmental issues.
- Review and recommend to the Minister guidelines for environmental management plans and environmental action plans.
- Review national environmental policies, plans and strategies.

#### *14.6.1.2 Environmental Management Agency*

The Environmental Management Act of 2002 (Chapter 20:27) provides for the establishment of the Zimbabwean Environmental Management Agency (EMA), formerly known as the Department for Natural Resources. The Agency is responsible for:

- Formulating quality standards on air, water, soil, noise, vibration, radiation and waste management.
- Assisting and participating in any matters pertaining to the management of the environment, such as:
- Developing guidelines for National Plans, environmental management plans and local environmental action plans;
- Regulating and monitoring the collection, disposal, treatment and recycling of waste;
- Monitoring and regulating the discharge or emission of pollutants or hazardous substances into the environment;
- Keeping records in the form of registers of all licences and permits issued under the law;
- Monitoring and regulating the control of invasive alien species;
- Regulating, monitoring, reviewing and approving EIAs;
- Regulating and monitoring the management and utilisation of ecologically fragile ecosystems;
- Making bylaws within the jurisdiction of local authorities;
- Advising government on conventions and treaties that should be incorporated into national law;
- Coordinating the production of a five-year environmental report;
- Developing and implementing incentives for the protection of the environment;
- Carrying out periodic environmental audits of any projects, including projects whose implementation started before a fixed date, to ensure that their implementation complies with the requirements of the Act;
- Regulating and monitoring access by any person to biological and genetic resources; and
- Making recommendations to the Minister on the formulation of any regulations.

The Zimbabwean Environmental Management Agency (EMA) falls under the Ministry of Environment, Water and Climate. The Ministry of Environment, Water and Climate regulates the activities of the EMA and regulates management and protection of the environment and control of pollution. Accordingly, the Ministry of Environment, Water and Climate and the EMA are mandated to ensure that the proposed Project is undertaken in a way that complements Chapter 20:27 of the Zimbabwean Environmental Management Act.

#### *14.6.1.3 Environment Management Board*

The Zimbabwean EMA is controlled and managed by the Environment Management Board (EMB), which is composed of experts from the areas of environmental planning and management, environmental economics, ecology, pollution, waste management, soil science, hazardous substances, water and sanitation. In addition, there is a legal representative and a secretary to the Ministry responsible for the environment.

### **14.6.2 Department of Water**

The Department of Water within the Ministry is responsible for the oversight of the water sector. The functions of the Ministry include:

- Formulate and implement sustainable policies on the development, utilization and management of water resources in cooperation with user communities and institutions.
- Design, construct and maintain medium to large size dams and water supplies to satisfy present and future domestic, industrial and mining water requirements.
- Provide clear/treated water for urban areas in consultation with the Ministry of Local Government, Public Works and Urban Development.
- Design, construct and maintain dams, weirs and boreholes to meet present and future irrigation requirements.
- Take responsibility for the overall/national planning, management, regulation and standardisation of irrigation development and adoption of appropriate technology.
- Design, construct, maintain and manage irrigation schemes and projects.
- Develop sustainable underground water resources in consultation with the Ministry of Rural Housing and Social Amenities.
- Manage the water resources of the country (water in rivers, dams and ground water).
- Set tariffs for raw water, treated water and irrigation water in consultation with other line ministries, consumers and stakeholders.
- Manage and administer the Water Fund through the Zimbabwe National Water Authority.
- Administer the District Development Fund.
- Administer the Rural Capital Development Fund.
- Participate in the development and implementation of SADC and other regional and international organisations' water resources management frameworks.

### **14.6.3 The Zimbabwe National Water Authority (ZINWA)**

ZINWA is a parastatal, which acts as an operator and a regulator. ZINWA is responsible for the following functions at the national level:

- Water planning and implementation;
- Management of public dams;
- Supply of bulk water to the agriculture, industrial and mining sectors;
- Supply of bulk water to urban centres; and
- Coordination and supervision of the seven catchment councils.

ZINWA is responsible for water supply to urban centres, while the municipalities supply water to smaller urban settlements. Rural water supply and sanitation is coordinated by the National Action Committee for Water and Sanitation, which is an inter-ministerial committee chaired by the Minister of Local Government. Separating rural and urban domestic water supply into different ministries was identified by SADC (2003a) as leading to the rural water supply perspectives being isolated from the national water program.

The seven Catchment Councils (Gwayi, Manyame, Save, Runde, Mazowe, Sanyati and Mzingwane) established under the Zimbabwe National Water Authority Act are responsible for all aspects of water management within their responsive catchment areas. The Catchment Managers are employees of ZINWA, and not employed by the Catchment Council, which hinders the devolution of authority. Sub-Catchment Councils are under Catchment Councils and Water User Boards are the lowest tier.

KDRP has the potential to impact on water quality of the Zambezi River downstream of the excavation works associated with rehabilitation of the plunge pool. Accordingly, the

Zimbabwean Department of Water and the Zimbabwean National Water Authority (ZINWA) were considered as key stakeholders in the ESIA process.

#### **14.6.4 Ministry of Energy and Power Development**

The Ministry is the administering authority in regards to energy and power development in Zimbabwe. The Ministry comprises the following departments: Petroleum; Power Development; Policy and Planning; Energy Conservation and Renewable Energy; Finance Human Resources and Administration; Legal Services; and Internal Audit.

##### *14.6.4.1 The Power Development Department*

The Power Development Department is one of the technical departments of the Ministry. Its main role is to facilitate the improvement of availability of electricity to the populace, as well as the attainment of self-sufficiency in electricity generation. The achievement of the strategic goals is centred on the effective administration of the utilities under the Department's purview namely ZESA Holdings (Pvt) Ltd and its subsidiaries: Zimbabwe Power Company (ZPC), Zimbabwe Electricity Transmission and Distribution Company (ZETDC), ZESA Enterprises (ZENT); the Rural Electrification Agency (REA); Zimbabwe Electricity Regulatory Commission (ZERC) and Zambezi River Authority (ZRA) which is a bilateral body owned by Zimbabwe and Zambia.

#### **14.6.5 The Zimbabwe Energy Regulatory Authority (ZERA)**

ZERA was created in September 2011 following the promulgation of the Energy Regulatory Act (Chapter 13:23). Its primary mandate is to regulate the Energy Sector in Zimbabwe. The functions of ZERA include:

- Regulatory and Licensing:
  - To regulate the procurement, production, transportation, transmission, distribution, importation and exportation of energy derived from any energy source.
  - To exercise licensing and regulatory functions in respect of the energy industry.
  - To ensure that prices charged by licensees are fair to consumers in the light of the need for prices to be sufficient to allow licensees to finance their activities and obtain reasonable earnings for their efficient operation.
  - To establish or approve operating codes for safety, security, reliability, quality standards and any other sector related codes and standards for the energy industry or any sector thereof.
  - To maintain and promote effective competition within the energy industry.
- Research and development:
  - To promote and encourage the expansion of the energy industry and the advancement of technology relating thereto.
  - To promote, identify and encourage the employment and development of sources of renewable energy.
  - To undertake such other thing which it considers is necessary or convenient for the better carrying out of or giving effect to the functions of the Authority.
  - To increase access and security of supply:
  - To promote the procurement, production, transportation, transmission and distribution of energy in accordance with public demand and recognised international standards.
  - To ensure the maximisation of access to energy by all consumers that is affordable and environmentally sustainable.
  - To create, promote and preserve an efficient energy industry market for the provision of sufficient energy for domestic and industrial use.

- To promote coordination and integration in the importation, exportation and pooling of energy from any energy source in the SADC and COMESA region.
- Energy efficiency and environmental protection:
  - To advise and educate consumers and licensees regarding the efficient use of energy.
  - To assess, promote studies of and advise the Minister and licensees on the environmental impact of energy projects before licensing.
- Key stakeholder advisory role:
  - To advise the Minister on all matters relating to the energy industry.
  - To establish appropriate consumer rights and obligations regarding the provision of energy services.
  - To arbitrate and mediate disputes among and between licensees and consumers.
  - To represent Zimbabwe internationally in matters relating to the energy industry.

KDRP directly concerns the maintenance of power generation facilities, and therefore the Ministry of Energy and Power Development and associated Power Development Department and Zimbabwe Energy Regulatory Authority were considered as key stakeholders in the ESIA process.

#### **14.6.6 National Museums and Monuments of Zimbabwe (NMMZ)**

NMMZ is Zimbabwe's premier heritage organization established under the National Museums and Monuments of Rhodesia Act, 1972 which is now called the National Museums and Monuments Act (Chapter 25:11). NMMZ is a Parastatal, funded through grant by Central Government and falling under the Ministry of Home Affairs. The Act established a Board of Trustees to provide for the establishment and administration of museums' and to provide for the preservation of ancient, historical and natural monuments, relics and other objects of historical or scientific value or interest.

Although it is not anticipated that there are any cultural heritage sites located in the Project Area, there may be sub-surface archaeological resources that could fall within the footprints of proposed ground disturbing activities. Accordingly, the National Museum and Monuments of Zimbabwe (NMMZ) was considered a key stakeholder in the ESIA process.

#### **14.6.7 Other Line Ministries:**

A number of other Ministries may have interests in KDRP, and were considered as key stakeholders in the ESIA process:

- Ministry of Lands and Rural Resettlement
- Ministry of Industry and Commerce;
- Ministry of Health and Child Care;
- Ministry of Local Government, Public Works and National Housing;
- Ministry of Lands and Rural Settlement;
- Ministry of Agriculture, Mechanisation & Irrigation Development; and
- Ministry of Public Service, Labour and Social Welfare.

### **14.7 Zimbabwean Environmental and Social Laws and Regulations**

Table 14.3 presents a summary of the Zimbabwean national legislation that is considered applicable to KDRP.

#### **14.7.1 Constitution of Zimbabwe Amendment Act (No. 20 of 2013), Section 73 (Environmental Rights)**

According to Section 73 of the Constitution of Zimbabwe, every person has a right to an environment that is not harmful to their health or well-being and to have the environment protected for the benefit of present and future generations, through reasonable legislative and other measures. To this end, the State must take reasonable legislative and other measures, within the limits of the resources available to it, to achieve the progressive realisation of the rights set out in this section.

1. Every person has the right
  - a) To an environment that is not harmful to their health or well-being; and
  - b) To have the environment protected for the benefit of present and future generations, through reasonable legislative and other measures that—
    - i. Prevent pollution and ecological degradation;
    - ii. Promote conservation; and
    - iii. Secure ecologically sustainable development and use of natural resources while promoting economic and social development.
2. The State must take reasonable legislative and other measures, within the limits of the resources available to it, to achieve the progressive realisation of the rights set out in this section.

#### **14.7.2 The Environmental Management Act (the Act) (Chapter 20:27), No. 13 of 2002**

The Zimbabwean Environmental Management Act (the Act) (Chapter 20:27), No. 13 of 2002, was enacted in 2002 and amended on 17 May 2011, under the General Laws Amendment Act, 2011 (No. 5 of 2011) Government Gazette number Vol LXXXIX, No 23. It aims to ‘provide for the sustainable management of natural resources and protection of the environment; [and] the prevention of pollution and environmental degradation’.

The Act also provides for the establishment of EMA and an Environmental Fund. The Act repeals the following former Acts:

- Natural Resources Act (Chapter 20:13);
- Atmospheric Pollution Prevention Act (Chapter 20:03);
- Hazardous Substances and Articles Act (Chapter 15:05); and
- Noxious Weeds Act (Chapter 19:07).

The Act is a general legislative framework and does not cover every environmental aspect. It is a framework law which will be complemented by other laws and policies that are not in conflict with it. However, where there are conflicts, this Act will take precedence. The law will be supported by the setting up of the proposed institutions and the promulgation of Regulations by the Minister. Nevertheless, the Act provides the general environmental principles that should be followed in environmental management.

The provisions of the Zimbabwean EMA that relate to EIAs in particular are set out in Section 97 of the Act and summarised below:

- A person who proposes to embark on any of the projects listed in the First Schedule is expected to submit an EIA report to the Director General.
- The developer can only embark on the project if s/he has obtained a certificate from the Director-General.
- The developer is expected to submit a prospectus to the Director General with information on the assessment and the project.
- It is an offence for any person to knowingly implement a project without a certificate showing that an EIA has been carried out and approved.

Some of the sectors in which EIAs should be carried out include: dams and man-made lakes; drainage and irrigation; housing developments; industry; mining and quarrying; petroleum production, storage and distribution; power generation and transmission; tourist resorts and recreational developments; waste treatment and disposal; water supply; conversion of forest land into other use; and conversion of natural woodland to other use within the catchment area of reservoirs used for water supply, irrigation or hydropower generation or in areas adjacent to parks and wildlife estates.

#### *14.7.2.1 General Management Requirements*

This Act aims to provide for the sustainable management of natural resources and protection of the environment; [and] the prevention of pollution and environmental degradation. Section 4 the Act affords all citizens of Zimbabwe the right to live in a clean environment that is not harmful to their health; access to environmental information; the right to protect the environment for the benefit of present and future generations; and the right to participate in the implementation of legislation and policies that prevent pollution and environmental degradation and promote the sustainable management and use of natural resources, as well as justifiable economic and social development.

The Act also includes provisions for aspects including (amongst others) water, air, waste, hazardous wastes, noise, toxic substances, wetlands and control of invasive plant species. These provisions will be discussed in the relevant sections below.

#### *14.7.2.2 Provisions for Water*

Section 57 of the Act mentions that any person, who discharges or applies any poison or toxic, noxious or obstructing matter, radioactive waste or other pollutants or permits any person to dump or discharge such matter into the aquatic environment in contravention of water pollution control standards shall be guilty of an offence.

#### *14.7.2.3 Provisions for Terrestrial Ecology*

Part XIII of the Act includes provisions for the control of alien plant species. Essentially, every person has the responsibility to clear or cause to be cleared any invasive alien species growing or occurring on the land in respect of which he is responsible.

#### *14.7.2.4 Provisions for Air Quality*

Section 63 of the Act mentions that ambient air quality standards need to be established.

#### *14.7.2.5 Provisions for Noise*

Sections 79 to 81 (in Part IX of the Act) provide requirements around noise management. More specifically, the Act mentions the need for standards to be established for the emissions of noise and vibration pollution. Section 80 mentions that any person who emits noise in excess of the noise emission standards prescribed in terms of section seventy-nine shall be guilty of an offence.

No reference to noise standards could be sourced and it appears as if these do not yet exist.

#### *14.7.2.6 Provisions for Waste and Hazardous Wastes*

Section 69 of Part IX of the Act mentions that no person shall discharge or dispose of any wastes, whether generated within or outside Zimbabwe, in such a manner as to cause

pollution to the environment or ill health to any person. Moreover, Section 69 includes provisions for the transport and disposal of waste.

Section 73 of the Act prohibits the discharge of hazardous substances, chemicals and materials or oil into the environment.

#### **14.7.3 Environmental Management (Environmental Impact Assessments and Ecosystems Protection) Regulations, SI No. 7 of 2007**

The Environmental Management (Environmental Impact Assessments and Ecosystems Protection) Regulations (EIA Regulations) deal with the regulation of the EIA process and the protection of ecosystems. Part 11 of the Act stipulates that no industrial project shall be implemented without an EIA having been done. These Regulations provide the methodology for undertaking the EIA. The developer has to submit a prospectus to the EMA (see section 16.4.1), which will issue a licence if satisfied by the contents of the prospectus. The prospectus has to contain details of the environmental impacts of the project and the measures to be taken to contain or mitigate such impacts. In preparing an EIA, a developer is obliged to consult widely with all stakeholders. The EMA will not issue a licence if it is not satisfied that the developer consulted with all stakeholders in the preparation of the prospectus. It should also be noted that projects that began before the Act was promulgated are subject to periodic environmental audits by the EMA.

Section 10 (4 to 7) of the EIA Regulations state the following:

- Before any EIA report is furnished to the Director-General, the developer shall carry out wide consultations with stakeholders;
- During review of the prospectus and EIA report, the Director-General shall verify whether full stakeholder participation was undertaken when the EIA report was prepared;
- Expenses associated with the stakeholder consultation process should be borne by the developer;
- The Director-General may advertise in the print and electronic media when a prospectus or EIA report is being reviewed.

The Regulations neither provide specifically for the manner in which the consultation of stakeholders should be carried out nor do they stipulate the stakeholders. There is also no measure to ensure that the concerns of the stakeholders are incorporated in the prospectus.

#### **14.7.4 Environmental Impact Assessment Guidelines (1997)**

In 1997, the then Ministry of Mines, Environment and Tourism published the Environmental Impact Assessment Policy. The goal of the policy is to encourage environmentally responsible investment and development in Zimbabwe. The policy views the EIA process as key to achieving this goal.

To support the 1997 Environmental Impact Assessment Policy, the Ministry of published EIA Guidelines to facilitate the implementation of the EIA process. These guidelines are presented as 10 Volumes.

Volume 1 provides guidance on the EIA Policy and General Guidelines under the following topics: administering the EIA Policy; preparing Terms of Reference (ToR's); preparing EIA Reports; consulting the Public; environmental management; and evaluating the adequacy of EIA Reports. In terms of consulting the public, Section 5 provides guidelines for the stakeholder consultation programme.

Volumes 2 to 10 provide guidance on sector-specific EIAs and cover the following sectors: Mining and quarrying; Forestry; Agriculture; Transport; Energy; Water; Urban infrastructure;



and Tourism. For each of these sectors, the guidelines provide examples of major activities that are likely to be undertaken for projects in that sector, the type of environmental impacts, possible measures for managing such impacts, sample Terms of Reference, and sources of information for use in an EIA study. In addition, the guidelines are supported by various appendices which provide guidance on preparing ToR's, EIA methods, sources of information, etc. The guidelines are used by Government authorities, developers and EIA practitioners as they provide valuable assistance with carrying out EIAs, guidance on the review of EIAs and the implementation of the EIA recommendations. In addition, the guidelines contribute to improving the quality of sector-specific EIAs.

**Table 14.3 Summary of Relevant Zimbabwean Environmental and Social Legislation**

Component	Applicable Legislative Instrument	Description of Legislative Instrument
<b>Environmental</b>		
Water Resources	<ul style="list-style-type: none"> <li>Water Act, 2003 (Chapter 20:24)</li> </ul>	<p>Section 67 of the Act states that water resource management needs to be consistent with environmental approaches and due consideration should be given to the protection, conservation and sustenance of the environment; and the right of access by members of the public to places of leisure or natural beauty related to water or water bodies.</p> <p>According to Section 69, a person who intends to discharge or dispose into a water course shall apply for a permit and pay such charges, for the use of the water, as may be prescribed. It is the understanding of this process that a water permit will not be necessary for this Project.</p> <p>Part IX includes provisions on the safety of dams. Namely Section 109 and 110 include requirements around procedures for emergency for any sudden or unprecedented flood or alarming or unusual circumstance or occurrence, whether anticipated or existing, which may adversely affect the dam.</p> <p>Such management measures have been considered in ESIA and associated ESMP, particularly for surface water</p>
	<ul style="list-style-type: none"> <li>Zimbabwe National Water Authority Act, 1998 (Chapter 20:25)</li> </ul>	<p>Establishes the Zimbabwe National Water Authority and to provide for its functions. Provides for the appointment and functions of a board of the Authority and for the raising of charges for the provision of water and other services by the Authority. In addition, the Act provides for the funds of the Authority and the imposition and collection of a water levy. The Act also repealed the Regional Water Authority Act.</p>
Wildlife and Natural Resources	<ul style="list-style-type: none"> <li>Forest Act, 1948 (Chapter 19:05)</li> </ul>	<p>Provides for demarcating and conserving forests and nature reserves.</p> <p>More specifically, Part VI (conservation of timber resources) governs the removal of indigenous trees. Prior to the removal of indigenous trees, notice of intention must be provided to the appropriate Commission.</p> <p>Management/mitigation commitments for the protection of terrestrial flora are included in this ESIA and associated ESMP.</p>
	<ul style="list-style-type: none"> <li>Parks and Wildlife Conservation Act, 1975 (Chapter 20:14)</li> </ul>	<p>Provides for the conservation and control of wildlife, fish and plants; and designates specially protected animals and indigenous plants.</p> <p>More specifically, Part IX (specially protected animals) (Section 45) and Part XII includes provisions around the hunting, removal of animals and animal products.</p> <p>Part X and Part XI of the Act include provisions for protected plants specified in the Seventh Schedule (insertion by Act 19 of 2001 with effect from the 1st June, 2002) and provisions for the control of picking of indigenous plants.</p>

Component	Applicable Legislative Instrument	Description of Legislative Instrument
		The management of terrestrial ecology and revegetation and rehabilitation for the Kariba Dam Rehabilitation Project has considered the provisions of this Act.
	<ul style="list-style-type: none"> <li>SI 61 of 2009 Environmental Management (Access to Genetic Resources and Indigenous Genetic Resource Best Knowledge)</li> </ul>	The SI requires stakeholders (including communities) to be consulted where access to genetic resources is given to external parties, promoting community participation in the management of genetic resources. Consultation, which is a key aspect of good governance of natural resources, is strengthened by the requirement of Prior Informed Consent.
	<ul style="list-style-type: none"> <li>GN 380 of 2013 (Protection of Wetlands) per Section 113 of the Environmental Management Act</li> </ul>	<p>This Section of the Act includes provisions for the protection of wetlands in Zimbabwe. Such controls include the preservation of beds, banks; controlling stormwater; restrictions of removing clays and deposits from wetlands; reducing pollution of any kind to wetlands and restoration of wetlands.</p> <p>The management of surface water quality, aquatic environments (including aquatic vegetation) and terrestrial ecology</p>
	<ul style="list-style-type: none"> <li>Communal Land and Forest Produce Act, 1988 (Chapter 19:04)</li> </ul>	Controls the use of wood resources within communal lands. Such resources are only for the domestic use of the residents.
Air	<ul style="list-style-type: none"> <li>Air Pollution Control Regulations SI 72, 2009.</li> </ul>	<p>Provides for prevention, control and abatement of air pollution to ensure clean and healthy ambient air.</p> <p>The provisions of these regulations have been considered in the Air Quality and Dust Management Plan (refer to</p>
	<ul style="list-style-type: none"> <li>Draft Air Quality and Emission Standards (draft number EN 005 - D977/2)</li> </ul>	These have not been enacted; however, Section 4 of these draft standards provides ambient air quality in Zimbabwe. Moreover, Section 7 provides limit values for vehicle emissions.
Waste	<ul style="list-style-type: none"> <li>Effluent and Solid Waste Disposal Regulations SI 6, 2007.</li> </ul>	<p>This regulation concerns the disposal of effluent and solid wastes. Persons are prohibited from disposing waste into public water courses without initially acquiring permission. Moreover, a generator of waste (other than domestic households) is now required to produce a Waste Management Plan. The plan should deal with sound environment management of wastes.</p> <p>Although waste related impacts have not been included in the ESIA, the ESMP presents a Waste Management Plan. Moreover, the ESMP presents a Rehabilitation and Revegetation Plan. These plans have considered the provisions of</p>

Component	Applicable Legislative Instrument	Description of Legislative Instrument
	<ul style="list-style-type: none"> <li>Hazardous Waste Management Regulations SI 10, 2007</li> </ul>	<p>Provides for the licensing for generation, storage, use, recycling, treatment, transportation or disposal of hazardous waste. Generators of hazardous waste are also required to prepare waste management plans and targets. Regulates waste collection and management by local authorities. In addition, regulates the importation and exportation of hazardous waste and waste oils.</p> <p>According to this regulation, generators of hazardous waste are required to prepare waste management plans.</p> <p>The ESMP includes a Waste Management Plan, which includes commitments around the management of hazardous waste.</p>
	<ul style="list-style-type: none"> <li>Environmental Management (Plastic Packaging and Plastic Bottles) SI 98 of 2010</li> </ul>	<p>The Plastic Bottles and Plastic Packaging Regulations encourage a reduction in the use of certain types of plastics. According to Article 3(1), it is prohibited to produce, import or distribute plastic packaging with a thickness of less than 30 microns.</p> <p>The Waste Management Plan (refer to ESMP in Part III) encourages minimization of waste generation and</p>
Explosives	<ul style="list-style-type: none"> <li>Explosives Act (Chapter 10:08)</li> </ul>	<p>Part IV of this Act includes provisions for the storage of explosives. No person shall keep explosives in or on any premises unless the premises are licensed. Moreover, Part V of the Act governs the use of explosives. Part VI provides restrictions and provisions for the transport of explosives.</p> <p>The ESMP includes provisions for blasting management. The development of these provisions has taken this Act into consideration. Moreover, detailed design around blasting management for the Kariba Dam Rehabilitation Project has</p>
<b>Energy</b>		
Energy	<ul style="list-style-type: none"> <li>Electricity Act (Ch 13:19)</li> </ul>	<p>Provides for the establishment of the Zimbabwe Electricity Regulatory Commission and provides for its functions and management. Also provides for the licensing and regulation of the generation, transmission, distribution and supply of electricity.</p>
	<ul style="list-style-type: none"> <li>Energy Regulatory Act (Chapter 13:23)</li> </ul>	<p>Provides for the creation of the Zimbabwe Energy Regulatory Authority (ZERA) and regulates the energy sector and other sections not provided for by the energy laws, the Electricity Act (13:19) and Petroleum Act (13:22). The Energy Regulatory Act repealed some sections especially those related to the formation of the regulatory institutions in the Electricity Act (Chapter 13:19) and Petroleum Act (Chapter 13:22). The mandate of ZERA is to regulate the Energy Sector</p>
<b>Socioeconomic, Archeology and Cultural Heritage</b>		

Component	Applicable Legislative Instrument	Description of Legislative Instrument
Health	<ul style="list-style-type: none"> <li>Public Health Act (Ch 15:09)</li> </ul>	Provides for the establishment of the Zimbabwean public health system.
	<ul style="list-style-type: none"> <li>Regulation 12 of 2007 Environmental Management Act (Hazardous Substances, Pesticides and other Toxic Substances)</li> </ul>	<p>The Regulations prescribe conditions that employers have to observe in the handling of hazardous substances at the workplace, conditions for transporting hazardous substances, and procedures to be followed when there is an accidental spillage of hazardous substances.</p> <p>The Agency is empowered to issue spot fines to any person who violates the law. In addition, any person whose substances affect the environment is liable to pay for the cost of restoring the environment (i.e. the polluter pays principle). The offender is also liable to pay compensation for any damage that the offence caused to any person.</p>
	<ul style="list-style-type: none"> <li>Environmental Management (Hazardous Waste Management) Regulation 10 of 2007</li> </ul>	The Environmental Management Act (Chapter 20:27) Section 140 read with Statutory Instrument 10 of 2007 (see above), regulates the handling of hazardous waste. Under the regulations, the collection, storage, treatment and transportation is strictly prohibited unless under a license issued by the Environmental Management Agency. The regulations also stipulate that no person shall generate, store, sell, transport, use, recycle, treat, discharge or dispose of hazardous waste to the environment without seeking a permit or license from the Agency.
Immigration	<ul style="list-style-type: none"> <li>Immigration Act (Chapter 4:02)</li> </ul>	<p>Part III of this Act includes provisions for the entry of persons to Zimbabwe (viz. compliance with the directions of immigration officers, travel document requirements, entry refusals, etc.). Part V of the Act includes the provisions for departure of Zimbabwe.</p> <p>These provisions have been included in the Worker Health and Safety Plan included in the ESMP (refer to Part III of the ESIA).</p>
Protected Places and Areas	<ul style="list-style-type: none"> <li>Protected Place and Areas (Chapter 11:12)</li> </ul>	This Act includes the provisions for the control of entry of persons into certain places, for the protection of the premises. The control of access to work areas associated with the Kariba Dam Rehabilitation Project will be undertaken in accordance with the provisions/requirements in this Act.
Archaeological, Historical and Cultural	<ul style="list-style-type: none"> <li>National Museums and Monuments Act (Chapter 25:11)</li> </ul>	<p>Makes provision for the preservation of ancient, historical and natural monuments, relics and other objects of historical or scientific value or interest. Section 21 of the Act requires that the appropriate board be notified of any ancient monument or relic. Moreover, Section 24 states that no person may excavate and ancient monument or national monument without obtaining written permission by the appropriate Board.</p> <p>The Cultural and Heritage Management Plan (refer to the ESMP in Part III of this ESIA) includes a Chance Find Procedure, which has considered the provisions of this Act</p>
Land use planning issues	<ul style="list-style-type: none"> <li>Communal Land Act (Chapter 20:04)</li> </ul>	Provides for the classification of land in Zimbabwe as Communal Land and for the alteration of such classification; to alter and regulate the occupation and use of Communal Land; and to provide for matters incidental to or connected with the foregoing.
	<ul style="list-style-type: none"> <li>Rural District Councils Act, 1989 (Chapter 29:13)</li> </ul>	Provides for the establishment of Rural District Councils responsible for initiating and regulating development in rural areas.

Component	Applicable Legislative Instrument	Description of Legislative Instrument
	<ul style="list-style-type: none"> <li>Regional Town and Country Planning Act [Chapter 29:12]</li> </ul>	Regulates regional planning and provides for the functions of Regional Planning Councils. The Act confers the land-use planning function on urban local authorities and regulates the development of master and local plans; subdivisions, consolidation, acquisition and disposal of land.
	<ul style="list-style-type: none"> <li>Traditional Leaders Act (Chapter 29:17)</li> </ul>	An Act to provide for the appointment of village heads, headmen and chiefs; to provide for the establishment of a Council of Chiefs and village, ward and provincial assemblies and to define their functions; to provide for the issue of village registration certificates and settlement permits. The Act also provides for the repeal of the Chiefs and Headmen Act (Chapter 29:01) and amends: the Criminal Procedure and Evidence Act (Chapter 9:07); the Communal Land Act (Chapter 20:04); and the Rural District Councils Act (Chapter 29:13).
	<ul style="list-style-type: none"> <li>Rural Land Act (Chapter 20:18)</li> </ul>	An Act to provide for the acquisition of State land and the disposal of State land; to provide for the control of the subdivision and lease of land for farming or other purposes; to provide for limiting of the number of pieces of land that may be owned by any person and the sizes of such land, and for prohibiting or restricting the rights of non-residents to own, lease or occupy land in Zimbabwe, and to provide for other matters incidental to and connected with the foregoing.
	<ul style="list-style-type: none"> <li>Rural Land Occupiers (Chapter 20:26) (Protection from Eviction) Act 2002</li> </ul>	Provides for the protection of certain occupiers of rural land from eviction, and regulates matters connected therewith or incidental thereto.
Roads and traffic	<ul style="list-style-type: none"> <li>Roads Act (Chapter 13:18)</li> </ul>	Provides for the regulation of the standards applicable in the planning, design, construction, maintenance and rehabilitation of roads with due regard to safety and environmental considerations. Provides for road authorities and their functions and for the regulation of the erection of structures or the carrying out of works near certain roads, the entry upon roads from certain land and the acquisition of land and materials for road works.
	<ul style="list-style-type: none"> <li>Road Motor Transportation Act, 1997</li> </ul>	<p>The proposed Kariba Dam Rehabilitation Project will require the transport of materials and machinery into the Project Area. Part III (Section 7 to 16) of the Road Motor Transportation Act details the requirements for goods vehicles on all roads and that these vehicles/drivers need to hold an operator's license. The operator's license application needs to be assigned for a specific route. Part IV of the Act provides the requirements for the operation of foreign vehicles on Zimbabwean roads. Requirements include the provision of a foreign license. Part V includes the provisions for the inspection of vehicles and the issuance of a certificate of fitness for vehicles.</p> <p>The ESMP (refer to Part III of this ESIA) includes a Road Safety Management Plan and Traffic and Transport Management Plan. The provisions of this Act have been included in these.</p>

Component	Applicable Legislative Instrument	Description of Legislative Instrument
	<ul style="list-style-type: none"> <li>Road Traffic Act (Chapter 13:11)</li> </ul>	<p>Part II of this Act includes the provisions for the licensing of drivers of motor vehicles and the requirements for licenses (age limits, medical examinations, etc.). The Act stipulates that no person shall drive a motor vehicle on a road unless he is the holder of a valid licence issued to him in respect of motor vehicles of the class concerned, and complies with the conditions, if any, subject to which the licence was issued. Section 7 of the Act provides the minimum and maximum age limits associated with driving of vehicles on roads.</p> <p>Part III makes provision for the issuing of international driving permits. Section 17 states that any person who is an ordinarily resident in Zimbabwe; and the holder of a driver's licence or foreign drivers licence and who wish to drive a motor vehicle outside Zimbabwe, he must apply for an international driving permit.</p> <p>Part IV through to V (and VA) includes the provisions for motor vehicle insurance against third party. Part VI includes the provisions of traffic signs and police directions and the requirements around conformance.</p> <p>The ESMP (refer to Part III of this ESIA) includes Road Safety Management Plan and Traffic and Transport Management Plan. The provisions of this Act have been included in these.</p>
<b>Mining Regulations</b>		
Quarries and Borrow Pits	<ul style="list-style-type: none"> <li>Environmental Management Act 2011(Section 23)</li> </ul>	Quarries and borrow pits are regulated in terms of the first schedule of the Environmental Management Act. The Project will ensure that materials are sourced from licensed sites.
	<ul style="list-style-type: none"> <li>Statutory Instrument 3 of 2011</li> </ul>	Regulates borrow pits and sites used for the extraction of sand and rock and associated transportation.
<b>Investments, Energy Regulation, and Development</b>		
Tourism	<ul style="list-style-type: none"> <li>Tourism Act (Chapter 14:20)</li> </ul>	An Act to establish a Zimbabwe Tourism Authority and to provide for its functions; the appointment and functions of a board of the Authority; to establish a Zimbabwe Tourism Fund; the appointment of a Chief Executive of the Authority, licensing officers and other officers; the designation, registration and grading of tourist facilities and for the licensing of persons who provide services connected with tourism; the imposition and collection of levies in respect of designated tourist facilities; and matters connected with or incidental to the foregoing.
Employment and Compensation	<ul style="list-style-type: none"> <li>Labour Act (Chapter 28:01) as amended by Labour Act [Chapter 28:01] amended 2006 and the Labour Amendment Act, 2005 (Act 7/2005)</li> </ul>	<p>An Act to declare and define the fundamental rights of employees. Part II (Sections 4 to 7) provides the fundamental rights of employees, including entitlement to be a member of a trade union, protection against discrimination, the right to fair labour standards and the right to a democratic workplace.</p> <p>Part III of the Act provides provisions safeguarding employees to unfair labour practices and Part IV provides the general conditions of employment (viz. dismissal, retrenchment, wages, sick leave, death, maternity leave etc.).</p> <p>The ESIA and associated ESMP for the Kariba Dam Rehabilitation Project makes provision for the rights of employees.</p>

Component	Applicable Legislative Instrument	Description of Legislative Instrument
Public Participation	<ul style="list-style-type: none"> <li>General Laws Amendment No. 5 of 2011 (Section 12, paragraph H)</li> </ul>	Paragraph h stipulates that results from the public participation process needs to be disclosed.



## **14.8 Zimbabwean Development Policies**

The national development policies for Zimbabwe that are potentially applicable to the Project are briefly outlined below.

### **14.8.1 Zimbabwe Agenda for Sustainable Socio-economic Transformation**

In pursuit of a new trajectory of accelerated economic growth and wealth creation, Government has formulated a new plan known as the Zimbabwe Agenda for Sustainable Socio-Economic Transformation (Zim Asset): October 2013-December 2018.

Zim Asset was crafted to achieve sustainable development and social equity anchored on indigenisation, empowerment and employment creation which will be largely propelled by the judicious exploitation of the country's abundant human and natural resources.

This Results Based Agenda is built around four strategic clusters that will enable Zimbabwe to achieve economic growth and reposition the country as one of the strongest economies in the region and Africa. The four strategic clusters identified are: Food Security and Nutrition; Social Services and Poverty Eradication; Infrastructure and Utilities; and Value Addition and Beneficiation.

### **14.8.2 Zimbabwean Industrial Development Policy (2012-2016)**

The policy's vision is to transform Zimbabwe from a producer of primary goods into a producer of processed value-added goods for both the domestic and export market. The policy mission statement is to create a vibrant, self-sustaining and competitive economy through promotion of viable industrial and commercial sectors as well as domestic and international trade.

The objectives of the policy include:

- The overall objective is to restore the manufacturing sector's contribution to the GDP of Zimbabwe from the current 15% to 30% and its contribution to exports from 26% to 50% by 2015;
- An average real GDP growth of 15% is targeted under this Policy Framework of 2011-2015;
- To create additional employment in the manufacturing sector on an incremental basis as compared to the previous planning period of 2004 to 2010;
- To increase capacity utilisation from the current levels of around 43% to 100% by the end of the planning period;
- To re-equip and replace obsolete machinery and new technologies for import substitution and enhanced value addition;
- To increase the manufactured exports to the SADC and COMESA regions and the rest of the world; and
- To promote utilisation of available local raw materials in the production of goods.

### **14.8.3 Zimbabwe's National Energy Policy**

The National Energy Policy (NEP) seeks to promote the optimal supply and utilisation of energy, for socio-economic development in a safe, sustainable and environmentally friendly manner.

The NEP is intended to fulfil Government's objective of ensuring that the energy sector's potential to drive economic growth and reduce poverty is fully harnessed. The policy therefore provides a guide to decision-makers, policy-makers and development managers in

Government, the private sector, Non-Governmental Organisations and civil society, on Government's intended actions in the energy sector.

The policy recognises that regional cooperation is essential for the development of large-scale hydropower resources and that small-scale hydropower projects may not make a significant impact on national requirements but they help to develop skills and to speed up access for remote communities that are not likely to be connected to the national grid in the foreseeable future.

The policy also makes specific reference to the Zimbabwe Energy Regulatory Authority (ZERA) and states that the Authority is expected to create an enabling environment and establish fair play in the energy sector through licensing regulations, product and service standards and investment promotion.

## **15     Appendix B – Consultation Materials and evidence of meetings.**

# ANNEX C

ESIA - ESMP - Kariba Dam Rehabilitation Project

Annex B

## Consultation Materials

These material is from the consultation meetings performed in 2014-2015

**Annex B:1**

## Background Information Documents (BIDs) English

# BACKGROUND INFORMATION DOCUMENT

## Environmental and Social Impact Assessment (ESIA) for the Proposed Rehabilitation of Kariba Dam Support Infrastructure

### PURPOSE OF THIS DOCUMENT

The purpose of this Background Information Document (BID) is to provide Interested and Affected Parties (IAPs) with information about the Environmental and Social Impact Assessment (ESIA) process for the proposed rehabilitation of support infrastructure to the Kariba Dam on the Zambezi River. The BID will also inform IAPs how to participate in the ESIA process and encourage them to attend project meetings and respond to project documents. The study area of the ESIA is indicated in the *Figure 1.1* below with a yellow line.

### PROJECT BACKGROUND

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

The ZRA is proposing the rehabilitation of some of the support infrastructure of the Kariba Dam, namely the plunge pool and spillway. The ZRA will require an ESIA to be undertaken in accordance with the environmental regulations of Zambia and Zimbabwe before they will be granted permission to continue with the works bearing in mind the findings of the ESIA. ZRA appointed Environmental Resources Management (ERM) as the environmental consultant to conduct the ESIA.

### WHAT IS AN ESIA?

An ESIA is a study to identify and assess the possible environmental and social impacts associated with a proposed development – in this case the rehabilitation of Kariba Dam infrastructure. In order to commence with the Project, an ESIA must be done. This ESIA must be done in accordance with the relevant in-country legislation as well as international good practice guidelines such as the IFC's Performance Standards.

An ESIA process typically aims to answer five key questions regarding the proposed development. These questions are illustrated in *Figure 1.2* below.

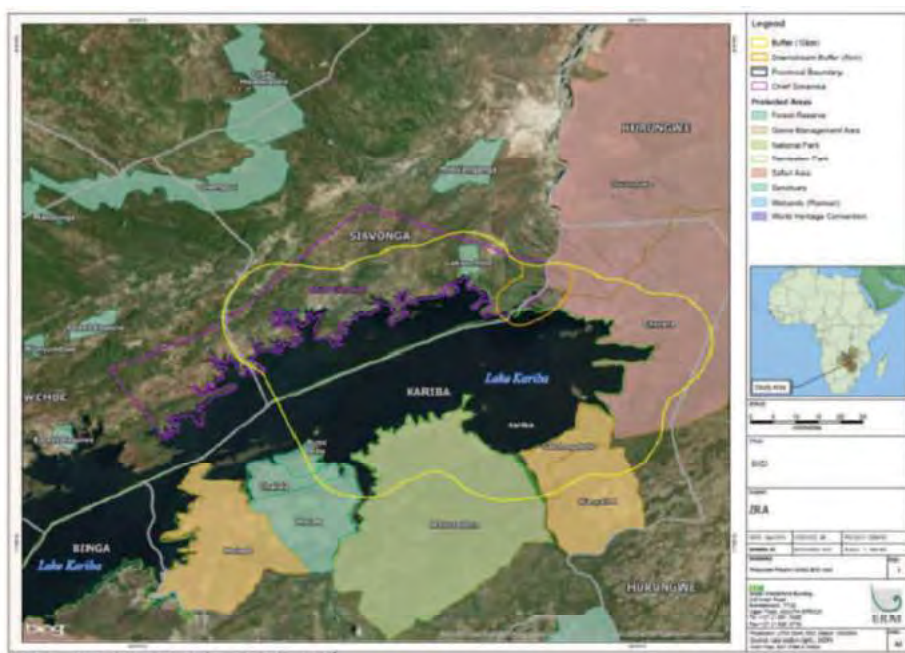


Figure 1.1 Project Location

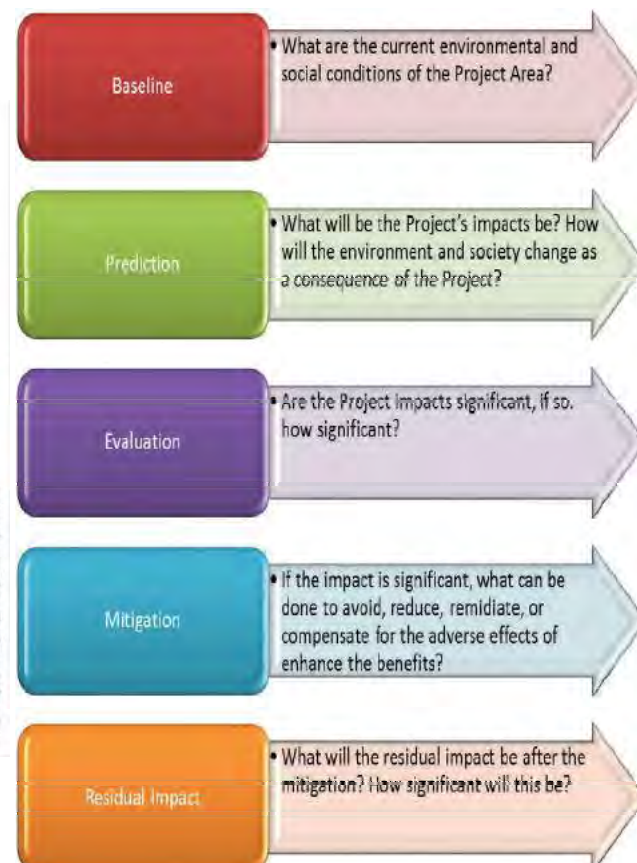


Figure 1: 2 ESIA Questions

# THE PROPOSED PROJECT:

## PLUNGE POOL

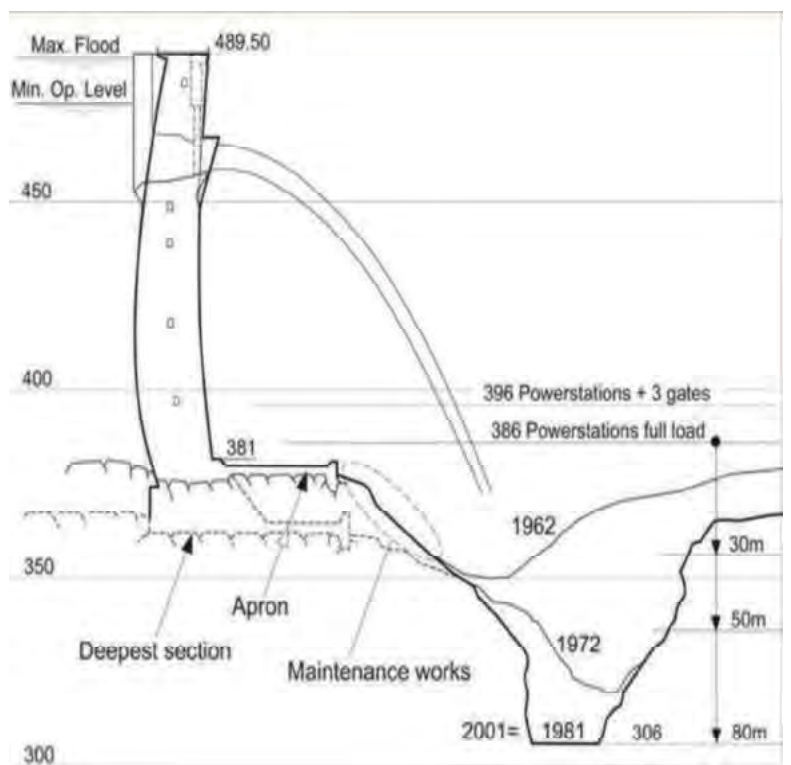
### The Plunge Pool Rehabilitation

Over the years, due to sustained heavy spillage episodes, the river bedrock in the plunge pool (situated immediately downstream of the dam wall) was scoured down to 80m below the normal water level. Therefore there is a major concern over the natural development of the plunge pool in future, especially in case of exceptional floods and of intense spillages as is illustrated in the photograph in *Figure 1.3 and 1.4*.

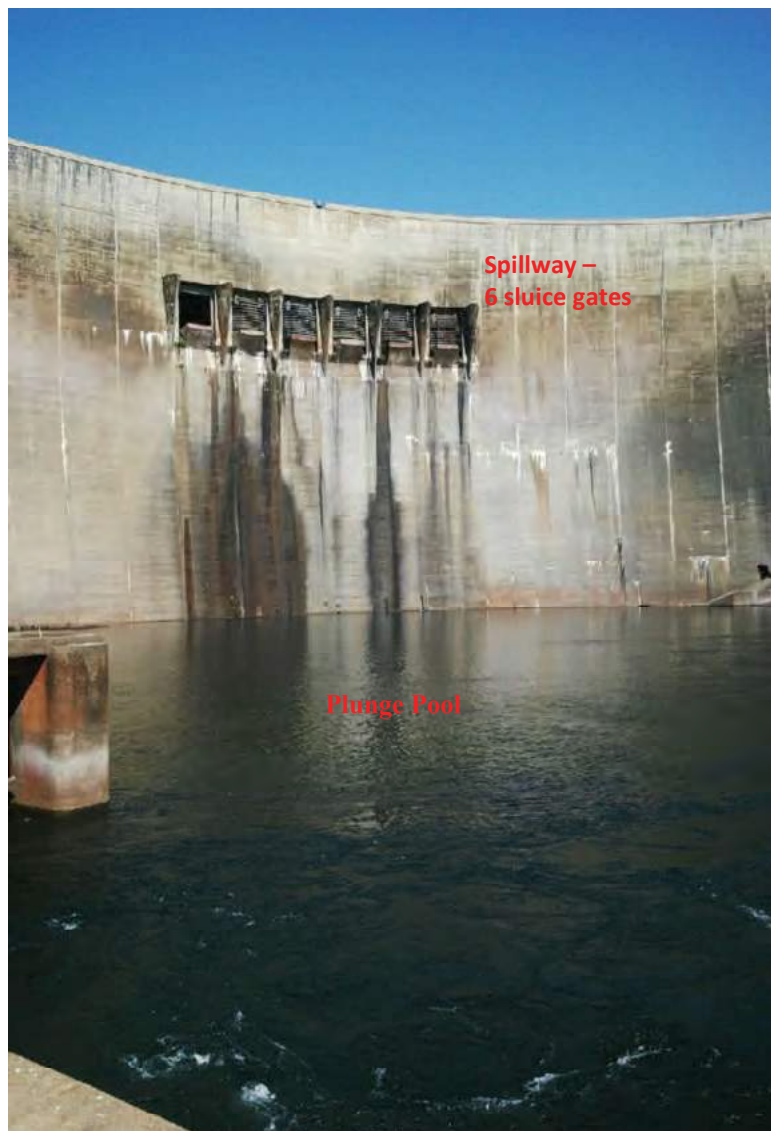
In order to manage future uncontrolled deepening of the plunge pool and to avoid the toe of the dam wall from weakening, it has been concluded that the plunge pool should be made bigger to include areas on both river banks as well as in a downstream direction. It is foreseen that this excavation and reshaping of the plunge pool will facilitate the draining of spillage flows downstream, and avoid the concentration of turbulence in a restricted and confined area as is currently the case. The position of the plunge pool is illustrated in *Figure 1.5*.



*Figure 1.3 : Kariba Dam - all six sluice gates of spillway open*



*Figure 1.4: Proposed reshaping of plunge pool*



*Figure 1.5 Proposed reshaping of plunge pool*



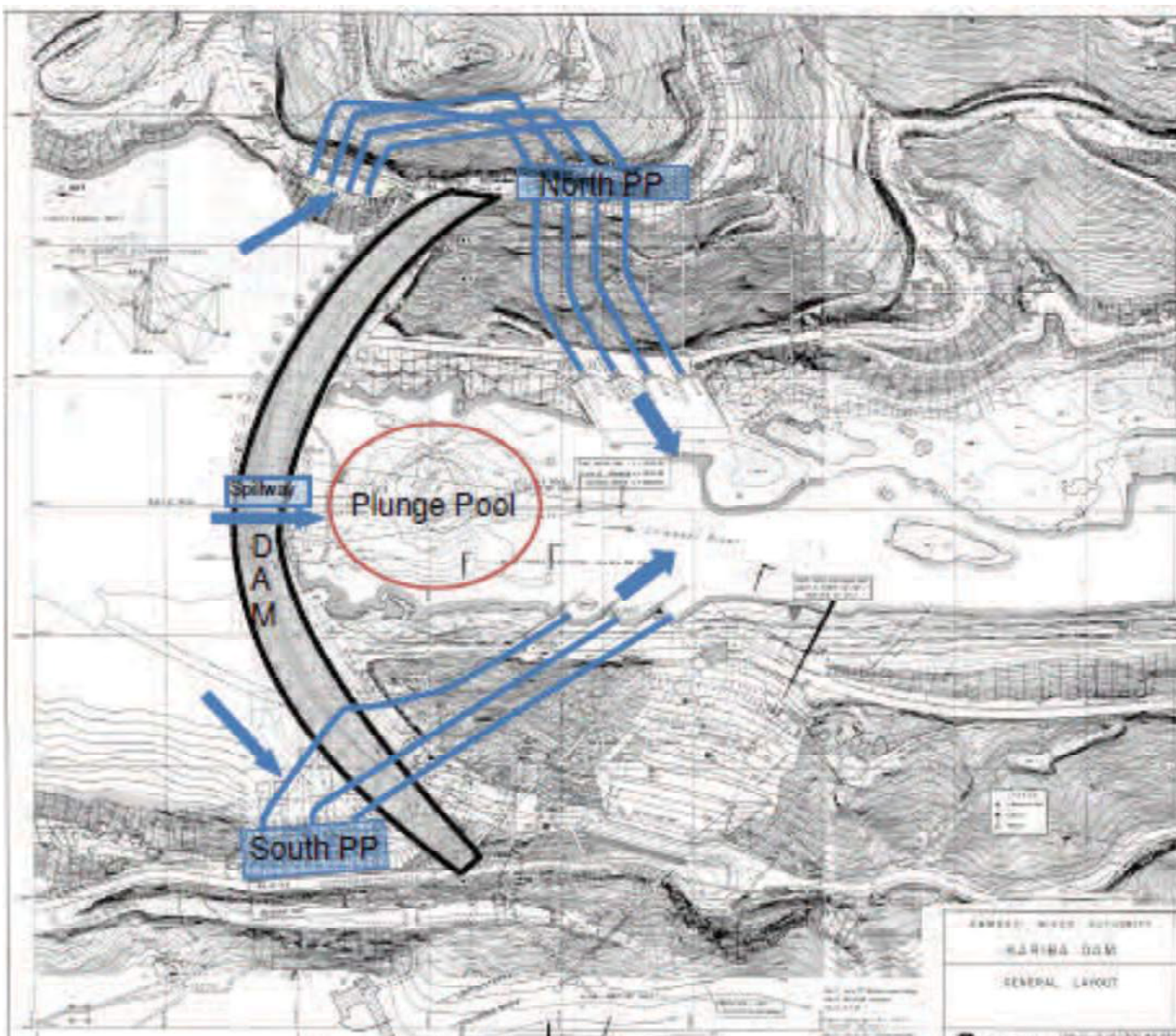
# THE PROPOSED PROJECT:

## PLUNGE POOL

The plunge pool will be enlarged through the excavation of the riverbed. The excavation will be performed with the drill and blast method. The excavated rock will be transported from the pool to a dump site 2.5 km downstream, on the Zambian side of the river; see *Figure 1.6*. Construction activities will begin with the drying of the river in the area of the plunge pool.

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

- access road rehabilitation and construction;
- construction of a cofferdam downstream of the plunge pool and upstream of the powerhouses’;
- pumping the water out of the plunge pool and releasing it further downstream in the Zambezi river;
- continuous pumping of water out of the plunge pool area for the entire duration of the works; and
- additional drilling and concreting inside the plunge pool area.



*Figure 1.6: Layout of the Kariba dam*



# THE PROPOSED PROJECT:

## PLUNGE POOL

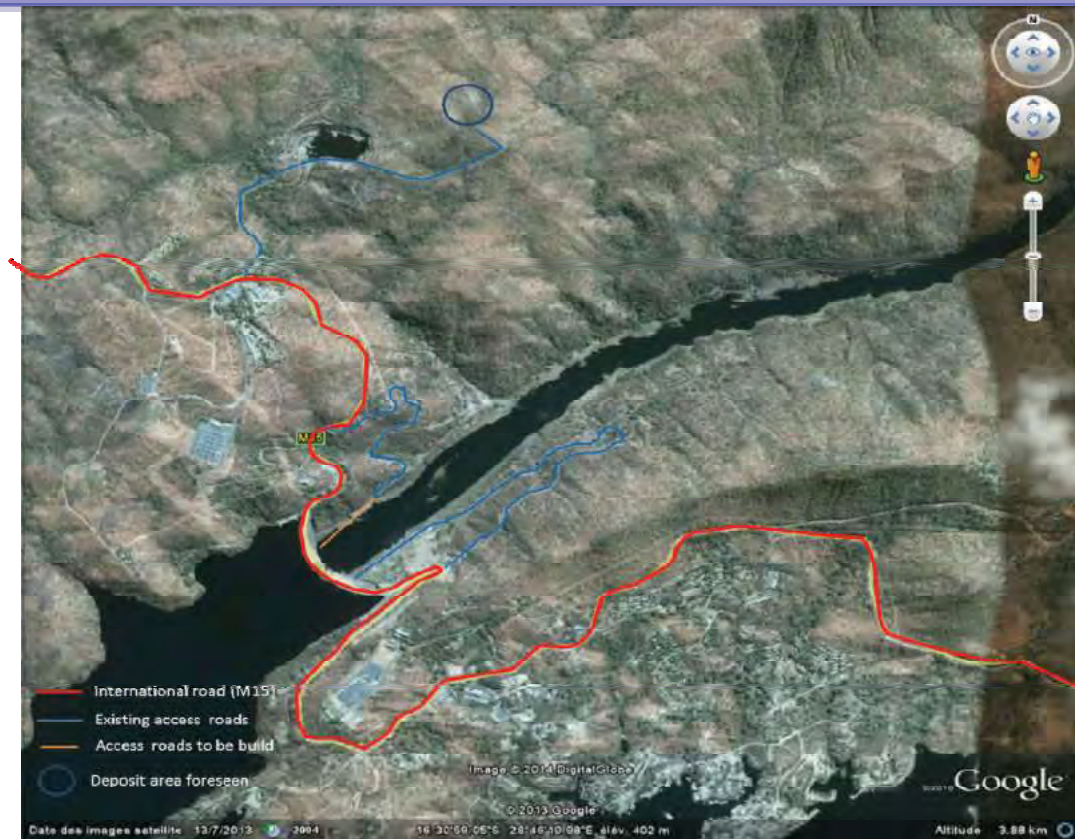


Figure 1.7: Access roads on site

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

The sequencing of the construction activities is illustrated in Figure 1.8 below.



Figure 1.8 Sequencing of plunge pool construction activities

# THE PROPOSED PROJECT:

## SPILLWAY

### Spillway Rehabilitation Works

The spillway is located in the arch dam wall and has six sluices equipped with downstream gates as shown in *Figure 1.9* below. Given the age (50 years) of the spillway's hydro-mechanical equipment and upstream grooves ZRA is proposing the replacement of the existing stopbeams with an emergency gate which will be operated in rehabilitated grooves.

The new gate will be operated by a new gantry (crane-like mechanism) and will slide into the rehabilitated upstream grooves. The construction of the emergency gate and associated infrastructure will be undertaken immediately after the rehabilitation of the plunge pool.

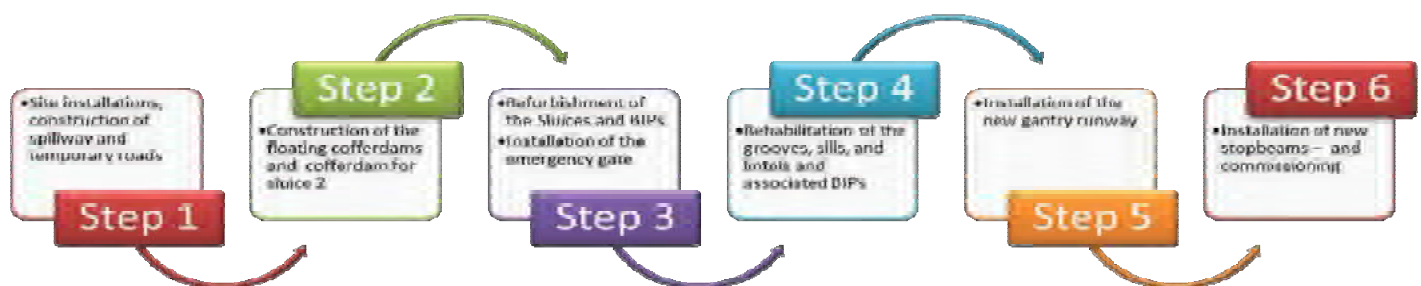
The rehabilitation activities will include:

- the installation of an emergency gate to be able to close a sluice, its associated gantry; and rehabilitation of the grooves, sills and lintels with new built-in parts adapted to the emergency gate;
- construction of cofferdams to dewater the sluices during the rehabilitation process; and
- Installation of new stopbeams for scheduled maintenance.

The sequencing of the construction activities is illustrated in *Figure 1.10* below.



*Figure 1.9: The spillway's six sluice gates in the arch dam*



*Figure 1.10: Sequencing of spillway construction activities*



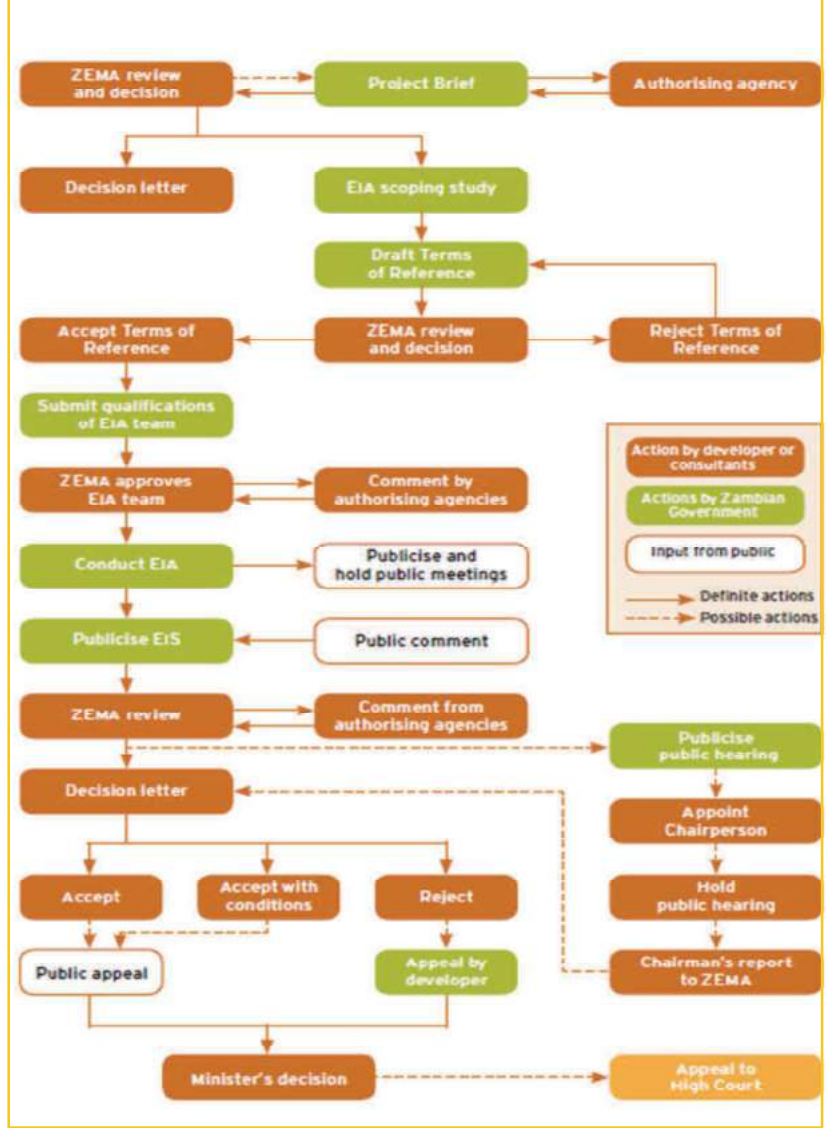
# THE ESIA PROCESS

The ESIA will be conducted in parallel in Zambia and Zimbabwe.

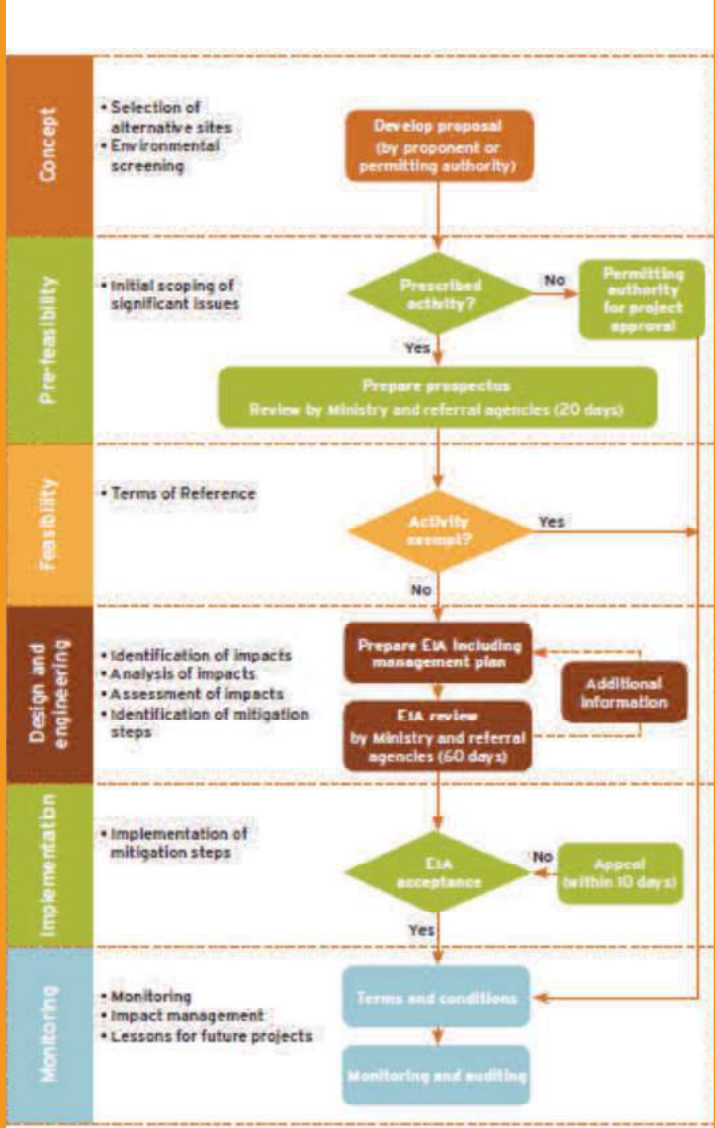
In Zambia, key legislation is the Environmental Management Act of 2011 which provides for integrated environmental management. In addition, the Environmental Impact Assessment Regulations (and Statutory Instrument 28 of the 1997 EIA Regulations) require developers to provide an environmental Project Brief to the Environmental Council of Zambia. If the Council finds that the project will have a significant impact on the environment, it may require the developer to submit an environmental impact statement. For this Project it has been decided by the ZRA that a full ESIA be undertaken to ensure that international standards are met.

In Zimbabwe, the key legislation is the Environmental Management Act (Chapter 20:27) which was enacted in March 2003. The act provides that the project developer (ZRA) should engage an independent consultant to undertake the ESIA. In addition, Statutory Instrument 7 of 2007 provides for the implementation of the findings of an EISA. Statutory Instrument No. 7 of 2007 the Environmental Management (Environmental Impact Assessments and Ecosystems Protection Regulations).

## ZAMBIA E(S)IA Process



## ZIMBABWE: E(S)IA Process



# STAKEHOLDER ENGAGEMENT DURING AN ESIA

An essential component of an ESIA is stakeholder engagement. The key objectives of the stakeholder engagement process of an ESIA are:

- to share information about the Project;
- to allow informants to raise concerns/ questions about the Project;
- to gather stakeholder responses on the ESIA findings and proposed management and design measures;
- to provide responses to concerns and questions, where possible, or to explore further as part of ESIA;
- to report back on the findings of the ESIA and proposed management measures; and
- to meet legislative requirements regarding stakeholder engagement.

## Be a Part of the Process

You are invited to participate in the ESIA process. The Stakeholder Engagement Process aims to inform a wide range of stakeholders about the Project and the environmental and social assessment process to be followed.

The engagement process allows for the public to exchange Project information and to express their views and concerns on the proposed development. The process assists in identifying potential issues and concerns that need to be addressed during the impact assessment. It also captures stakeholder comments and suggestions for inclusion in the ESIA report.

Therefore, please ensure that you are registered on the Project stakeholder database. The registration of your details will ensure that you receive on-going Project communication such as meeting invitations, Project updates and the opportunity to review the draft ESIA report.

### Key contact persons during the ESIA process are:

Mr. Felix Chisha in Zambia  
Mobile: +260-974-074 384; +260-963 258 535  
Email: [felixchisha@airtelzm.blackberry.com](mailto:felixchisha@airtelzm.blackberry.com)

Mr. Oliver Manjengwa in Zimbabwe  
mobile +263772958671)  
Email: [olivermanjengwa@gmail.com](mailto:olivermanjengwa@gmail.com)

Ms. Janet Mkhabela in South Africa  
Telephone: +27 21 681 5400  
Email : [janet.mkhabela@erm.com](mailto:janet.mkhabela@erm.com)

### Project Website:

<http://www.erm.com/KaribaDamESIA>

Should you have any queries, comments or suggestions regarding the Project, please note them below.

Felix Chisha in Zambia

Email: [felixchisha@airtelzm.blackberry.com](mailto:felixchisha@airtelzm.blackberry.com)

mobile +263772958671)

Email: [olivermanjengwa@gmail.com](mailto:olivermanjengwa@gmail.com)

Telephone: +27 21 681 5400

Email : [janet.mkhabela@erm.com](mailto:janet.mkhabela@erm.com)

Please formally register me as stakeholder and provide further information and notifications during ESIA process			Yes	No
I would like to receive my notifications by:	Email	Post	Fax	

[illegible]

Title and Name:			
Organisation:			
Telephone:		Fax:	
Cellphone:		Email:	
Postal Address:			

**Please fill-in your contact details below for the project database.**

<i>Name</i>	<i>Signature</i>	<i>Date</i>

***Thank you for your participation!***

**Thank you for your participation**

**Annex B:2**

## Background Information Documents (BIDs) Shona





# CHIZIVIZOCHEKUGADZIRWA KWEDHAMU NEKUTSIGIRWA KWEKUVAKWA KWEDHAMU REKARI- BA NEKUCHENGEDZWA KWEZVIWANIKWA NEMAGARIRO EVANHU (ESIA)

## Chinangwa Chegwaro Iri

Kuzivisa vanhu vemunharaunda kuchengetedza zviwanikwa uye kuvandundza Dhamu reKariba tisinga paradzi zviwanikwa zviri munharaunda merwizi rweZambezi. Iri gwaro rino kurudzira kuti vanhu vawuye kumisangano vachipawo, pfungwa dzavo mune zvingabatsira kuti kuvandudzwa kweDhamu reKariba kuenderere mberi zvakanaka.

Zviri kutarirwa neESIA zvakatarwa nemutsetse weyero pamufananidzo uripazasi *Figure 1.1*.

## Zvirimubsa Iri

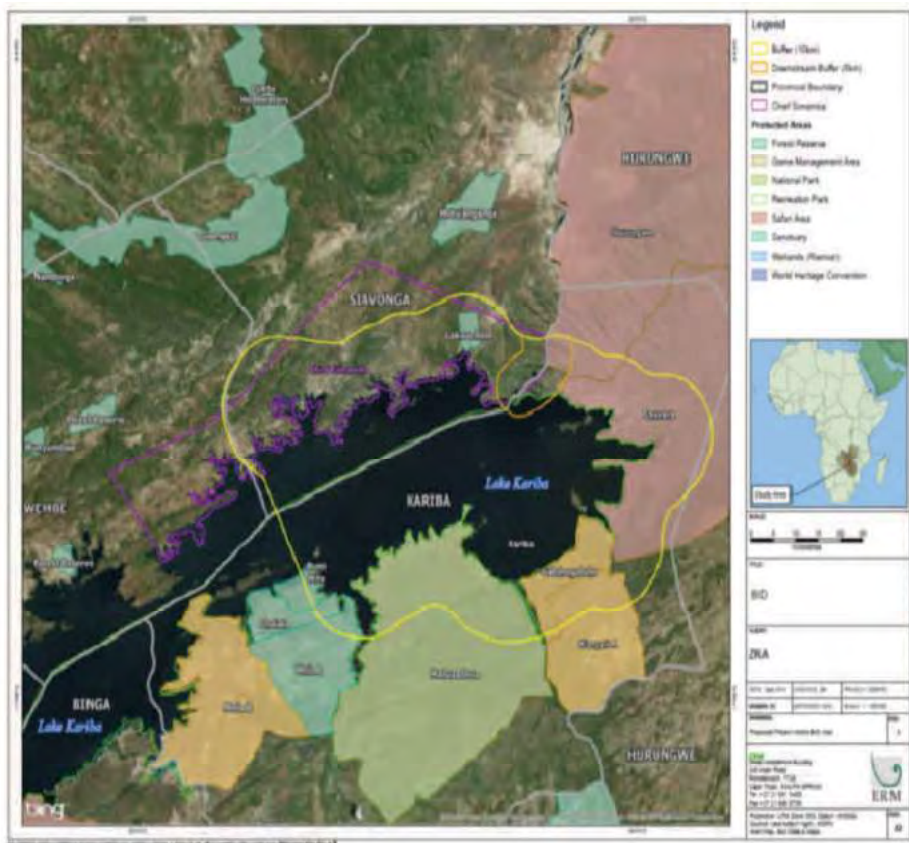
Dhamu reKariba riri murwizi rwaZambezi, pamuganhu weZambia neZimbabwe 280km kuChamhembe/Madokero eHarare. Dhamu reKariba riri pasi peZambezi River Authority (ZRA) yakatangwa 1987 ZRA inotongwa neHurumende dze Zambia ne Zimbabwe. ZRA ndiyo ino wona nekuvandudzwa kwerwizi rwaZambezi.

ZRA iri kutarisira kugadzira uye kuvandudza Dhamu reKariba. ZRA inofanira kuva negwaro reESIA zvichiwirirana nemitemo yeZambia neZimbabwe. ZRA ndiyo yakadoma Environmental Resources Management (ERM) kuti iyite ESIA.

## Chi chinondzi ESIA ?

Kuwongorora nekuona zvikodzera zvinogona kukananisa zviwanikwa nemagariro pakuvandudzwa kweDhamu reKariba. Basa risati rayitwa panoyitwa ESIA zvichiendrana nemitemo yenyika uye yepasi rose 'IFC'

ESIA inopindura mivhudzo mishanu inoenderana nekuvandudzwa kweDhamu. Tarisai *Figure 1.2* pazasi.



*Figure 1: Dhamu reKariba - ESIA parikutariswa*



### Kugadzirwa Dziva Rekunorasirwa

Nekufamba kwenguva, rekunorasirwa mvura ye Dhamu iri (80 m below the normal water level) kunofanira kugara kuchigadzirwa. Tarisai Figure 1.3 pazasi. Kana tichida kudzivirira kutsemuka kweDhamu tinofanira kugara takawongorora dziva rino rasira mvura ‘plunge pool’.Kune dziva rinorasirwa mvura ‘plunge pool’ kunoratidzwa pa Figure 1.4 pazasi.



Figure 1.3 : Kariba Dam - Kugadzirwa dziva rekunorasirwa

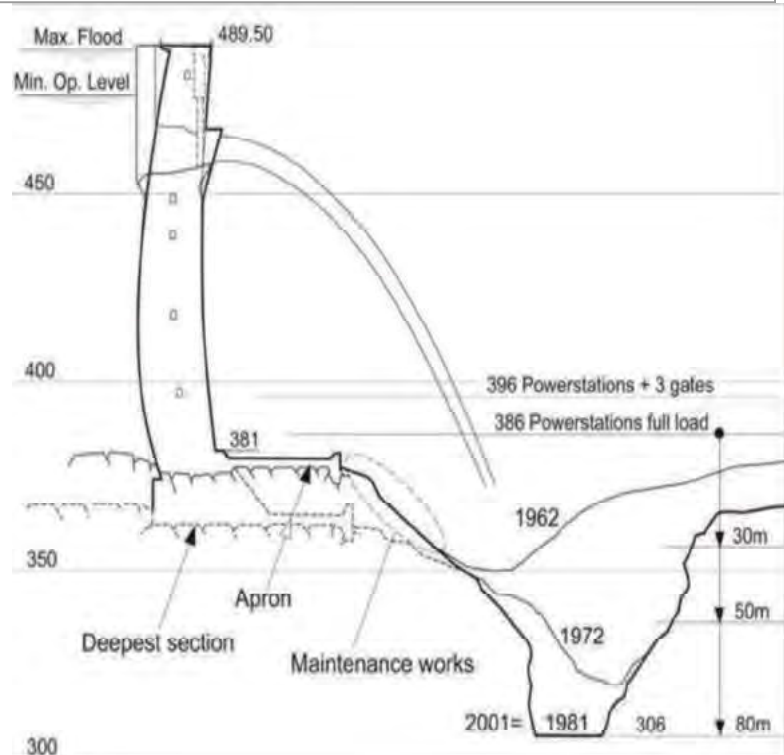


Figure 1.4: Kugadzirwa dziva rekunorasirwa

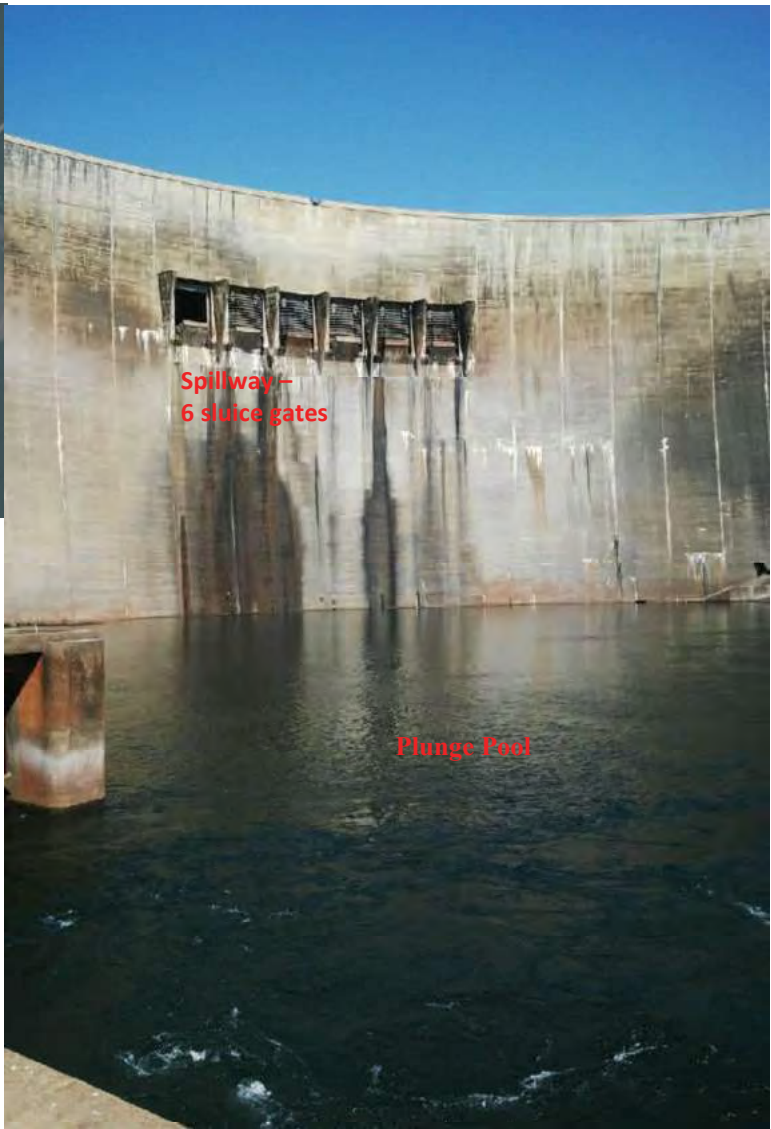


Figure 1.5 Zvino fungidzirwa kuti dzivarinorasirwa mvura rinenge rakaita



# **BASA IRI KUGADZIRWA**

## **DZIVA REKUNORASIRWA**

Dziva iri richa kudzwa nekuchera mumahombe kombe erwizi. Pachadirirwa nokudhuwutsa. Matombo achabviswa apa acha rasirwa 2.5km zasi dziva, divi reZambia. Kuvakwa kwedziva iri kuchatanga muchirimo.

Zvichaitwa ndezvizvi:

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

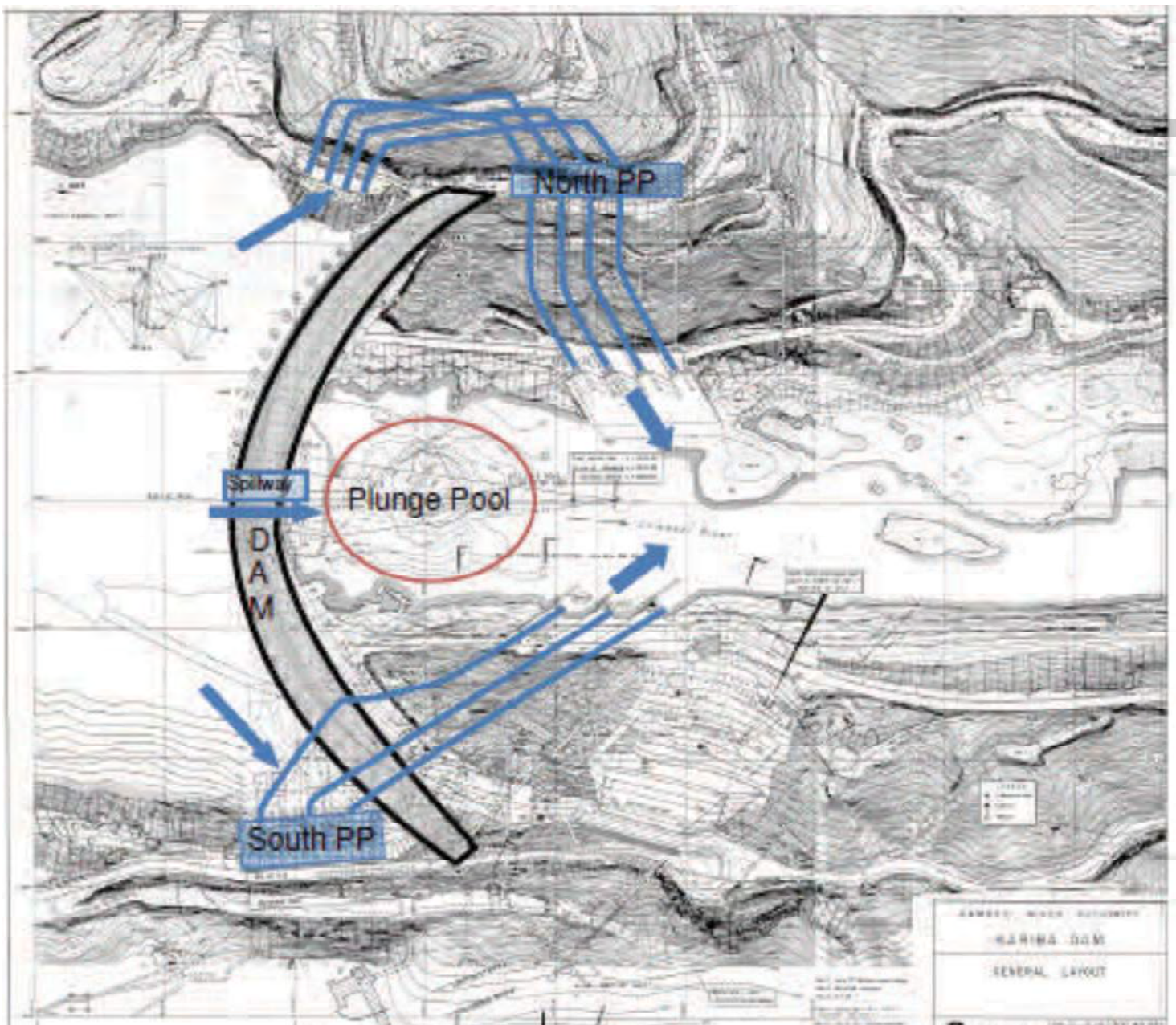


Figure 1.6: Layout of the Kariba dam



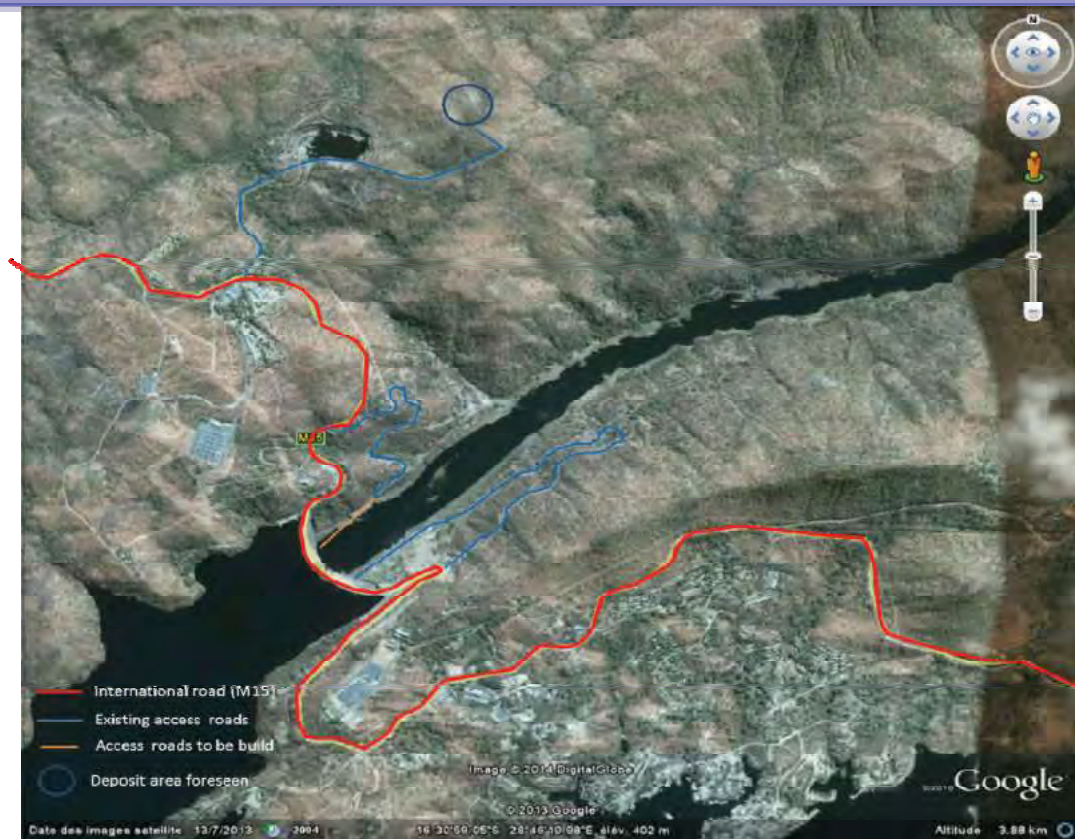


Figure 1.7: Access roads on site

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

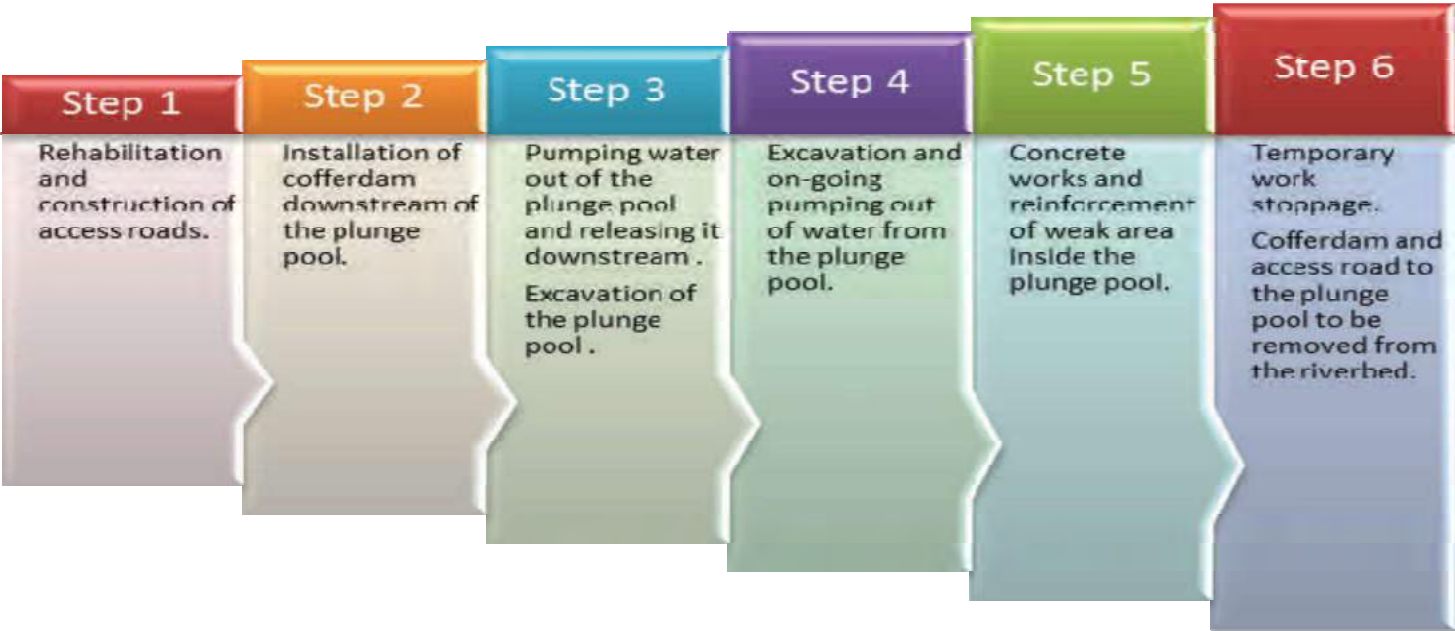


Figure 1.8: Zvichaitwa pakuvakwa kwedziva rinorasirwa mvura

# KUGADZIRWA

## KUNORASA MVURA

### Spillway Rehabilitation Works

Dhamu rave nemakore makumi mashanu (50 years). ZRA irikutarisira kuisa mishini mitsva panorasirwa mvura.

Gede idzva richange richivhurwa nekireni (crane).

Mukugadzirwa kuchatevedzerwa izvi:

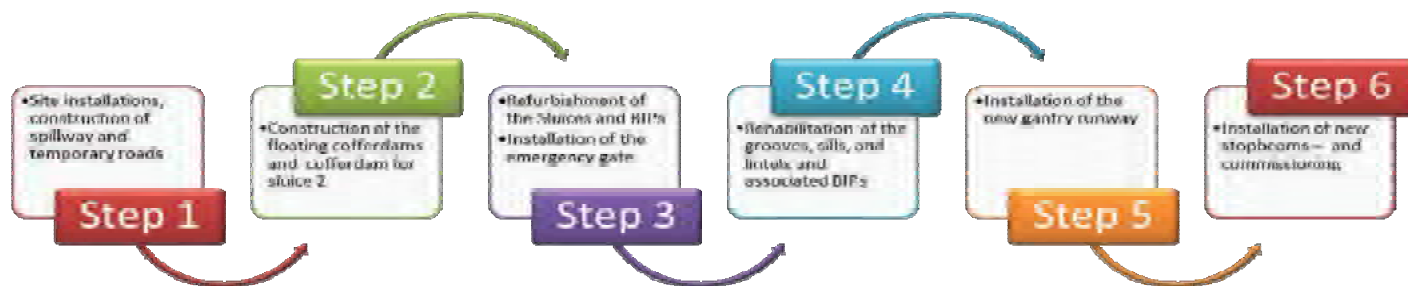
- kuvakirwa kwegede rekudzivirira tsaona rinofanira kugona kuvhara zvakanaka
- kuvakwa kwema 'cofferdam' kuita kuti abvise mvura muma 'sluice' nguva yekuvaka

Zvidanho zvekuvaka zviripa *Figure 1.9 and 1.10* pazasi.

Kugadzirwa kwemagede anorasa mvura kana dziva repano rasiwa mvura rapera kugadzirwa.



*Figure 1.9: Mufananidzo we pano rasira mvura uri pazasi*



*Figure 1.10: Zvidanho zvekuvaka zviripa*



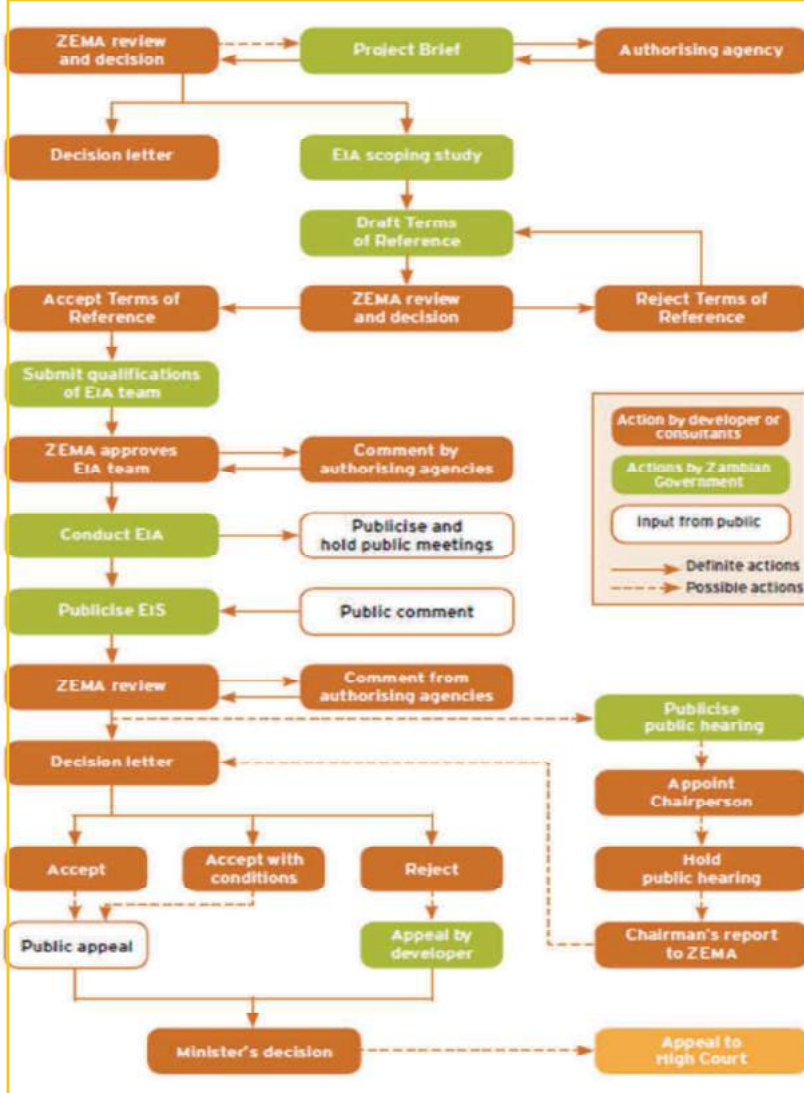
# ESIA INCHAITWA

ESIA inchaitwa muZambia neZimbabwe.

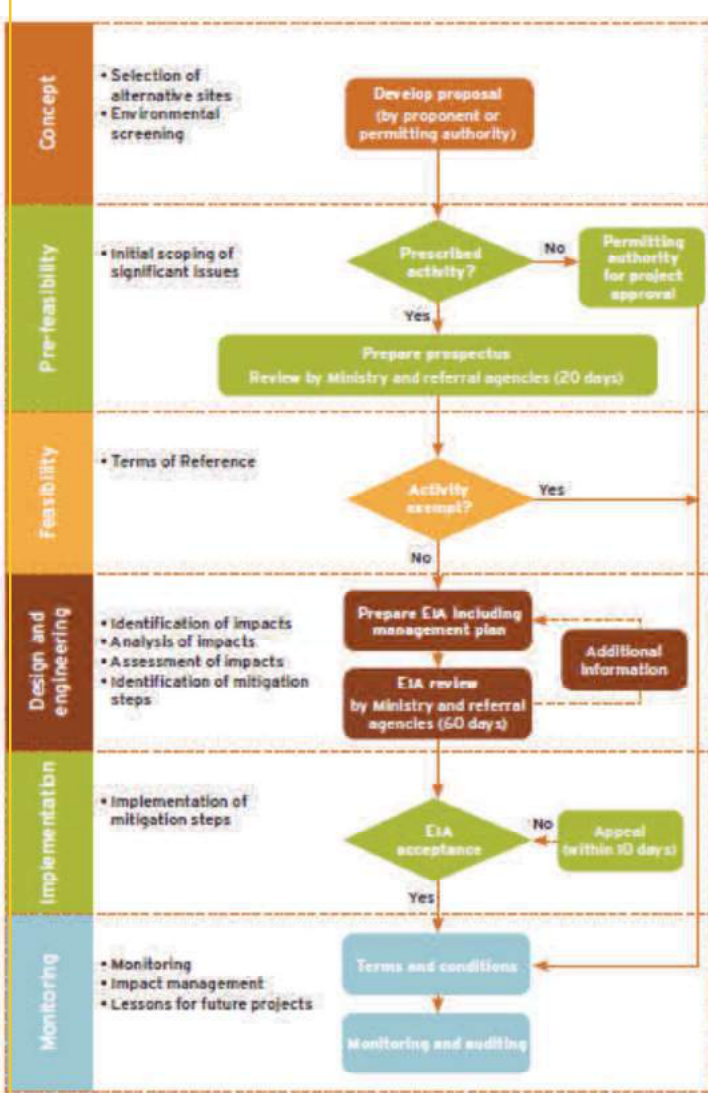
MuZambia mutemo ndiwo Environmental Management Act ya 2011 inopa simba ku Environmental Management. Pamusoro pazvo Environmental Impact Assessment Regulations (uye Statutory Instrument 28 ya 1997 EIA Regulations) inoti muvhaki anopa Environmental Council yeZambia muchidimbu chezvaanoda kuita. Kana Council ikaona zvisingaiti inotaurira muvaki kuti aite Environmental Impact Assessment. Izvi, ndozvaita kuti ZRA ipe basa iri kuESIA sezvino bvumirwa nepasi rose.

MuZimbabwe mutemo weEMA (Chapter 20:27) wakadzikwa gore ra 2003March mutemo unoti ano vhaka (ZRA) ano sungirwa kutora ESIA kuita basa iri. Izvi zvirimugwaro (Statutory Instrument 7 ya 2007). Zvawanikwa ne ESIA zvino sungirwa kutevedzerwa Statutory Instrument 7 ya 2007 ye EMA ino taura nezveEIA uye EPR (Environmental Impact Assessments and Ecosystems Protection Regulations).

## ESIA inchaitwa muZambia



## ESIA inchaitwa muZimbabwe



Vanhu venharaunda vano kosha kuti vapewo maonero avo.

- Zvinokosha kvanhu venharaunda ndezvizvi:
- kupana ruzivo mune zvichaitwa;
- kuti vanhu vataure zvavano funga mubasa iri;
- kupuwa mhinduro mune zvino vanetsa;
- kutaaurira vanhu zvinenge zvataurwa nevakuru veESIA ;
- kutevedzera zvinodiwa nemutemo kuitirwa vanhu vemunharaunda.

## Iva nezve kurongwa kwegwaro iri

Munokumbirwa kuita misangano ne ESIA. Vanhu vemunharaunda vanofanira kuziviswa zvichada kuitwa uye kuchengetedzwa kwezviwanikwa nemagariro evanhu.

Saka vanhu vemunharaunda vanokurudzirwa kunyoresa mu 'Project database'. Izvi zvinoita kuti vagodaodzwa kumisangano, mvachitaurirwa zviri kuitwa kana kurongwa neESIA.

### Key contact persons during the ESIA process are:

Mr. Felix Chisha in Zambia  
Mobile: +260-974-074 384; +260-963 258 535  
Email: [felixchisha@airtelzm.blackberry.com](mailto:felixchisha@airtelzm.blackberry.com)

Mr. Oliver Manjengwa in Zimbabwe  
mobile +263772958671  
Email: [olivermanjengwa@gmail.com](mailto:olivermanjengwa@gmail.com)

Ms. Janet Mkhabela in South Africa  
Telephone: +27 21 681 5400  
Email : [janet.mkhabela@erm.com](mailto:janet.mkhabela@erm.com)

### Project Website:

<http://www.erm.com/KaribaDamESIA>

Kana zvamusinga dzwisisi nenyaya iyi tinyorereyi kana kuchaya runhare panhamba dziri pazasi.

Email: [felixchisha@airtelzm.blackberry.com](mailto:felixchisha@airtelzm.blackberry.com)

Email: [olivermanjengwa@gmail.com](mailto:olivermanjengwa@gmail.com)

Email : [janet.mkhabela@erm.com](mailto:janet.mkhabela@erm.com)

Please formally register me as stakeholder and provide further information and notifications during ESIA process			Yes	No
I would like to receive my notifications by:	Email	Post	Fax	

[illegible]

Title and Name:			
Organisation:			
Telephone:		Fax:	
Cellphone:		Email:	
Postal Address:			

Please fill-in your contact details below for the project database.

<i>Name</i>	<i>Signature</i>	<i>Date</i>

***Thank you for your participation!***

**Thank you for your participation**

**Annex B:3**

## Background Information Documents (BIDs) Tonga





# BACKGROUND INFORMATION DOCUMENT for the proposed rehabilitation of the dam support infrastructure KARIBA DAM REHABILITATION ESIA (Makani amba ku- milimo ya ESIA eti kabelekwe ku Damu Ya kaRiba)

## Nchito Ya Ka Bbuku Aka

Chipati cha eyi Background Information Document (BID) chakupa makani na mulumbe kuli babo ibayanda aa babo baya kugumwa muchikuwa tubaita kuti “Interested and Affected Parties” (IAPs) kutegwa oyu mulimo witwa kuti Environmental and Social Impact Assessment mubu wafwi na mukufwimpya witwa kuti “ESIA”, kutegwa tutalike kubamba na kusumpula kuyaga buyage bwa damu ya Kariba buli a mulonga wa Zambezi. Eyi BID iyakuziyibya inkamu yaba IAPs kutegwa ijane kujatikizya muli yeyi ESIA aku bayekesa akusumpula akujanika mu miswangano akuwihila mibuzyo ijatikizya eyi milimo. Busena bwa milimo bwa ESIA babutondeya muchipekweku chitwa Figure 1.1 chili ansi mukeengo ka yellow.

## Nkoizya Nchito Eyi

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

Ba ZRA bajisi muzezo wakuti ba botezye masena ambi ali mu a damu ya Kariba ategwa kuti plunge pool a spillway. Ba ZRA bayandika kupanga ESIA eyo iti ipangwe kwendelezyanya amilawo ibambwa azintu zilengwa a Leza ya mu chisi cha Zambia a cha Zimbabwe kabata na zuminizigwa akwelana kuchilila iti ikazwe muli oyu ESIA. Ba ZRA bakasala kampani itegwa Environmental Resources Management (ERM) kuti ibeleke mulimo wa ESIA.

## Sena ESIA Chinzi?

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

Oyu mulimo inga taulaligi kubula kumanizya oyu ESIA. Oyu ESIA ulelede kuchitwa kuchilila milawo ya muchisi chesu akuchilila milawo ya chisi choonse mbochizulwa ayo yaitwa ngo baita muchikuwa kuti ‘IFC’s Performance Standards’. Milimo ya ESIA yalibamba kuvwila mibuyo ili yosano (5) ijatikizya ku milimo iyo iyandika kubelekwa. Eyi mibuzyo ya tondezegwa ansi awa mu Figure 1.2

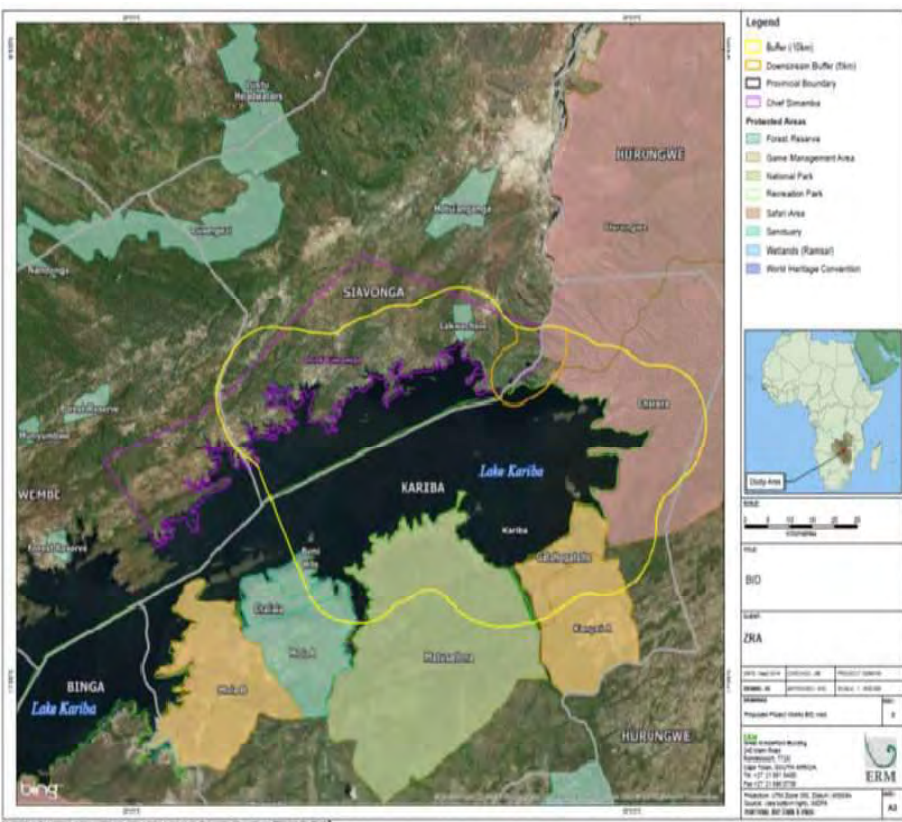


Figure 1: Busena Kutikachitikile Milimo Ya ESIA



# MILIMO:

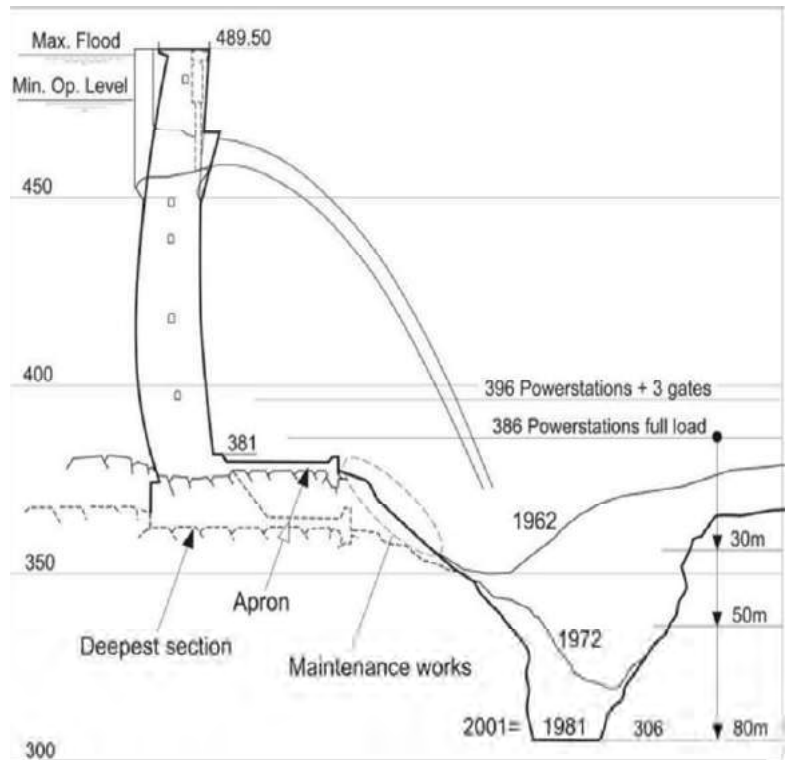
## PLUNGE POOL

### Kubamba Plunge Pool

Damu ya Kariba iyandika kubamba kubambwa kubusena bwitwa plunge pool aku spillway. Eyi milimo yatondezegwa ansi awa. Mukaambo kakuti meenda manji ayo aala kutika kumyaka minji yainda, nyika yansi ya mulonga awo atikila meenda witwa kuti plunge pool (obu busena buchilila kuze ya lubumbu) yaaligwa kusika kukubala 80m kwinda asimpila meenda. Nchechicho echo chipa kuyeya kupati alusumpuko lwa eyi plunge pool ku mazuba aboola kumbela. Muchiindi chakuzula kwa milonga (mainza) echo chinga chapa kuti chitole chiindi chipati cha kujalula meenda mbuli mbo mubona muchipekupeku cha *Figure 1.3* ansi awa. Mu kuyandaula kuli kwabilila a kusya kuli eyi plunge pool, muya mazuba inga chapa kuti lubumbu lutetete, cha jana kuti kube ku-komezwa eyi plunge pool kusika mu masena ali koonse kobile kumbali ya mulonga kuchilila kuunka mulonga. Cha janwa kuti kusha akupanga kabotu eyi plunge pool ina kupa kuti meenda anakweenda kuchilila mulonga alimwi chinakupa kuti meenda kaya-chuma abusena antomwe obu mbo chibede achiindi chino. Obu busena bwa plunge pool twa itondezwa mu *Figure 1.4 and 1.5* ansi.



*Figure 1.3 : Mboiboneka Damu ya Kariba na malyango yoonse kaibeleka*



*Figure 1.4: Kubambamika milimo yakuyaka Plunge Pool*



*Figure 1.5 Kubambulula ku Plunge Pool kwakasalwa*

# MILIMO:

## PLUNGE POOL

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

Kuli milimo imbi ija tikisya ku kubotesya ili mbuli;

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

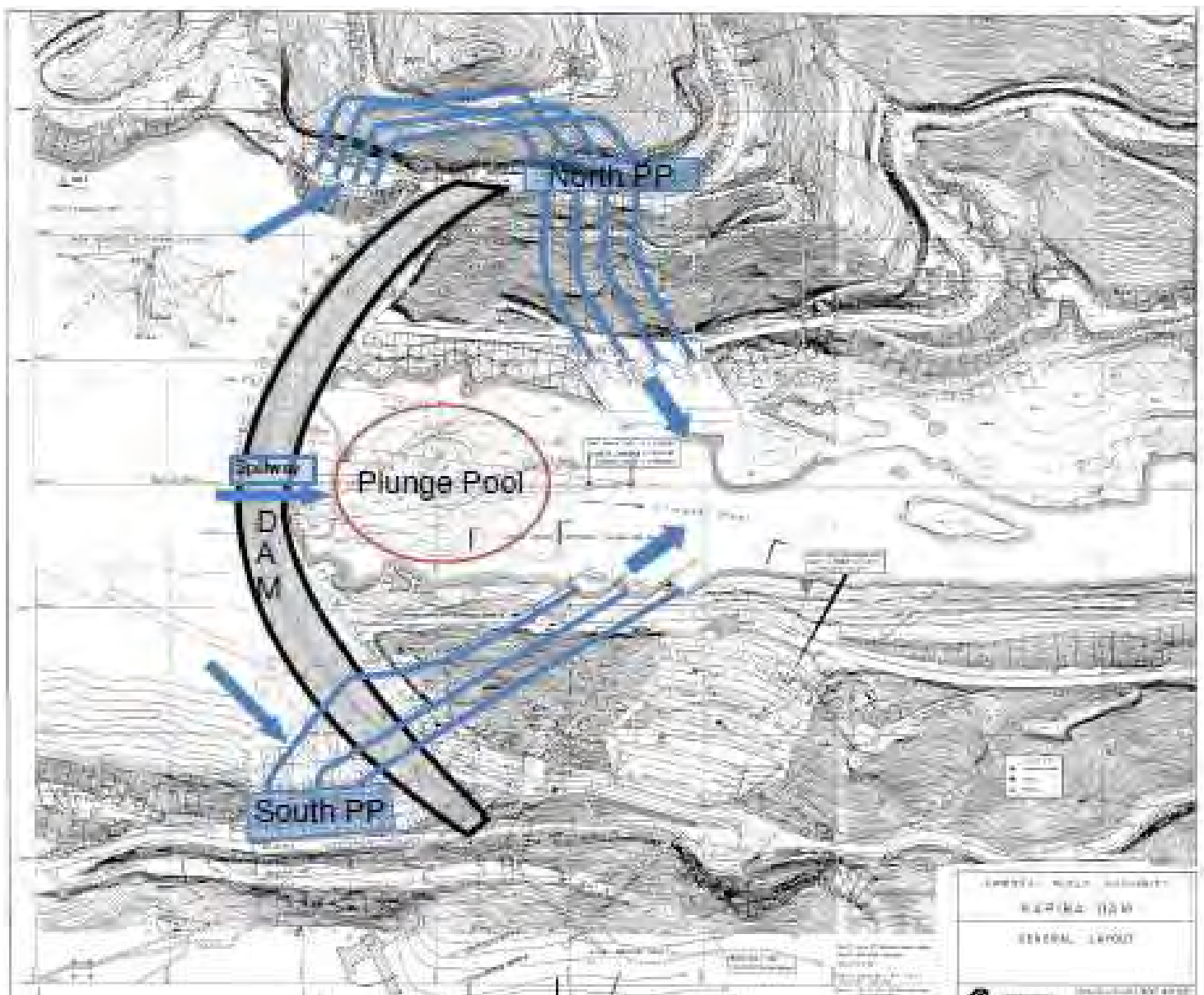


Figure 1.6: Layout of the Kariba dam



# MILIMO: PLUNGE POOL

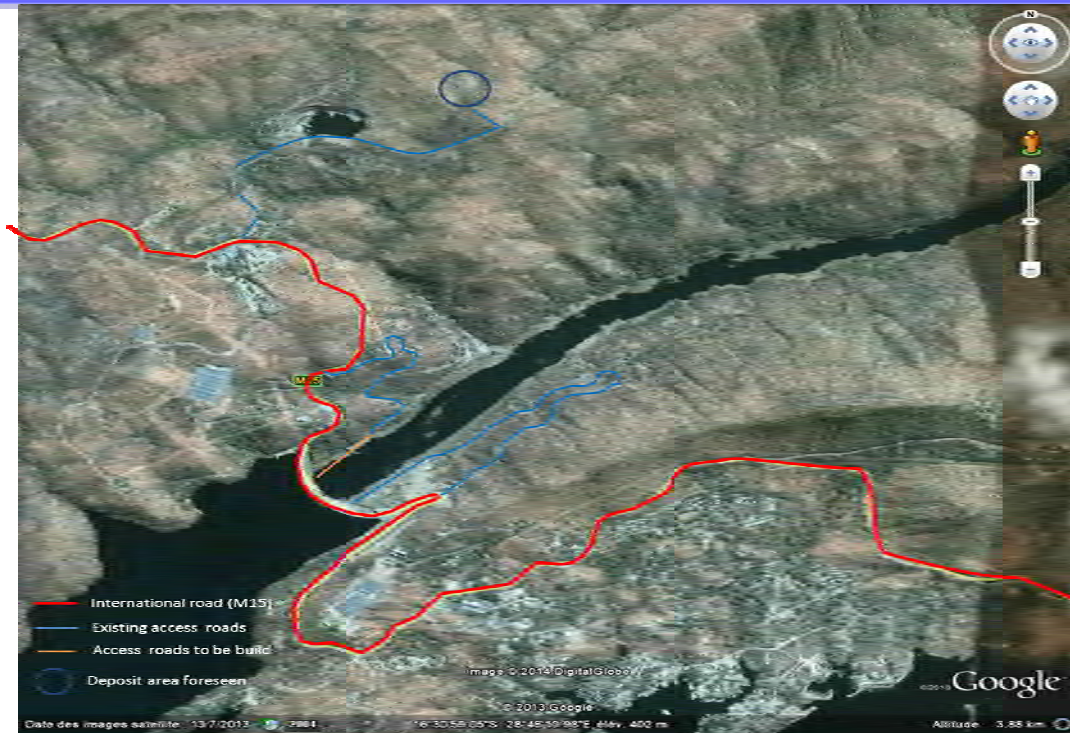


Figure 1.7: Access roads on site

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



Figure 1.8: Kubambamika milimo yakuyaka Plunge Pool

# MILIMO YAKUYAKA SPILLWAY :

## Milimo yakuyaka Spillway

Eyi spillway ili ku lubumbu ya damu ilijisi mwiinda meenda muli six (6) moonya muli milyango eyo ilangide kuunka meenda mbuli kutondezyegwa mu *Figure 1.9* ansi awa. Akulanga myaka yainda ili makumi yosanwe (50yrs) kulanga minshini ya mu spillway mbo yabeleka, ba ZRA bayanda kuti bachinche ezyo zitwa kuti stopbeams akubika mulyango mupati uyakuba mu musena oyu mupya.

Izvi zvichatora makore masere, gore rogaroga pachishandwa muna February na May. Oyu mulwango mupya una kubelesyegwa achi munsini chitikanjilile kumbele ya damu. Buyake bwa mulyangu oyu azyimbi zintu ziyakuchitika munsini lya kubamba nakubotezya plunge pool.

Inchito ya kubamba ezi zyintu zili mbuli bobu:

- Kupanga uyu mulyango wakuvwavwanya amilimo yoonse ijatizya kuli nguwe;
- Kupanga ma cofferdam ayo yatikagwashilishe kupompolola meenda mu chiindi cha milimo neyi chibeleka;
- Kubika ma stopbeams manyowana ayo yati kagwashilishe ku milimo yaku botezya

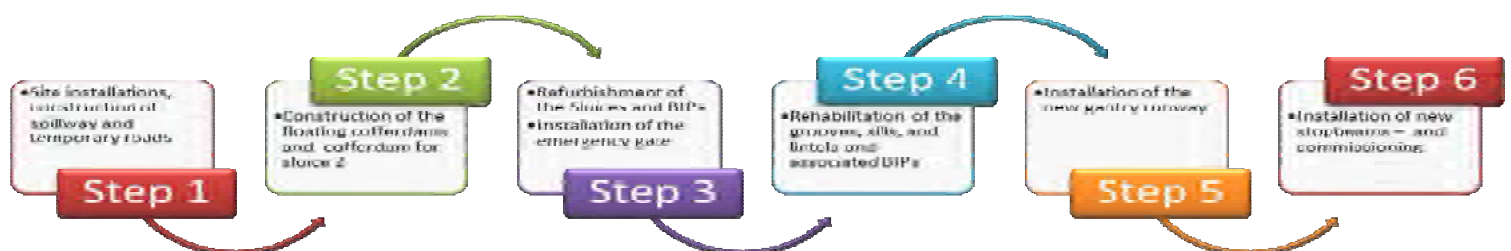
Eyi milimo yabuyake mbo yiti kachililane yatondezyegwa mu *Figure 1.10* ansi awa.

Kubamba kwa milyango ya spillway iya kuchitigwa munsini ya kumanizya kubeleka milimo ya plunge pool kutegwa meenda kazwida ku mulyango kumbali na kulubazu lumbi kutegwa atanyonyoli eyi plunge pool iya kupangwa.

*Tuyeyela ku manizya eyi milimo kusika ku myaka ili 8. (amwaka kuzwa mu February akusika mu May).*



*Figure 1.9: The spillway's six sluice gates in the arch dam*



*Figure 1.10: Kubambamika milimo yakuyaka Spillway*



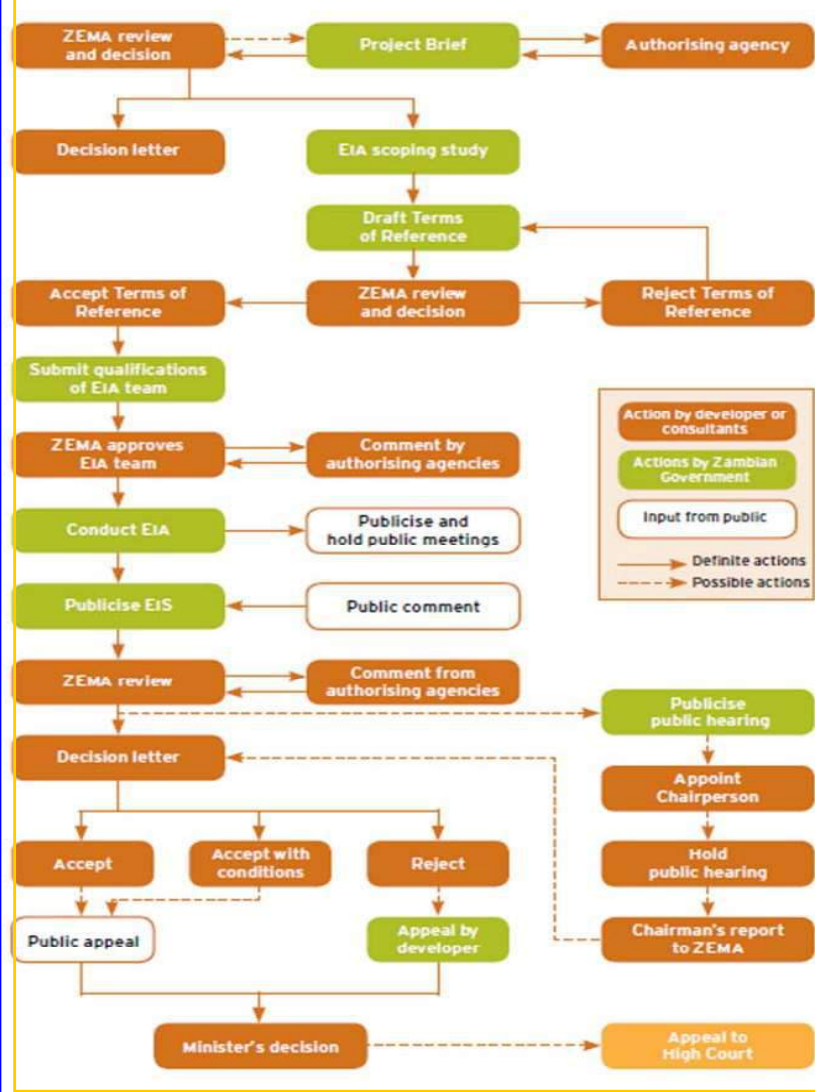
# MILAYO IYA MILIMO ESIA

Eyi ESIA yiya kuchitwa achiindi chomwe mu chisi cha Zambia a chisi cha Zimbabwe.

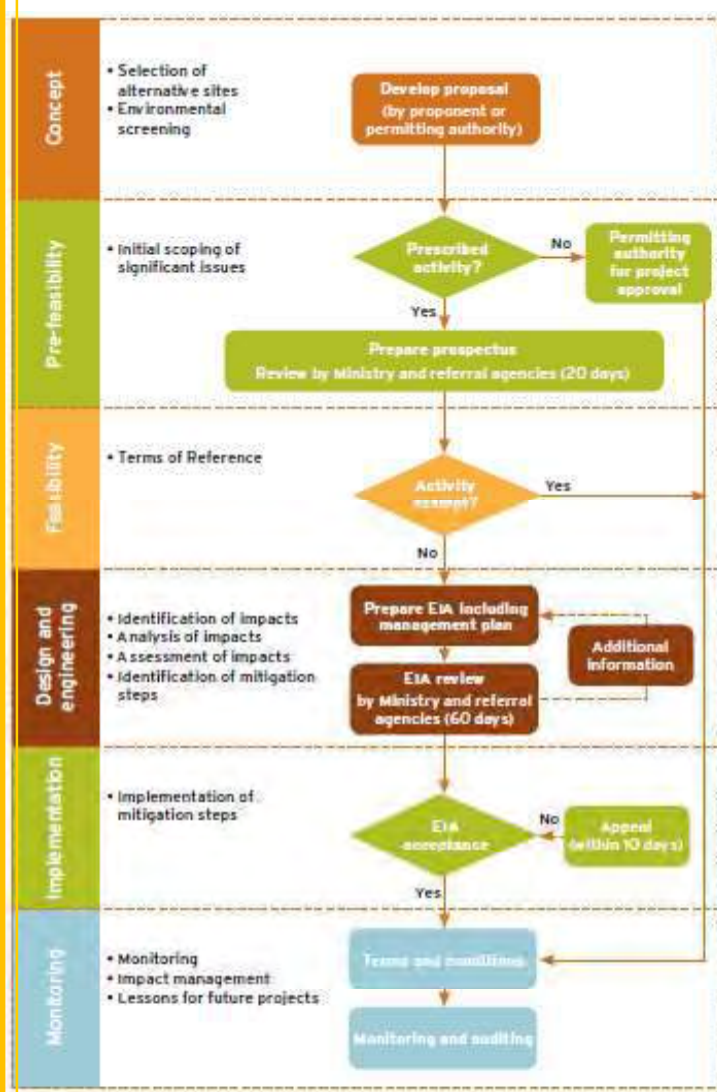
Mu chisi cha Zambia, milawo ipati itwa kuti Environmental Management Act ya mu mwaka wa 2011 iyo ijatizya na ilangilila zintu zyoonse zya lengwa aleza. Kunyungizya, eyi, Environmental Impact Assessment Regulations (a Statutory Instrument 28 ya mu mwaka wa 1997 EIA Regulations) uyanda bene ba milimo (ZRA) kupa ba Zambia Environmental Management Agency (ZEMA) eyi Environmental Project Brief. Kuti ba ZEMA bajanika kuti eyi milimo inga yanyonyola busena na nyika, inga bambila mwine wa milimo kuleta Environmental Impact Statement (EIS). Chechecho, amilimo eyi ba ZRA bazuminizyanya kuti eyi ESIA mbo izwide akuti tuchilile milawo a cisi choonze mbo chizulwa.

Mu Chisi cha Zimbabwe, milawo ipati itwa kuti Environmental Management Act (Chapter 20:27) ayo yabikwa mu mwenzi wa March mu mwaka wa 2003. Oyu mulawo uyanda bene ba milimo (ZRA) beleede kujizya mubele syi wa kuzwa kumbi kuboora ku belekamilimo ya ESIA. Aku nyungizya, mulawo witwa kuti Statutory Instrument 7 ya mu mwaka wa 2007 yamba kuti zyoonse zizwa na zya janika muli oyu ESIA zya chilila. Statutory Instrument No. 7 ya mu mwaka wa 2007 wa the Environmental Management (Environmental Impact Assessments and Ecosystems Protection Regulations).

## ESIA inchaitwa muZambia



## ESIA inchaitwa muZimbabwe



Mulimo upati muli yeyi ESIA ngwakwita bantu abo bajatikizya a milimo eyi. Eyi milimo ibelesyegwa kuyanda kuti;

- kuzyiba bantu amilimo iti ikabelesege;
- kupa bantu chiindi chku twambila miyeyo amibuzyo zyaba anchito eyi;
- kutelela bantu mbo bayeya izyizwa muli oyu ESIA antoomwe akwendelesyanya buti oyu ESIA;
- kuvwila mibuzyo, nzomuyanda olo kubweza mibuyo akubika muli oyu ESIA;
- kujana lwiiyo mu zintu zyazwa muli oyu ESIA;
- kuchilila milawo eyo iguma bantu bagumidwe ku milimo eyi.

## **Amujanwe Muli Eyi Nchito Ya ESIA**

Mwayitwa kutegwa mu janike mu milimo ya ESIA. Eyi inchito yakwita bantu kuti ba janike yiyandika ku zyibisya bantu banji pa inchito iti ikabelekwe azyimbi zi chililana na ziti kachilile.

Uku kwitwa kwa bantu kupa bantu mboona chiindi ya kwamba amilimo iti ikabelekwe. Eyi nzila ilagwasilisya kuzyiba miyeyo ya bantu kutegwa baboole ku vwila achiindi chakupanga eyi impact assessment. Ilagwasilisya kulemba zyoonse zyamba bantu antoomwe amiyeyo yabo mbo tunga twabika mu ESIA. Nchechicho, twakomba amubone kuti mwalembya mbuli muntu ujatilizigwa amulimo oyu. Na mwalembya tunakumitumina makani anakuchitika amilimo eyi mbuli ku miswangano, akumupa chiindi cha kuyinduluka muli uyu ESIA wa matalikilo.

**Na mwamana mupe ba :**

Mr. Felix Chisha in Zambia  
Mobile: +260-974-074 384; +260-963 258 535  
Email: [felixchisha@airtelzm.blackberry.com](mailto:felixchisha@airtelzm.blackberry.com)

Mr. Oliver Manjengwa in Zimbabwe  
mobile +263772958671  
Email: [olivermanjengwa@gmail.com](mailto:olivermanjengwa@gmail.com)

Ms. Janet Mkhabela in South Africa  
Telephone: +27 21 681 5400  
Email : [janet.mkhabela@erm.com](mailto:janet.mkhabela@erm.com)

**Project Website:**

<http://www.erm.com/KaribaDamESIA>

Na mulijisi mibuzyo, olo zya kwamba zyimbi ziyatikisya ku mulimo oyu, amulembe zyoonse ansi awa.  
Na mwamana mupe ba:

Email : [janet.mkhabela@erm.com](mailto:janet.mkhabela@erm.com)

Please formally register me as stakeholder and provide further information and notifications during ESIA process			Yes	No
I would like to receive my notifications by:	Email	Post	Fax	

[illegible]

<b>Title and Name:</b>			
<b>Organisation:</b>			
<b>Telephone:</b>		<b>Fax:</b>	
<b>Cellphone:</b>		<b>Email:</b>	
<b>Postal Address:</b>			

**Please fill-in your contact details below for the project database.**

<i>Name</i>	<i>Signature</i>	<i>Date</i>

*tion!*

Annex B:4

## Site Notice (English)



## **NOTIFICATION OF AN ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT FOR THE KARIBA DAM INFRASTRUCTURE REHABILITATION PROJECT**

The Kariba Dam is located on the Zambezi River, on the border between Zambia and Zimbabwe. It is situated 130 km south-south-east of Lusaka (Zambia) and 280 km north-west of Harare (Zimbabwe). The Kariba Dam is managed and operated by the Zambezi River Authority (ZRA), a statutory body established in 1987 and jointly and equally owned by the Governments of Zambia and Zimbabwe. ZRA is also responsible for overseeing the further development of the Zambezi River. The ZRA is proposing the rehabilitation of some of the support infrastructure of the Kariba Dam, namely the plunge pool and spillway.

Project construction activities will take place over a period of 7-8 years and activities include:

- access road rehabilitation and construction;
- re-shaping and enlargement of the plunge pool;
- construction of cofferdam downstream of the plunge pool;
- pumping water out of the plunge pool and releasing it downstream in the Zambezi river;
- replacement of the existing stopbeams in the spillway with an emergency gate;
- construction of cofferdams to dewater the sluices of the spillway during the rehabilitation process; and
- installation of new stopbeams in the spillway for scheduled maintenance.

### **PUBLIC PARTICIPATION PROCESS**

The ZRA require an ESIA to be undertaken in accordance with the environmental regulations of Zambia (Environmental Management Act, 12 of 2011) and Zimbabwe (Environmental Management Act, 13 of 2002) before permission may be granted to continue with the works subject to the findings of the ESIA.

ZRA appointed Environmental Resources Management (ERM) Southern Africa as the environmental consultant to conduct the ESIA and associated public participation process.

This advertisement serves as notification of the commencement of the public participation process for the ESIA. Herewith you are invited to register as a stakeholder and to participate in the ESIA and public participation processes. As a stakeholder you will be kept informed of the ESIA process, you will have the opportunity to comment on the ESIA and raise your issues/concerns about the Project.

To register as a stakeholder, you can contact: Ms Janet Mkhabela, by email: [Janet.Mkhabela@erm.com](mailto:Janet.Mkhabela@erm.com) or by telephone on + (27) 21 681 5400; Oliver Manjengwa in Zimbabwe mobile + (263) 772 958 671 Email: [olivermanjengwa@gmail.com](mailto:olivermanjengwa@gmail.com) or Felix Chisha in Zambia Mobile: + (260) 974 074 384; + (260) 963 258 535 Email: [felixchisha@airtelzm.blackberry.com](mailto:felixchisha@airtelzm.blackberry.com)

For additional information on the Project, you can visit the Project website:

<http://www.erm.com/KaribaDamESIA>



Annex B:5

## Site Notice (Shona)

## **CHIZIVISO CHE ENVIRONMENTAL NE SOCIAL IMPACT ASSESSMENT WE KUGADZIRWA KWE DHAMU REKARIBA**

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

ZRA iri kutarisira kugadzira uye kuvandudza Dhamu reKariba. ZRA inofanira kuva negwaro reESIA zvichiwirirana nemitemo yeZambia neZimbabwe. ZRA ndiyo yakadoma Environmental Resources Management (ERM) kuti iyite ESIA.

Dhamu reKariba roda kugadzirwa dziva kunorasirwa mvura '*spillway and plunge pool*'

Basa iri richaitwa pamakore manomwe-masere (7-8). Zvichaitwa ndezvizvi:

- kugadzirwa kwe nzira;
- kugadzira nekukudza dziva rinorasirwa mvura;
- kuvakwa kwe '*cofferdam*' kuzasi kwedziva rino rasisirwa mvura;
- kupomba mvura kubva mudziva rinorasirwa mvura ichienda munaZambezi;
- kuvakirwa kwegede rekudzivirira tsaona rinofanira kugona kuvhara zvakanaka
- kuvakwa kwema '*cofferdam*' kuita kuti abvise mvura muma '*sluice*' nguva yekuvaka;
- kuiswa kwema '*stop beam*' matsva panorasirwa mvura.

### **CHIZIVISO CHE VANHU VEMUNHARAUNDA**

MuZimbabwe mutemo weEMA (Chapter 20.27) wakadzikwa gore ra 2003 March mutemo unoti ano vhaka (ZRA) ano sungirwa kutora ESIA kuita basa iri. Izvi zvirimugwaro (Statutory Instrument 7 ya 2007).

Ndozvaita kuti ZRA ipe basa iri kuEnvironmental Resources Management (ERM) Southern Africa kuti iite ESIA sezvino bvumirwa nepasi rose.

Chiziviso ichi chinowudza veruzhinji nezvekutanga kwekutaaurirana ne vanhu vemunharaunda.

Munokumbirwa kuita misangano ne ESIA. Vanhu vemunharaunda vanofanira kuziviswa zvichada kuitwa uye kuchengetedzwa kwezviwanikwa nemagariro evanhu.

Kana zvamusinga dzwisisi nenyaya iyi tinyorereyi kana kuchaya runhare panhamba dziri pazasi.

Ms Janet Mkhabela, by email: [Janet.Mkhabela@erm.com](mailto:Janet.Mkhabela@erm.com) or by telephone on + (27) 21 681 5400; Oliver Manjengwa in Zimbabwe mobile + (263) 772 958 671 Email: [olivermanjengwa@gmail.com](mailto:olivermanjengwa@gmail.com) or Felix Chisha in Zambia Mobile: + (260) 974 074 384; + (260) 963 258 535 Email: [felixchisha@airtelzm.blackberry.com](mailto:felixchisha@airtelzm.blackberry.com)

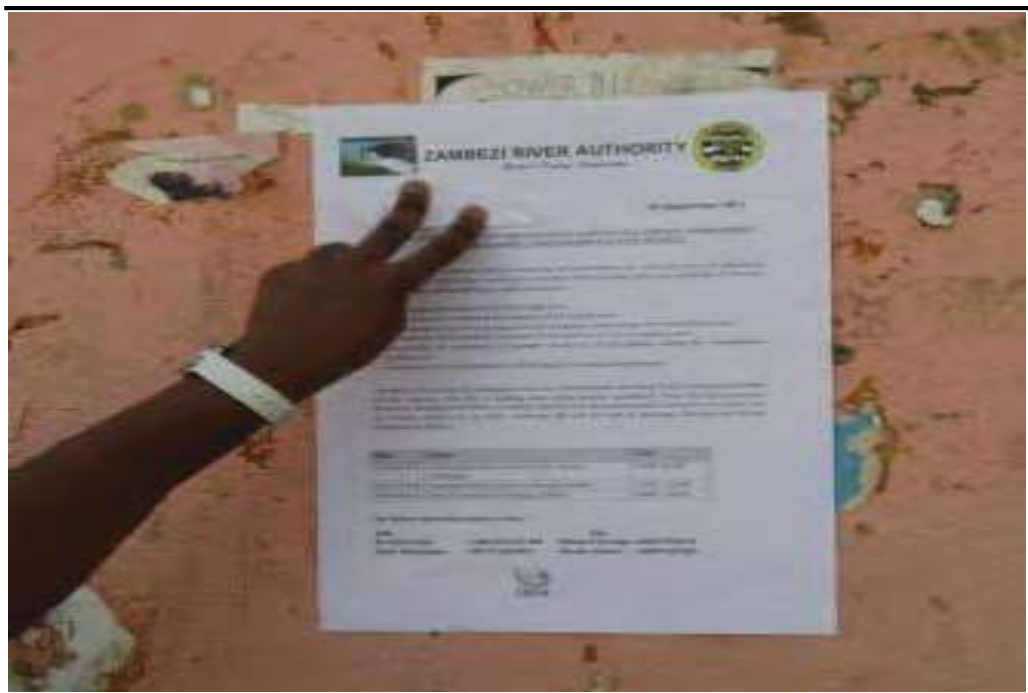
For additional information on the Project, you can visit the Project website:

<http://www.erm.com/KaribaDamESIA>



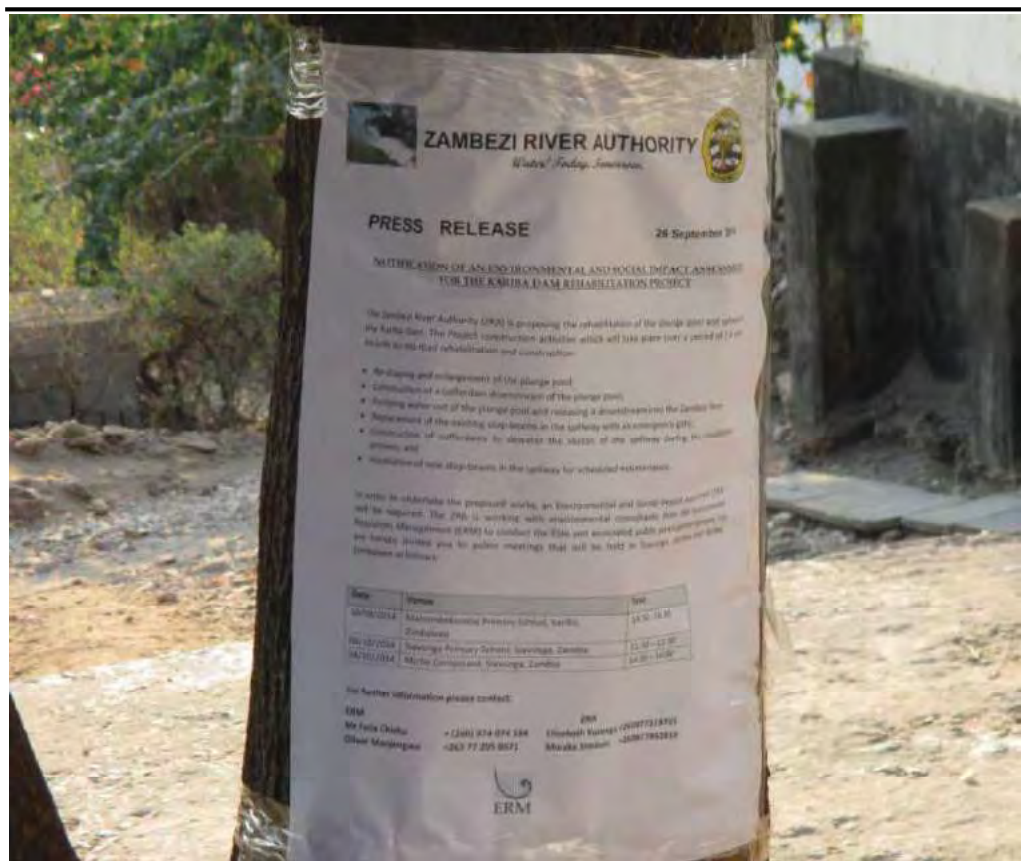
Annex B: 6

## Proof Site Notices









Annex B:7

## Proof of Advertisement (The Herald)



# Merc S65 AMG: Fast, luxurious sedan

Tinashe Makishi  
Motoring Reporter

HARARE was buzzing last week with news that United Family International Church founder Mr Emmanuel Makandiwa had just imported a Mercedes-Benz S65 AMG.

Many people were reported to have thronged Meikles Hotel after news filtered through that Prophet Makandiwa was there with his latest Mercedes that some motoring enthusiasts claimed to be the first of its kind in Africa.

I failed to verify the rumours but out of interest the writer saw it fit to do some research on the Mercedes-Benz S65 AMG, which had generated so much interest.

Mercedes-Benz offers some interesting insights into this vehicle, which is sitting on top of its sedan hierarchy.

The all-new V12-powered S65 combines sumptuous luxury with neck-snapping accelerations while adding a growing array of high-tech safety and convenience features.

Under the S65 AMG's long hood is a twin-turbocharged 6.0-litre V12 engine that generates 601 horsepower and an incredible 73.9 ft-lb of torque.

Power is sent to the rear wheels via a seven-speed automatic gearbox that can be controlled by shift paddles mounted behind the steering wheel.

The transmission offers three shifting modes: Controlled Efficiency (C), Sport (S) and Manual. Each mode is selected by pushing a button located on the centre console.

The potent drive train enables the sedan to reach 60 mph from a dead stop in 4.2 seconds and go on to a top speed that is electronically limited to 188 mph for the sake of safety. Fuel economy figures have not been published yet but Mercedes-Benz says the new S65 is noticeably more efficient than the outgoing model thanks to its two extra gears and a standard start/stop system.

Like all versions of the current-generation S-Class, the S65 AMG lost a considerable

amount of weight by adopting aluminium body panels all around.

A further 44 pounds has been shed by replacing both the starter battery and the backup battery with a single lithium-ion unit.

The S65 AMG appears nearly identical to the less powerful S63 AMG at first glance, but a closer look reveals the presence of high-gloss chrome on the front splitter, the rear air diffuser, the tail pipes the trim on the rocker panels and the radiator grille.

"V12 Bi-turbo" badges on the front fenders and 20-inch alloy wheels mounted on low-profile tires wrap up the aesthetic modifications. Overall, the S65 is undeniably designed to cater to buyers looking for a low-key way to travel in luxury.

Befitting its status as Mercedes flagship sedan, the S65 features a cabin decked out in diamond-quilted Nappa leather upholstery along with numerous AMG-specific parts including the front sport seats, the instrument cluster and the two-spoke steering wheel.

The AMG logo is embossed in the centre armrest to remind passengers they're not riding in a run-of-the-mill S-Class.

The S65 is equipped with two mammoth 12.3-inch thin-film transistor (TFT) screens that sit in front of the driver and on top of the centre stack.

The left-hand unit replaces the conventional instrument cluster, while the right-hand screen displays climate, entertainment and Google maps-integrated navigation information.

Buyers can choose whether they want a rear bench seat or executive-style reclining rear seats that, like the front thrones, can be outfitted with heating, ventilating and "hot stone" massaging systems.

Further coddling rear seat occupants are available features such as individual rear screens with wireless audio headsets, pillow heat mats, cooling/heating cup holders and fold out tray tables.



2015 - Mercedes-Benz S65 AMG

Topping it all off are industry-first heated centre and door panel mounted armrests.

Making their debut in the S65 are two new-to-the-class technologies: a heads-up display and a centre console-mounted touch pad that allows users to control the infotainment system through the use of smartphone-style flick, swipe and zoom gestures.

The system also recognises finger-written letters, numbers and special characters for navigation destination and contact saving.

The S65 AMG comes standard with a long list of features including 20-inch rims, power door locks, a universal garage door

opener, an auto-dimming rear-view mirror, heated door mirrors, rain-sensing wipers, real wood trim on the dashboard, the centre console and the door panels, heated and cooled power-adjustable front seats with a memory function, dual-zone A/C, a 1,640-watt sound system with 24 speakers, navigation with voice controls, a sunroof, tinted windows, intelligent cruise control, a storage compartment in the rear arm rest and a first-aid kit.

The S65 AMG can be spruced up with colours and interior finishes from Mercedes. Design line, an AMG Exterior Carbon Fiber appearance package, carbon fiber trim on the out-

side, an electronically heated windshield, a split-view front entertainment system and an Exclusive Rear Seat Package that adds dual power rear seats with folding tables as well as heated and cooled cupholders.

As expected, the S65 AMG comes with a comprehensive array of safety features including dual front airbags, front and rear side airbags, side curtain airbags, active lane keeping, night vision assist and adaptive cruise control.

The Mercedes-Benz S65 AMG competes against equally expensive super-and-lux such as the Bentley Flying Spur and the less powerful Aston Martin Rapide S.



198 Erith Road, Willowvale, Harare

## SHERIFF OF THE HIGH COURT OF ZIMBABWE SALE-IN-EXECUTION

Daily instructed by the Sheriff of the High Court of Zimbabwe, we shall sell by Public Auction the following assets within our premises on Thursday, 9<sup>th</sup> October, 2014 at 2:30pm.

**TRADE FINANCE COMPANY VS JOSEPH R. MUTENDEKEZI, CASE NO. HC8786/11.** Imperial deep freeze, Capri single door refrigerator, 4 pce brown L/suite, Philips television, SVA television, 5 pce glass topped coffee table, 4 pce WKS radio and 2 speakers, 11 pce dining suite, 2 x chest of drawers, dressing table, Emax radio and 2 speakers and steel room divider.

**TAKAWIRA MASHINGAIDZE & 7 OTHERS VS BLUE MARK TYRES PVT LTD, CASE NO. HC9713/13.** Kipor 17/50 KVA generator, tools box, 2 x small computer desks, reception desk, 2 drawer wooden cabinet, 4 x bookshelves, 2 x hammer, 6 x star wheel spanners, medical aid box, 32 x boxes of tubes, 8 x grinder, cabinet, 3 x bookshelves, 2 x black office chairs, executive swivel chair, 2 x swivel chairs, small 2 drawer cabinet, 2 door wooden cabinet, 3 x TV stands, 2 seater bench, diamond desk, Karcher Hoover, 6 x vehicle stands, 2 x CPUs and keyboard, computer stand, tyre lever, 2 x decorative lights, 2 x chairs, 7 x rims, 31 x pipes and lot rubber mats.

**CONSTRUCTION INDUSTRY PENSION FUND VS MUDAMBANUKI AND ASSOCIATES, CASE NO. HC224/12.** Capri d/door refrigerator, Dely deep freeze, 3 pce TV stand, Sony plasma television, 2 pce maroon leather L/suite, 6 pce beige leather L/suite, Capri microwave, 2 pce dresser, 7 x dining chairs and glass topped coffee table.

**ONE VS TOOL PROOF ENTERPRISES AND PAULINE MUTAMBO, CASE NO. HC1120/13.** KIC d/door refrigerator, Imperial d/door refrigerator, Dely microwave, wooden display unit, 4 pce L/suite, coffee table, Tedelen television and wooden stool.

**STANDARD TELEPHONE AND CABLES (SUCCESSORS) PVT LTD VS AIR DISTRIBUTION P/L, CASE NO. HC3160/12.** Samsung plasma television, wooden cabinet, 2 x desks, 6 drawer cabinet, Hp laptop, 2 pce computer set, Hp officejet 4500 printer, 2 x Hp computer energy servers, television monitor, Hp printer, Whirlpool single door refrigerator, wooden coffee table, 2 x arm chairs, 3 x swivel chairs and 2 x bar stools.

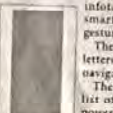
**PG MERCHANDISING LTD T/A PG TIMBERS VS JATWORK ENTERPRISES P/L T/A JATWORK HOLDINGS, CASE NO. HC1215/12.** 4 drawer wooden filing cabinet, computer desk, Hp desktop printer, swivel chair and 3 office chairs.

**ROLOMON MUGWIRA VS DR WONDER BANDE, CASE NO. HC2916/14.** 6 pce cream leather L/suite, 3 pce cream and brown sofa, Sony plasma, Toshiba television, Panasonic microwave, 3 x chairs and 2 x glass coffee tables.

**GOLD DRIVEN INVESTMENTS P/L VS FRANCISCA TENDAYI NYARADZA, CASE NO. HC5426/11.** Capri deep freeze, Capri d/door refrigerator, Hp printer all in one printer, LG television, Daewoo television and Karcher microwave.

**FABRIZIO NAZARE VS GRASHAM CHAVUTA, CASE NO. HC1458/11.** 3 pce, brown L/suite, 2 seater brown L/suite, Samsung plasma television, Hummel hotpot coffee maker, Kenwood mixer, Panasonic radio & 6 giga sound speakers, TV stand with 3 glasses, Capri deep freeze and coffee table.

Deposit: \$500  
Terms: Cash/RTGS  
Viewing: Prior to sale  
Enquiries: 0712 746270, 0772 373647, 04-860475



198 Erith Road, Willowvale, Harare

## SHERIFF OF THE HIGH COURT OF ZIMBABWE SALE-IN-EXECUTION

Daily instructed by the Sheriff of the High Court of Zimbabwe, we shall sell by Public Auction the following vehicles at No. 209 Midlands Close, Waterfalls on Saturday, 11<sup>th</sup> October 2014 at 10 am.

**CONSTRUCTION INDUSTRY PENSION FUND VS MUDAMBANUKI AND ASSOCIATES, CASE NO. HC224/12 - Mercedes Benz E230- Reg No ANF 6431**

**TAKAWIRA MASHINGAIDZE & 7 OTHERS VS BLUE MARK TYRES PVT LTD, CASE NO. HC9713/13 - Mazda Ruster- Reg No B191AJV**

Deposit: \$1000  
Terms: Cash/RTGS  
Viewing: Prior to sale  
Enquiries: 0712 746270, 0772 373647, 04-860475

## MUNICIPALITY OF KARIBA



### LEASE OF A PUBLIC SLIPWAY AND HARBOUR

Notice is hereby given that the Municipality of Kariba has in terms of section 152 of the Urban Councils Act (Chapter 29:15), resolved to lease the Kariba People's Project Public Slipway to Turtie Creek Investments (Pvt) Ltd (Turtie Creek) for an annual fee of US\$4240.

Turtie Creek Investments (Pvt) Ltd (Turtie Creek) will use the slip way to provide access for its employees, stakeholders and clients to the Kariba People's Project and will, with the permission of the Municipality of Kariba, erect ancillary facilities in the vicinity of the slipway for the convenience of its employees, stakeholders, clients and the public who may wish to use the slipway.

Public access to the slipway will be maintained for a fee fixed from time to time with the approval of the Municipality of Kariba.

A copy of the resolution (resolution C215/14) is open for inspection during office hours at the municipal offices, Old Administration Block, Kariba Heights, Kariba, for a period of twenty one days from the date of the last publication of this advertisement that is on or before Friday, 24th October, 2014.

Any person who wishes to object to the proposal may lodge his or her objection with the Town Clerk within a period of twenty one days from the last date of the publication of this advertisement, that is, on or before Friday, 24th October, 2014.

G. W. TOMBO  
TOWN CLERK  
MUNICIPALITY OF KARIBA  
P.O. BOX 130  
KARIBA

## NOTIFICATION OF AN ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT FOR THE KARIBA DAM INFRASTRUCTURE REHABILITATION PROJECT

The Kariba Dam is located on the Zambezi River, on the border between Zambia and Zimbabwe. It is situated 130 km south-southwest of Lusaka (Zambia) and 270 km north-west of Harare (Zimbabwe). The Kariba Dam is managed and operated by the Zambezi River Authority (ZRA), a statutory body established in 1967 and wholly owned and controlled by the Governments of Zambia and Zimbabwe. ZRA is now commencing the rehabilitation of the Kariba Dam. The ZRA is preparing the Rehabilitation Project (RP) for the Kariba Dam, which includes the rehabilitation of the dam, the construction of a new spillway and the construction of a new powerhouse.

Project construction activities will take place over a period of 5-6 years and activities include:

- removal and replacement of the dam crest;
- reconstruction of the dam crest and the construction of a new spillway;
- replacement of the existing spillway with a new spillway;
- replacement of the existing powerhouse with a new powerhouse;
- reconstruction of the powerhouse and the construction of a new powerhouse;
- installation of new spillway gates in the spillway for scheduled maintenance.

## PUBLIC PARTICIPATION PROCESS

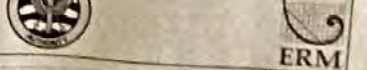
The ZRA requires an EISA to be undertaken in accordance with the environmental regulations of Zambia (Environmental Management Act, 12 of 2011) and Zimbabwe (Environmental Management Act, 13 of 2002) before permission may be granted to construct the RP with the Kariba Dam.

ZRA appointed Environmental Resources Management (ERM) Zimbabwe Africa to conduct the EISA and associated public participation process.

This advertisement serves as notification of the commencement of the public participation process in the EISA. However, you are invited to participate in the public participation process in the EISA and to provide input to the EISA process. You will have the opportunity to comment on the EISA and submit your comments to the EISA process.

To register as a stakeholder, you can contact Mr. James Mubvumba, by email: [james.mubvumba@erm.co.zw](mailto:james.mubvumba@erm.co.zw) or by telephone on 0772 141 5400 (Zimbabwe) or 00263 772 141 5400 (Zimbabwe). You can also contact Mr. James Mubvumba by email: [james.mubvumba@erm.co.zw](mailto:james.mubvumba@erm.co.zw) or by telephone on 0772 141 5400 (Zimbabwe) or 00263 772 141 5400 (Zimbabwe).

The additional information on the Project, you can visit the Project website: <http://www.karibadam.co.zw>



## THE HERALD CLASSIFIED

e-mail: [theherald@zimpapers.co.zw](mailto:theherald@zimpapers.co.zw)



Annex B:8

## Proof Advertisement (The Daily Mail)

## Prayer time



VISITING Prophet Uebert Angel lays hands on scribes on arrival at Kenneth Kaunda International Airport on Tuesday.  
Picture: JACKSON WASAMUNU

# UNIP women lock out president

STEVEN MVULA  
Lusaka

A GROUP of UNIP youths and women on Monday stormed the party offices in Lusaka and locked out their president Tilyeni Kaunda and his deputy Njekwa Anamela. The members accused Mr Kaunda and Mr Anamela of allegedly failing to organise the party and to win elections. But Mr Kaunda vowed not to resign until the UNIP national congress asks him to step aside.

The women and youths led by UNIP national women's secretary Beatrice Kayuni said in a walk-in interview on Monday that Mr Kaunda is a "lukewarm" leader who has failed to win a single by-election.

Ms Kayuni, who is also Lusaka Province women's chairperson said: "We

want an interim committee in place. Decisions of the party are only made by the president and his vice without the involvement of the central committee."

Ms Kayuni alleged that Mr Kaunda has lost touch with the grass roots and the central committee has not held any congress for the last 13 years.

But Mr Kaunda said UNIP started a political audit in April and will soon convene a national congress to hold elections as soon as funds are available.

"Comrade, we are in tune with the people. Our members need to be patient just like our President Michael Sata patiently waited for his time to rule this country," he said.

On calls for him to step down, Mr Kaunda said: "People at the congress will decide. We are a democratic party and anything apart from



KAUNDA

discipline is chaos." UNIP was formed in 1959 and it ruled Zambia for 27 years under Kenneth Kaunda from independence in 1964 to 1991.

## Local authorities' debt projected at K1bn

NANCY MWAPE  
Livingstone

GOVERNMENT has projected that local authorities nationwide will incur debt amounting to K1 billion by end of the year.

Ministry of Local Government and Housing

permanent secretary Stanford Msichili said 93 percent of the debt is money owed to council workers.

"In other words, councils were unable to remit to Local Authorities Superannuation Fund (LASF) and other statutory contributions including Zambia Revenue Authority (ZRA) and National Pensions Scheme Authority (NAPSA)," he said.

Mr Msichili said this in Livingstone on Tuesday at the 58th Local Government Association of Zambia (LGAZ) annual conference.

He said the greatest concern relates to LASF because it is not only unable to pay retirees but also the financial cost risks keep increasing, which may lead to insolvency.

Commenting on Constituency Development

Fund (CDF), Mr Msichili suggested that the fund be scrapped and directed to capital projects.

He said there is urgent need to revisit the 2006 CDF management guidelines.

Mr Msichili is also concerned that local authorities are not making appreciable efforts in addressing and correcting the shortcomings revealed in the Auditor General's reports.

### FUNDRAISING DINNER DANCE

#### ROMA GIRLS SECONDARY SCHOOL

Will hold a Fundraising Dinner Dance on Friday, 3rd October, 2014.

Charges: K300.00 per ticket  
Venue: Intercontinental Hotel

Time: 19:30 - 22:00 hours.

mobile: 0966-847038

## Malawi to assist curb illegal timber trade

KABANDA CHULU  
Lusaka

MALAWIAN High Commissioner to Zambia David Bandawe says his country is ready to help Zambia to curb illegal trade in forestry products such as 'mukula' tree species.

And Mr Banda said plans are underway to establish a one-stop border at Mwami to improve trade between Zambia and Malawi.

Mr Bandawe said in an interview in Lusaka that Malawi will not allow illegally harvested tree species to be transported through that country.

"We are cooperating with Zambia, actually there was

one consignment of trucks that had entered Malawi and were intercepted and impounded before reaching Lilongwe and authorities in Zambia were informed about this incident.

"But officials from both countries need to work together to stop this illegal trade or else we shall lose these natural tree species that take a lot of time to mature," Mr Banda said.

He said Malawi is collaborating with Zambia in many areas.

Mr Banda, who is also Malawi's permanent representative to the Common Market for Eastern and Southern Africa (COMESA), said the one-stop border at Mwami will be established under a regional framework.

## 'Stop dogs street vending'

SYLVESTER CHISHIMBA  
Lusaka

LUSAKA City Council (LCC) has partnered with Lusaka Welfare Society (LAWWS) to prosecute individuals involved in the sale of dogs and other pets at undesignated places.

LCC director of public health Greenford Sikazwe said the increasing numbers of vendors illegally selling dogs and other pets on the streets is worrying.

Mr Sikazwe said the partnership between LCC and LAWWS is also aimed at controlling the dog population and to enforce the protection and welfare of animals in Lusaka.

Mr Sikazwe said the partnership will jointly enforce existing laws such as the Prevention of Animal Cruelty Act Chapter 245 and the Control of Dogs Act Chapter 247 of the Laws of Zambia.

Mr Sikazwe said any abuse, neglect, animal cruelty as well as selling of dogs and puppies in undesignated places such as Manda Hill, Kabulonga traffic lights, Makeni junction and others will result in the prosecution of individuals involved.

And LAWWS chairperson Priddy Melwani said the sale of puppies on the streets is top on the agenda because most animals are stolen and later sold at higher prices.

theclinicgroup  
Integrated healthcare

### Vacancy – Radiographer / Sonographer

The Advertiser is looking for a Radiographer / Sonographer; candidates who would like to apply for the position in Swaziland, Manzini Clinic Private Hospital.

She/he needs to fulfill the following criteria.

#### Key Skills & Requirements

- Degree / Diploma in Radiography
- 5 years diagnostic radiography experience
- 3-5 years diagnostic ultrasound experience
- Private hospital experience

Interested applicants should e-mail their CV's to, [welcome@clinicgrp.co.sz](mailto:welcome@clinicgrp.co.sz)

### NOTIFICATION OF AN ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT FOR THE KARIBA DAM INFRASTRUCTURE REHABILITATION PROJECT

The Kariba Dam is located on the Zambezi River, on the border between Zambia and Zimbabwe. It is situated 130 km south-south-east of Lusaka (Zambia) and 280 km north-west of Harare (Zimbabwe). The Kariba Dam is managed and operated by the Zambezi River Authority (ZRA), a statutory body established in 1987 and jointly and equally owned by the Governments of Zambia and Zimbabwe. ZRA is also responsible for overseeing the further development of the Zambezi River. The ZRA is proposing the rehabilitation of some of the support infrastructure of the Kariba Dam, namely the plunge pool and spillway.

Project construction activities will take place over a period of 7-8 years and activities include:

- access road rehabilitation and construction;
- re-shaping and enlargement of the plunge pool;
- construction of cofferdam downstream of the plunge pool;
- pumping water out of the plunge pool and releasing it downstream in the Zambezi river;
- replacement of the existing stopbanks in the spillway with an emergency gate;
- construction of cofferdams to dewater the sluices of the spillway during the rehabilitation process; and
- installation of new stopbanks in the spillway for scheduled maintenance.

#### PUBLIC PARTICIPATION PROCESS

The ZRA require an ESIA to be undertaken in accordance with the environmental regulations of Zambia (Environmental Management Act, 12 of 2011) and Zimbabwe (Environmental Management Act, 13 of 2002) before permission may be granted to continue with the works subject to the findings of the ESIA.

ZRA appointed Environmental Resources Management (ERM) Southern Africa as the environmental consultant to conduct the ESIA and associated public participation process.

This advertisement serves as notification of the commencement of the public participation process for the ESIA. Herewith you are invited to register as a stakeholder and to participate in the ESIA and public participation processes. As a stakeholder you will be kept informed of the ESIA process, you will have the opportunity to comment on the ESIA and raise your issues/concerns about the Project.

To register as a stakeholder, you can contact:

Ms Janet Mkhabela, by email: [Janet.Mkhabela@ermsa.com](mailto:Janet.Mkhabela@ermsa.com) or by telephone on + (27) 21 681 5400; Oliver Marjengwa in Zimbabwe mobile: + (263) 772 988 671 Email: [olivermarjengwa@gmail.com](mailto:olivermarjengwa@gmail.com) or Felix Chishima in Zambia Mobile: + (260) 974 074 384; + (260) 963 258 535 Email: [felixchishima@airtelzambia.com](mailto:felixchishima@airtelzambia.com)

For additional information on the Project, you can visit the Project website: <http://www.erm.com/KaribaDamESIA>



Standard Chartered

## Customer Notice

Tariff revision

We wish to advise all our esteemed customers that our service tariffs will be revised effective 1st November, 2014.

For more information, contact your Relationship Manager, call 5247 (Toll-free on all mobile networks) or visit your nearest branch.

here for good

Annex B:9

## Project Presentation

# Kariba Dam Rehabilitation: Environmental & Social Impact Assessment (ESIA)



# Introduction

---

## Who is the ZRA?

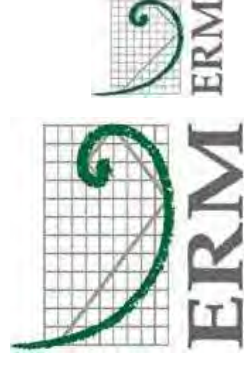
- The Zambezi River Authority was established in 1987.
- It is a statutory body jointly and equally owned by the Governments of Zambia and Zimbabwe.
- It is responsible for overseeing the development of the Zambezi River.



82

The Environmental Resources Management (ERM) is the consulting firm appointed to undertake the project ESIA

- International environmental consultancy with 3,600 staff in 130 offices in 40 countries around the world
- Working with Oliver Manjengwa (Zimbabwe); Felix Chisha (Zambia)





# Purpose of this Presentation

---

- To provide stakeholders with information about the proposed project, the project environment and the ESIA process;
- To gather information from the project area that can be used to inform project planning;
- To assist in the identification of concerns and issues regarding the proposed project and the ESIA process;
- To capture stakeholder comments and suggestions on alternatives;
- To confirm issues identified in the public domain and ensure that where relevant these are investigated further through technical studies;
- To report back on the findings of the ESIA and proposed management measures; and
- To meet legislative requirements regarding stakeholder engagement.





# The Proposed Project and Rationale

---

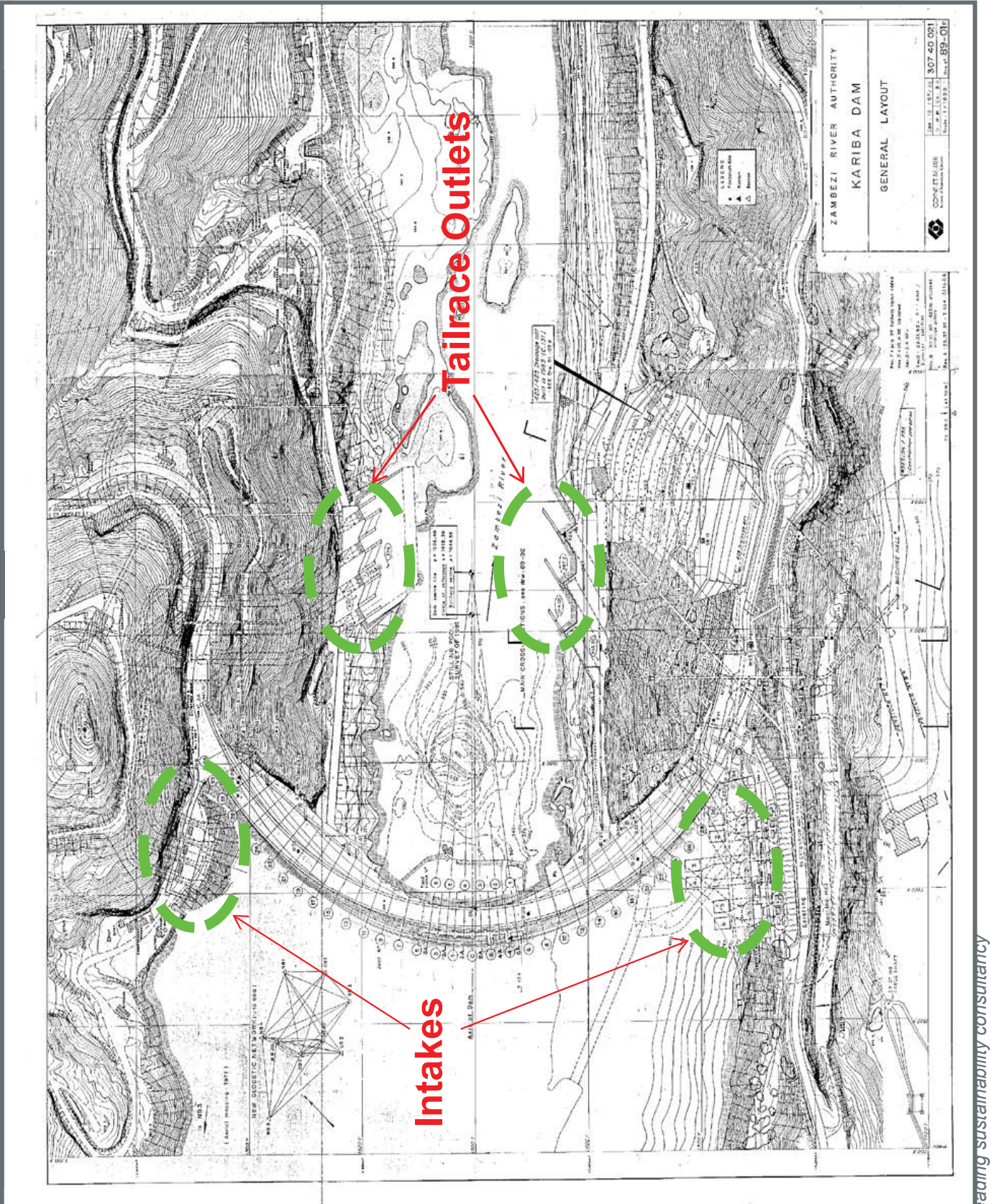
Dam Safety concerns = motivation

Kariba Dam was constructed between 1956 and 1959

- It supplies water to two underground hydropower plants located on the north (left) bank in Zambia and on the south (right) bank in Zimbabwe.
- Jointly, the power stations have the capacity of 1,830 MW, once the new turbines have been installed in SB an addition 300MW will be produced =2,130MW
- The dam and associated infrastructure are over 50 years old as such needs an upgrade of some essential hydro-electrical equipment.
- The ZRA is proposing the reshaping and enlargement of the plunge pool and rehabilitation of the spillway gates

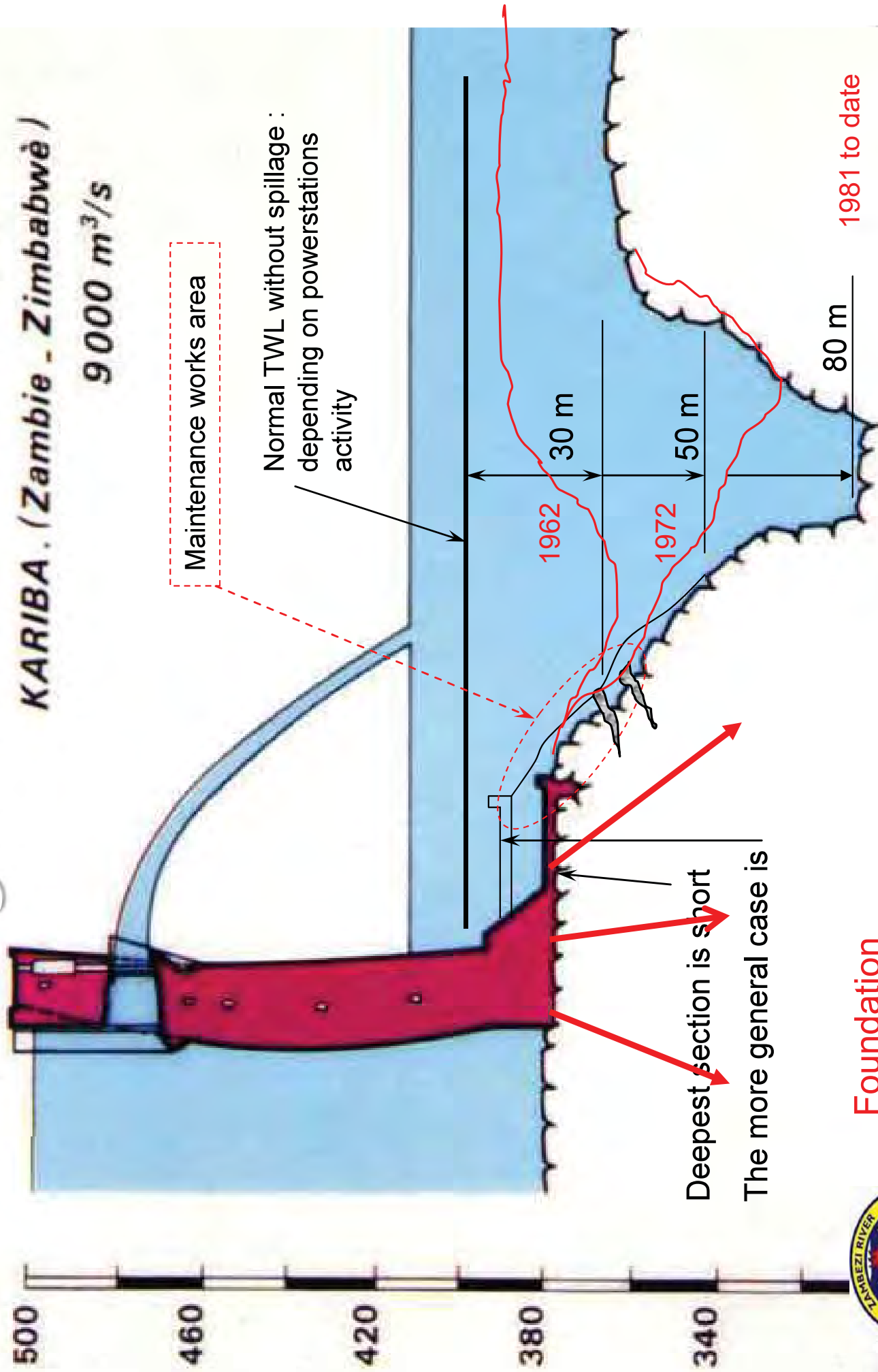


# General Layout of Dam & Power Stations





# Plunge Pool Features

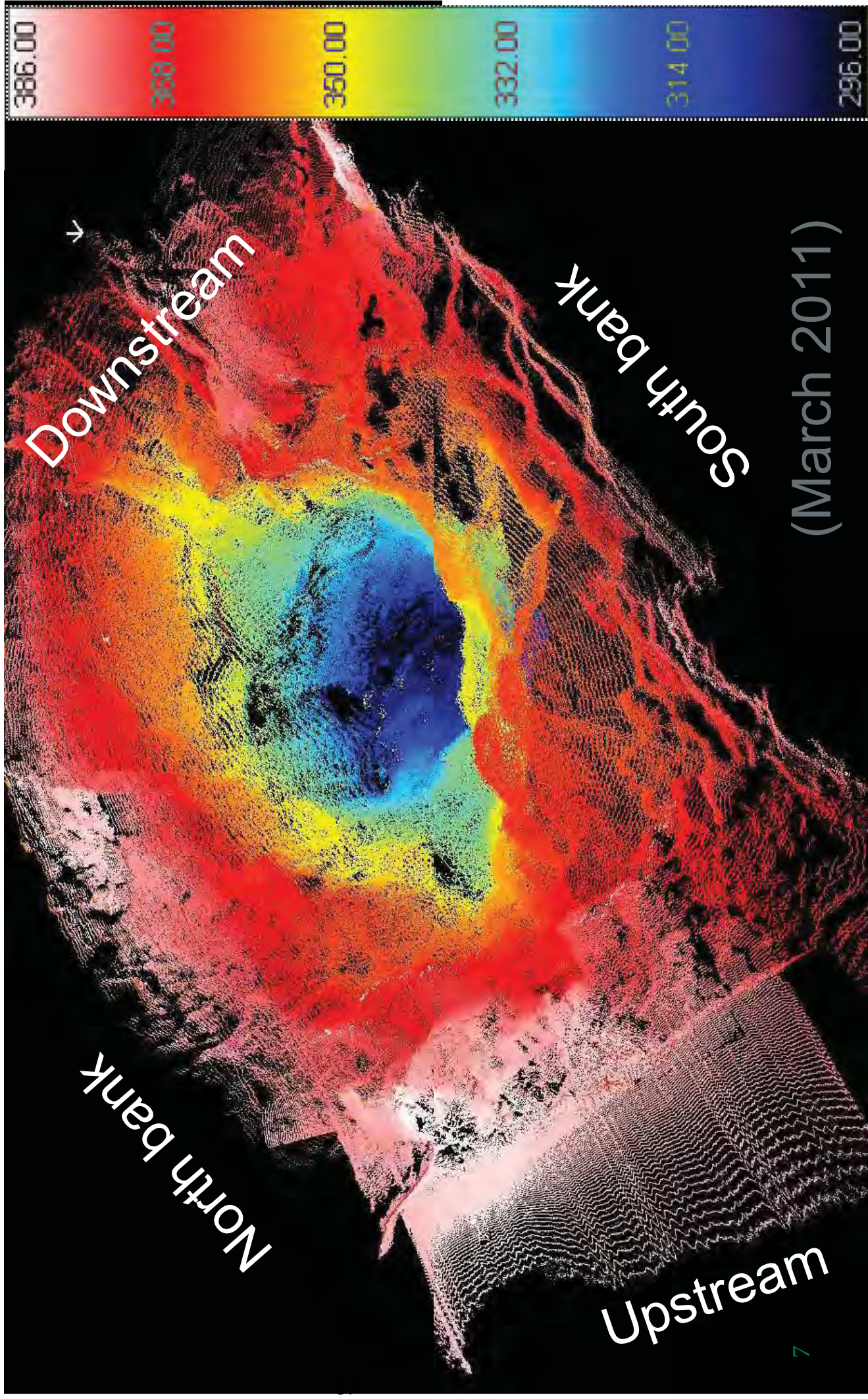


Foundation  
Loads





# Results from Multi-beam Bathymetric Survey of the Plunge Pool





# Physical model: Testing in progress

---



# Reshaped Geometry



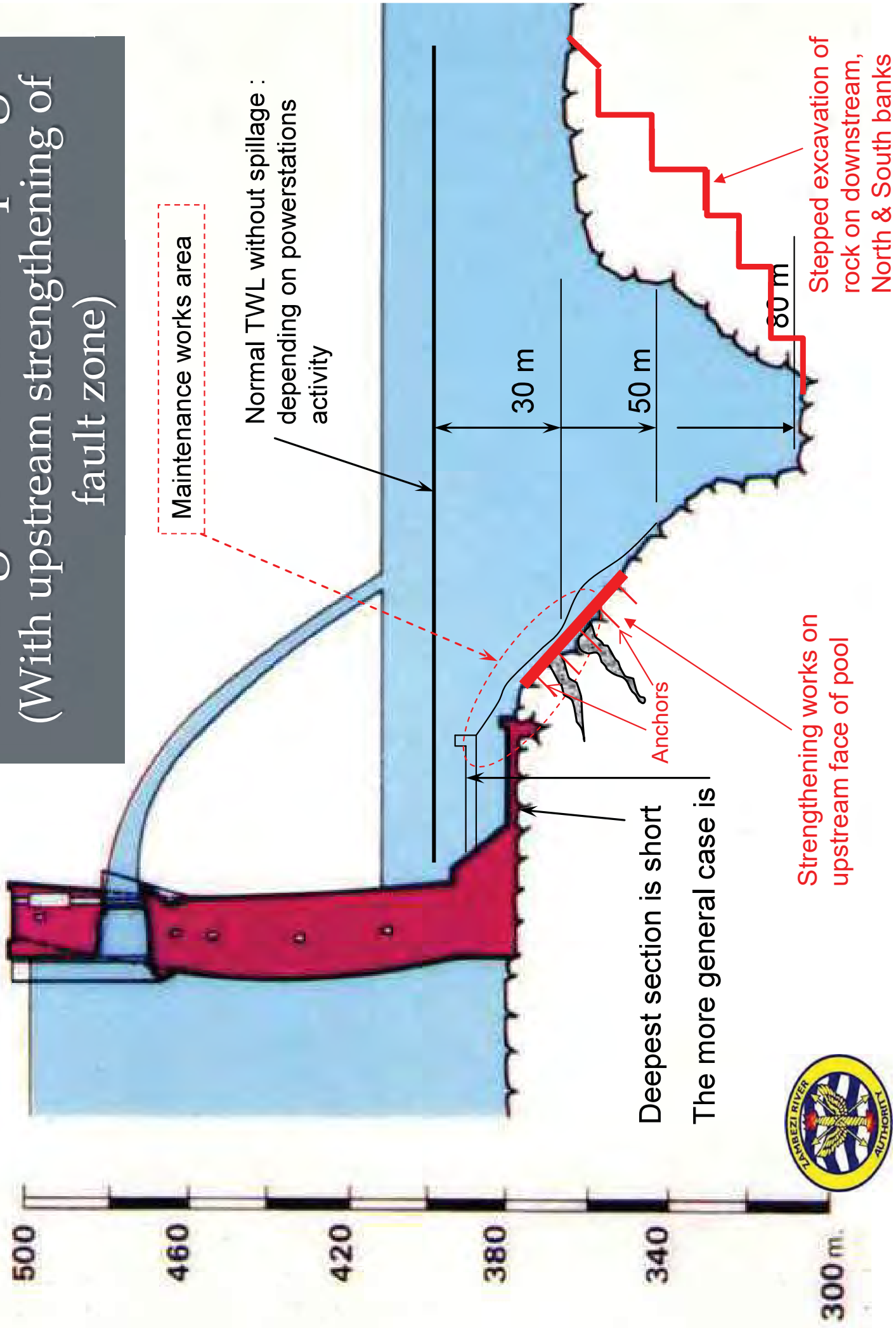
THE WORLD'S LEADING SUSTAINABILITY CONSULTANCY



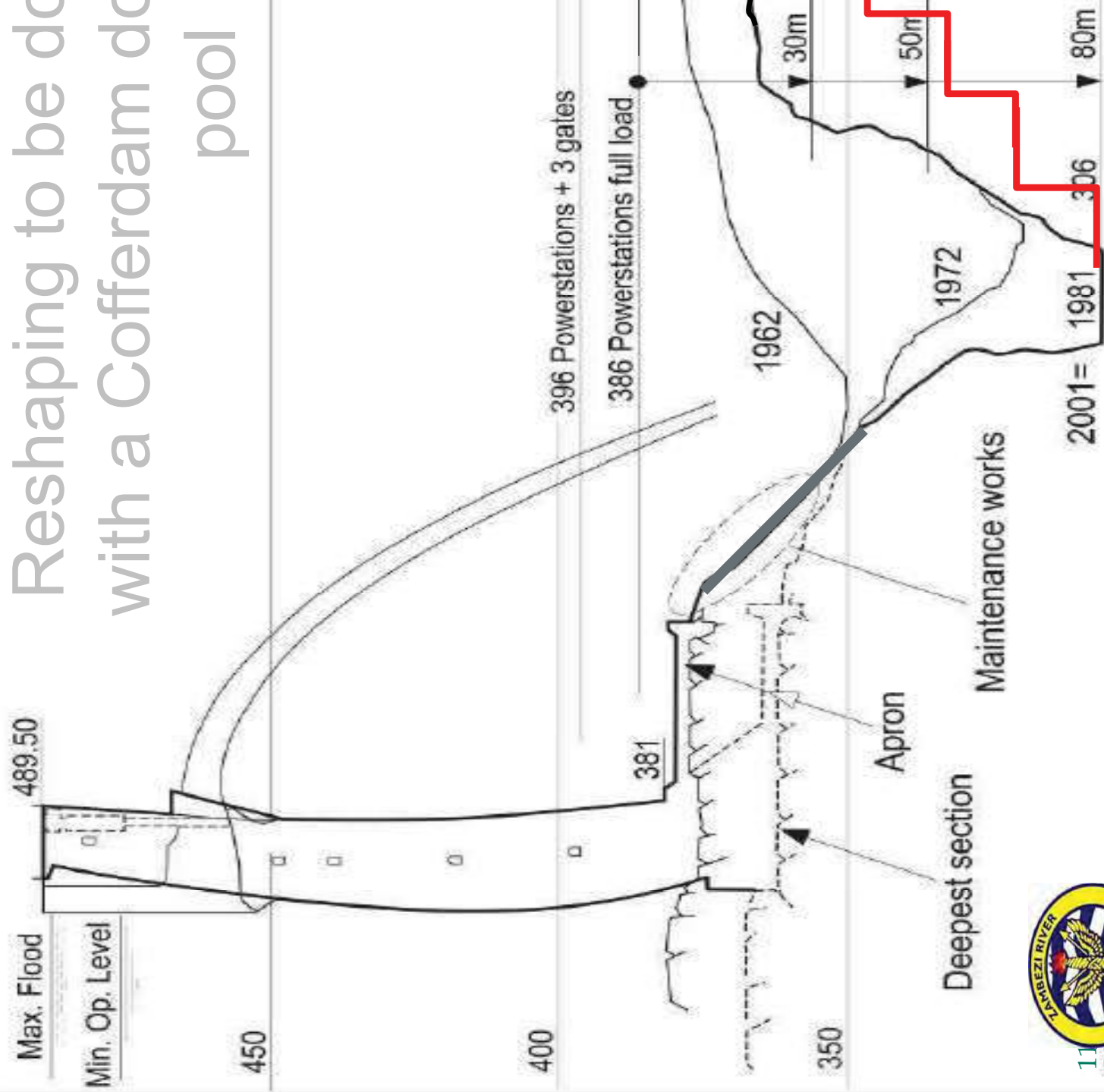
ENVI



# Plunge Pool Reshaping (With upstream strengthening of fault zone)



# Reshaping to be done in the dry with a Cofferdam down stream of pool



Stepped excavation of  
rock on downstream,  
North & South banks



# Plunge Pool Works

Enlargement = excavation of 300,000 m<sup>3</sup> of bedrock

Construction of Secondary Roads

Assemble and installation of cofferdam downstream – Plunge Pool

Construction timeframe 5 years – non-spillage (7 months =May-November)



## Method of works:

- Controlled open air Blasting: cautiously planned sequence of works to damage to the surrounding infrastructure
- Monitoring: seismograph, dam and bank movements, ground water levels
- Associated infrastructure:
  - secondary roads, cofferdam, & waste rock dump site.



# SPILLWAY REFRUBISHMENT

# Essential Steps to arrive at Solution

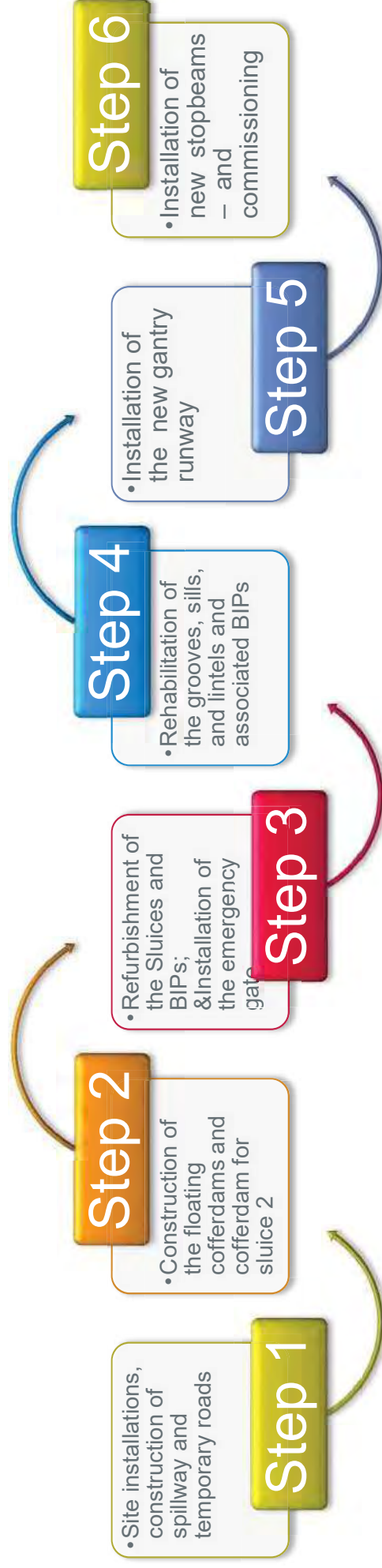
---

- Design, fabrication and supply of cofferdam for upstream sluice closure
- replacement of secondary concrete and Built-in-Parts in stopbeam slots (in the dry)  $\Rightarrow$  requires cofferdam
- design, fabrication and supply of emergency gate
- design, fabrication and supply of new gantry
- modification of crest civil works to support new gantry





# Spillway video



---

# Emergency Gate and Gantry

# Safety Concerns

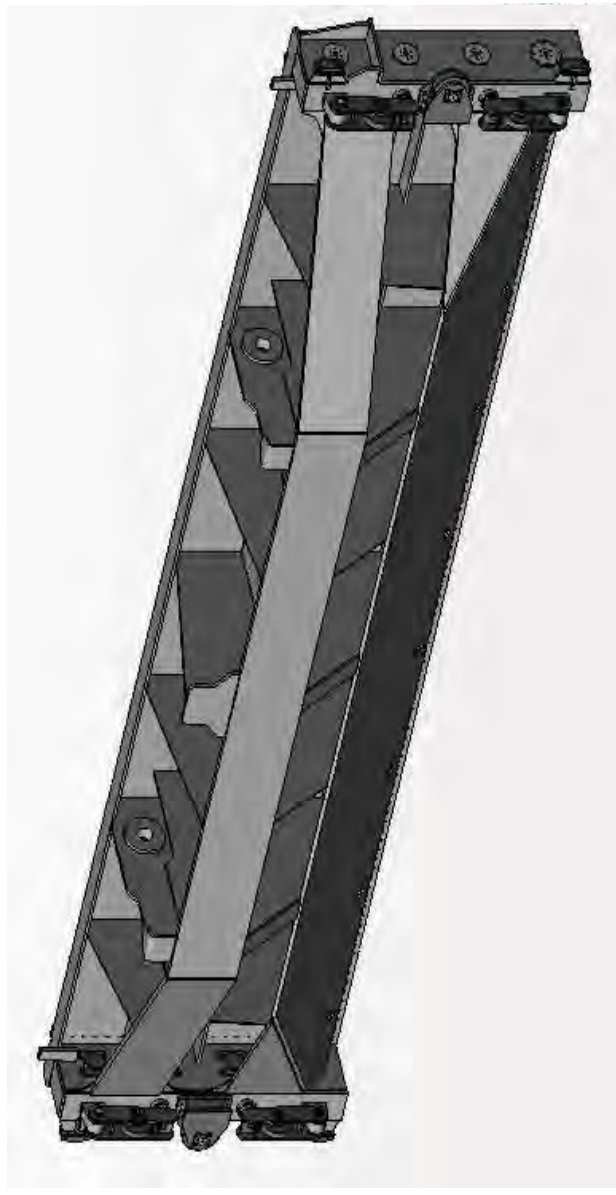
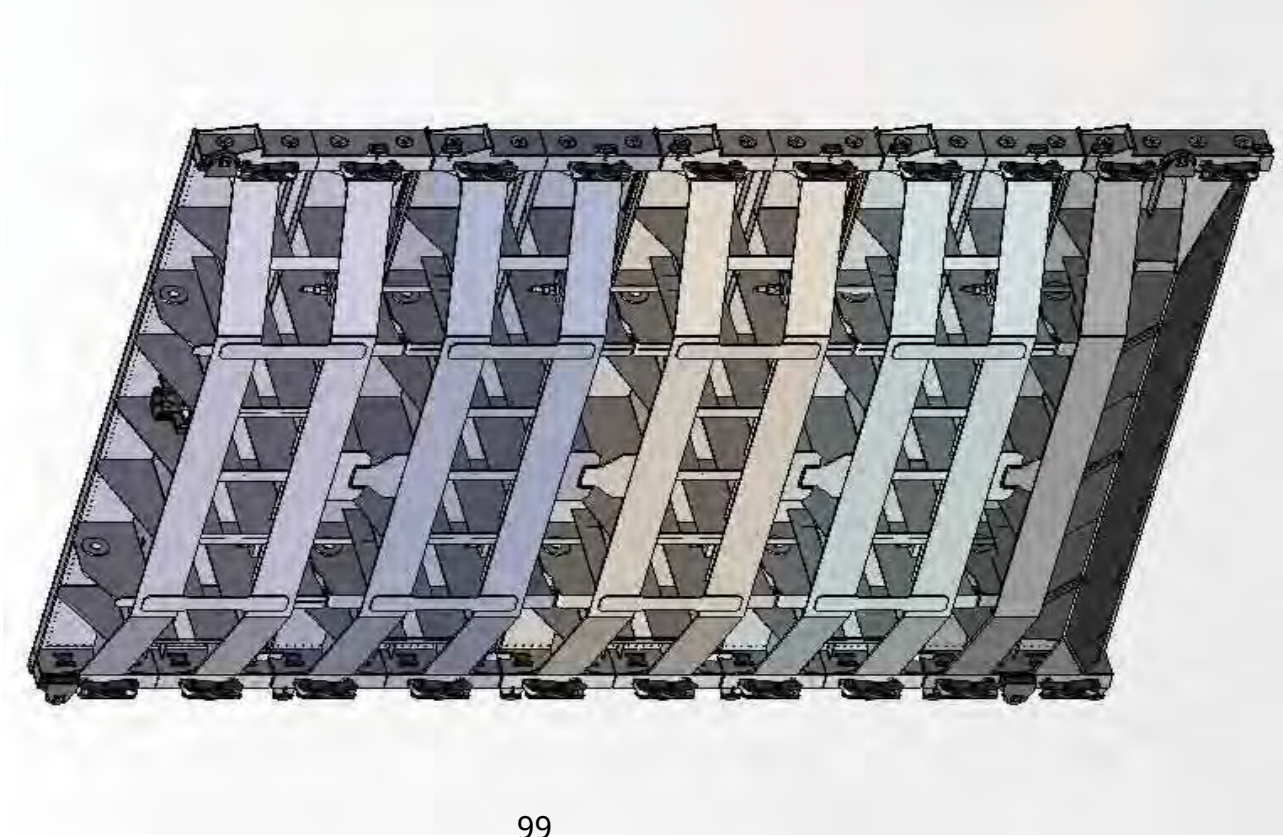
## (emergency sluice closure)

	Safety Concern	Effect	Prescribed Remedial Measures
2b	<p>General aging of the dam concrete:</p> <ul style="list-style-type: none"> <li>Inability to close sluice upstream in the event of gate failure (ie no emergency sluice closure)</li> </ul>	<ul style="list-style-type: none"> <li>Uncontrolled release of water</li> <li>Loss of power generation due to emptying of reservoir.</li> </ul>	<p><b>Spillway refurbishment</b></p> <p>Design, fabrication and installation of Emergency Gate, Gantry and Associated Works</p>



# Emergency Gate

- Total weight : 160 T
- 5 elements of approximately 32 T each
- Assembled with 16 bars and bolts
- 4 days to assemble it



# RISK OF INACTION

---

## (Consequences of Dam Failure)

Loss of power generation at Cahora Bassa and possible loss of dam.

- Failure of Cahora Bassa would compound the problem. Worst case scenario will be failure of Kariba and Cahora Bassa when run off is at its peak with the river at peak.

Loss of wildlife and wildlife habitat in Lower Zambezi

- in Mozambique, Zambia and Zimbabwe (Mana Pools is a UNESCO world heritage site)

Loss of socio-economic activities on the lake  
(fisheries, tourism etc)



# THANK YOU

---

## OPEN DISCUSSION





Annex B:10

## Issues and Concerns Log

Consultation Type	Date	Type of Stakeholders	Organisation/ Community	Country	ERM Representatives	Discussion Areas	Issue Description	Initial Response/Action Description	Updated Response/Action Description	Final Response/Action Description	Additional Notes
Authorities Meeting	24-Sep-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Other	Care should be taken when consulting the local population due to the historical issues from the 1950s resettlement.	Noted.			
Authorities Meeting	26-Sep-14	Government	Zimbabwe Parks and Wildlife	Zimbabwe	Janet, Felix, Oliver, Mwaka	Plunge Pool Works	What will happen to the water that will be pumped out of the pool?	It will be released back into the river.			
Authorities Meeting	26-Sep-14	Government	Zimbabwe Parks and Wildlife	Zimbabwe	Janet, Felix, Oliver, Mwaka	Dam Wall Safety	What is the catchment area of the works?	That's not true. But the plunge pool poses a high risk to the integrity of the dam wall.			
Authorities Meeting - District Administrator - Zimbabwe	26-Sep-14	Government	Kariba District Authorities	Zimbabwe	Janet, Felix, Oliver, Elizabeth	Catchment Area	What is the catchment area of the works?	The dam wall is located within sub-basin 5. This then forms part of the catchment area for the works. The ESA catchment area comprises of the first 5km radius from dam wall, and up to 20 km downstream (specifically for aquatic ecology).			
Stakeholder	26-Sep-14	Government	National Parks and Wildlife Authority	Zimbabwe	Oliver, Janet, Felix, Sue, Mwaka	Plunge Pool Works	What effects will the cofferdam have downstream?	The cofferdam will be there to keep the water from the tailrace outlets out of the plunge pool area. As such it is not expected to have any effect on the downstream.			
Enquiry by Stakeholder	27-Sep-14	Community Member	Simba Mandigaia	Zimbabwe	Oliver	Public Meeting	When will the Public Meeting be held?	The date for the Public Meeting is the 30th of September 2014 at Mahombekombe Primary School.			
Enquiry by Stakeholder	27-Sep-14	Community Member	Simba Mandigaia	Zimbabwe	Oliver	Employment	Will the project create employment opportunities?	The ZRA is currently focused on the design and planning for construction. Once this has been completed, the focus will change to benefits. We will be able to present these to you on the next round of consultations.			
Enquiry by Stakeholder	28-Sep-14	Office of the President	Mahombekombe	Zimbabwe	Oliver	Public Meeting	When will the Public Meeting be held?	The date for the Public Meeting is the 30th of September 2014 at Mahombekombe Primary School.			
Public Meeting	30-Sep-14	Community Member	Saevanga Town	Zambia	Janet, Felix	Other	Is a new bridge being constructed?	No. The plunge pool at the toe of the dam wall is being reshaped into 10 successive steps, and enlarged.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Construction Timeframe	How long are both processes expected to take?	Overall construction will take up to 13 years; with the plunge pool construction being 3 to 5 years and sluice gates taking 7 to 8 years.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Construction Timeframe	What will happen to the workforce during none activities months?	The in-migrant workforce will be allowed to go home and return the following year to begin works again.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Construction Timeframe	Will the workforce be paid for none activities' months?	When they are not working, we assume that the employment contracts of all will have certain stipulations regarding payments for none activities' months.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Use of Public Roads	Will the road between Makuli - Kariba be used to transport cement and other equipment? This road is already under pressure from too much traffic	No information has been provided in terms of public roads that will be used for transportation of project goods and services at present. But since this is the only access road route to Kariba by road on the Zimbabwean side, then it is therefore likely to be used. Cement and aggregate will be procured in Chitunga, Zambia.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Inadequate Stakeholder Engagement by ZRA Communication	The ZRA is not good at feeding information back to the communities.	Noted. For the ESA purposes we will send information to you via the government officials, sms notifications, project website and email.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Emergency Response	Is there a plan that will be implemented in case of the dam wall collapse?	ZRA has an in-house emergency response plan.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Construction Timeframe	When is construction expected to begin?	Second quarter of 2015.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Employment	How many people will be employed during construction?	The ZRA is currently focused on the design and planning for construction. Once this has been completed, the focus will change to benefits. We will be able to present these to you on the next round of consultations.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Employment	The ZRA needs to build a vocational training centre where people can receive training in order to qualify for the project's recruitment needs.	Noted.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Dam Wall Safety	How will the blasting affect the integrity of the dam wall?	The engineers believe that dry blasting will not affect the integrity of the dam wall. Obviously the dam wall and other infrastructure close by will be monitored during construction activities to ensure that nothing is compromised.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Inadequate Stakeholder Engagement by ZRA Communication	ZRA is not sharing information with the local people, we hear that there are problems with the dam wall through the media not them.	Noted.			
Public Meeting	30-Sep-14	Community Member	Mahombekombe	Zimbabwe	Janet, Oliver	Stakeholder Engagement	Will there be a feedback session after this Meeting?	Yes, For the ESA purposes we will send information to you via the government officials, sms notifications, project website and email. You can also contact the in-country consultants anytime if you have enquiries. The team will also return in February 2015 to provide you with further information on the impact assessment findings.			
Authorities Meeting	01-Oct-14	Government	Provincial Level National Parks and Wildlife Authority	Zimbabwe	Oliver	Other	The Provincial office is already aware of the project and will want to be furnished with information as the project progresses	Noted.			

Authorities Meeting	01-Oct-14	Government	Provincial Administrator	Zimbabwe	Other	Other	Thank you for the presentation. The provincial office is now aware and will inform others at the provincial government of it.	Noted.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Construction Timeframe	How long will construction take for plunge pool and sluice gates?	Overall construction will take up to 13 years; with the plunge pool construction being 3 to 5 years and sluice gates taking 7 to 8 years.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Other	Did Venezuela have a similar problem of the plunge pool?	No; their problems were related to the sluice gates only.			This question refers to the video of repairs on the sluice gates in Venezuela that was shown at authorities and Public Meetings.
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Environmental Impacts	Will there be any major impacts on the environment and fish?	Current assumptions do not predict any major environmental impacts but the will be verified by the specialists on the team during the ESA process and reported back to you.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	ESIA Process	Is the EIA already done?	No. ERM and its associated in-country partners are undertaking the ESIA process now.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Cracks on the Dam Wall	Is it true the dam has cracks?	Yes there are some cracks on the wall but they are not deep enough to cause the dam to collapse. There are a few cracks in the concrete lining of a house, which are cracks in plaster but it does not mean that it is going to collapse.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	1950s Engineering Concerns	Did the engineers, in 1955, not think of the potential effects of the plunge pool?	The engineers thought the existing underwater rock will be able to take the pressure/energy of the slip; and that the plunge pool was going to develop naturally away from the dam wall.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Project Benefits for Downstream Users	What are the social benefits associated with the project for people in the Lower Zambezi?	The project planning has not extended to benefits yet. Benefits will be communicated to you later on in the project planning process.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Dam Wall Safety	Why doesn't the ZRA open up the sluice gates to release the pressure of the wall?	The issue at hand is not about the pressure exerted on the dam wall but the deteriorating bedrock at the toe of the dam wall. As such, releasing water from the reservoir is not going to ensure dam wall safety. Furthermore, the dam wall is there to store and feed the water into the power stations to generate power. Releasing the water will result in reduced electricity generation as well as compromise the aquatic life on the lake.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Health and Safety	The local health facilities will not have capacity to handle any emergencies linked to the project workforce. Have any considerations regarding this been made?	None at present but this issue will be covered on the ESA under the social impact assessment.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Plunge Pool Alternatives	How many options have been considered for the proposed reshaping and enlargement of the plunge pool?	Engineers have been looked at multiple alternatives and the proposed is said to be the best option. We will engage the engineers and find out what the disregarded options were and present them to you.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Dam Wall Safety	Will all this construction not further weaken the dam?	The engineers have settled on these after consulting with the relevant authorities.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Emergency Response	In the case of the dam wall collapse, what precautions have been put in place?	ZRA has an in-house emergency response plan.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Dam Wall Safety	Will there be a calamity if we don't spill soon?	Not that we know of. There is a reservoir rule curve that is followed in terms of how much water can be held in the lake at any given time. As such, they know when to spill or not to spill based on the water levels at the dam.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Rationale about Construction	What is the motivation for starting with the rehabilitation of the plunge pool before the spillway gates? It sounds like the spillway gates are the priority and the plunge pool first will assist in eliminate the threat to the dam wall and allow ZRA to spill if need be during construction on the sluice gates takes place.	We will have to get back to you with the engineering reason behind this decision. We will have to get back to you with the engineering reason behind this decision. The plunge pool first will assist in eliminate the threat to the dam wall and allow ZRA to spill if need be during construction on the sluice gates takes place.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Monitoring of Plunge Pool	How effective are the current monitoring activities of the plunge pool?	The ZRA has in-house monitoring system. We will ask the ZRA to provide you with more details on our return.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Rationale about Construction	As consultants on the project, is it not your responsibility to advise the ZRA to begin the construction with the sluice gates instead of the plunge pool?	Yes our role is to advise, but we are not engineers. The construction activities including design and design are done by the engineers. We will bring our expertise on our return to explain the rationale behind the construction plan.			
Authorities Meeting	02-Oct-14	Government	Siavonga District	Zambia	Janet, Felix	Consultation Process	Are you informing or consulting us about this project?	We are here to consult with you, and part of consultation is information sharing so as to get the discussion going.			

Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Similar examples	Are there any other dams that have undergone such rehabilitations?	There should be, the Venezuela example unfortunately was never undertaken. But this is all about wear and tear linked to age. We will bring you more examples on our return.	<a href="http://www.two.usace.army.mil/Media/FactSheets/FactSheetArticleView/labid/2034/ArticleId/487693/flood-repairs-at-missouri-river-mainstem-dam-projects.aspx">http://www.two.usace.army.mil/Media/FactSheets/FactSheetArticleView/labid/2034/ArticleId/487693/flood-repairs-at-missouri-river-mainstem-dam-projects.aspx</a>  <a href="https://www.fbo.gov/?as=opportunity&amp;mode=form&amp;d=8422b641d35efca5492e9d0b697f3&amp;tab=core&amp;_cview=1">https://www.fbo.gov/?as=opportunity&amp;mode=form&amp;d=8422b641d35efca5492e9d0b697f3&amp;tab=core&amp;_cview=1</a>  Read more: <a href="http://billingsgazette.com/news/state-and-region/almoniana/fort-peck-dam-repairs-to-cost-1-million/article_855a119e-b75c-5cab-0a47a-ee83bcb7ba0.html#ixzz3Gj6CHHX">http://billingsgazette.com/news/state-and-region/almoniana/fort-peck-dam-repairs-to-cost-1-million/article_855a119e-b75c-5cab-0a47a-ee83bcb7ba0.html#ixzz3Gj6CHHX</a>  <a href="http://www.dambro.com/Projects/Markets/Power/Generation/Energy/LochRavenDamRehabilitation.aspx">http://www.dambro.com/Projects/Markets/Power/Generation/Energy/LochRavenDamRehabilitation.aspx</a>  <a href="https://www.fbo.gov/index?as=opportunity&amp;mode=form&amp;d=7d98eb301e6bb7c4fc966de0094f332a&amp;tab=core&amp;_cview=1">https://www.fbo.gov/index?as=opportunity&amp;mode=form&amp;d=7d98eb301e6bb7c4fc966de0094f332a&amp;tab=core&amp;_cview=1</a>  <a href="http://billingsgazette.com/news/state-and-region/almoniana/fort-peck-dam-repairs-to-cost-1-million/article_855a119e-b75c-5cab-0a47a-ee83bcb7ba0.html">http://billingsgazette.com/news/state-and-region/almoniana/fort-peck-dam-repairs-to-cost-1-million/article_855a119e-b75c-5cab-0a47a-ee83bcb7ba0.html</a>				
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Cost of Project	What is the cost of this exercise?	Current high level estimates are for \$300 million but this number is not final.					
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Risks	What risks are associated with the project?	The ESIA is being undertaken to identify project related risks aside from the loss of lives, livelihoods, biodiversity and others obvious ones.					
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Plunge Pool Works	How will the works on the plunge pool affect power generation?	At present, the project is not anticipated to impact on power generation.					
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Plunge Pool Works	What are the anticipated impacts of spilling during the construction of the plunge pool?	The construction activities will only take place during the non-spilling months. Reinforcements will be installed in the plunge pool at the end of each construction period; these reinforcements will allow for spilling to take place in the wet season without damaging the plunge pool works.					
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Access roads	Will there be access roads constructed/ or rehabilitated on the Zimbabwean side?	Yes, according to the site layout maps.					
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Employment	Ensure that employment opportunities are distributed evenly between the two countries.	Noted.					
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Emergency Response	What measures are in place to ensure the safety of the downstream users in case of unplanned events? ?	ZRA has an in-house emergency response plan.					
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Southern Slope Movement	Cave should be taken when blasting in the plunge pool area as the southern slope is moving towards the river.	Noted.					
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Plunge Pool Works	What are the likely impacts of draining the water out of the plunge pool?	The engineers are still investigating this issue; that is what they are currently suggesting that the pool should not be drained completely during construction to try and maintain some balance in the area.					
Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Plunge Pool Works	The plunge pool has been 50 years in the making; one would assume that there are natural forces at play in the area. If the ZRA removes the water in this area it is likely to have adverse effects in the entire surroundings. We would like to see some calculations or research that has been done towards this.	Noted. We will get in touch with the engineering team and get back to you.					

Authorities Meeting	02-Oct-14	Government	Kariba District Authorities	Zambia	Janet, Felix	Similar examples	Is it normal for a dam to require rehabilitation works such as these?	It is likely we will investigate and bring you other examples on our return. See links on <b>additional notes</b> .		<a href="http://www.two.usace.army.mil/Media/FishSheets/FishSheetsArticle/View/label/2034A1de487693/flood-repairs-at-missouri-river-mainstem-dam-projects.aspx">http://www.two.usace.army.mil/Media/FishSheets/FishSheetsArticle/View/label/2034A1de487693/flood-repairs-at-missouri-river-mainstem-dam-projects.aspx</a>  <a href="https://www.fbo.gov/?s=opportunity&amp;mode=form&amp;d=9422b641d35efca45492e940b697f3&amp;tab=core&amp;_cview=1">https://www.fbo.gov/?s=opportunity&amp;mode=form&amp;d=9422b641d35efca45492e940b697f3&amp;tab=core&amp;_cview=1</a>  Read more: <a href="http://billingsgazette.com/news/state-and-region/almoniana/fort-peck-dam-repairs-to-cost-4-million/article_855a19ef-b75c-5a0b-a47a-ee83b0cb7ba0.html#ixzz3Gj9CHHX">http://billingsgazette.com/news/state-and-region/almoniana/fort-peck-dam-repairs-to-cost-4-million/article_855a19ef-b75c-5a0b-a47a-ee83b0cb7ba0.html#ixzz3Gj9CHHX</a>  <a href="http://www.danbro.com/Projects/MarketPlace/PowerGeneration/Energy/Loc/RavenDam/Rehabilitation.aspx">http://www.danbro.com/Projects/MarketPlace/PowerGeneration/Energy/Loc/RavenDam/Rehabilitation.aspx</a>  <a href="https://www.fbo.gov/index?s=opportunity&amp;mode=form&amp;d=7d98cb301e6bb7c4fc9b64e00941332a&amp;tab=core&amp;_cview=1">https://www.fbo.gov/index?s=opportunity&amp;mode=form&amp;d=7d98cb301e6bb7c4fc9b64e00941332a&amp;tab=core&amp;_cview=1</a>  <a href="http://billingsgazette.com/news/state-and-region/almoniana/fort-peck-dam-repairs-to-cost-4-million/article_855a19ef-b75c-5a0b-a47a-ee83b0cb7ba0.html">http://billingsgazette.com/news/state-and-region/almoniana/fort-peck-dam-repairs-to-cost-4-million/article_855a19ef-b75c-5a0b-a47a-ee83b0cb7ba0.html</a>
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix	Construction Timeline	When is construction expected to begin?	Second quarter of 2015.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Employment	The contractors brought on by the ZFA do not employ local people. They often bring their own people.	Noted, we will make recommendations in the ESIA related to employment of local people.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Emergency Response	The ZFA needs to install and early warning systems downstream.	Noted, We will review the existing ERP and advise where needed.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Benefits	How will Zambia benefit from the project?	Yes Zambia will benefit from the project however, these have not been outlined yet as the ZFA focus has been on the design and planning for construction. We will be able to present these to you on the next round of consultations.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Benefits	How will the people in the lower Zambezi benefit?	The ZFA is currently focused on the design and planning for construction. Once this has been completed, the focus will change to benefits. We will be able to present these to you on the next round of consultations.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Employment	How many jobs will be created by the project?	Again, we don't have any numbers yet. We will be able to present these to you on the next round of consultations.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Current ZFA Employment	ZFA uses a raffle method to recruit its semi- and unskilled workforce. This method is unfair.	Noted, We cannot comment on this but we will pass on your concern.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Contractors and Wages	ZFA pays well but its contractors always pay less	Noted, We cannot comment on this but we will pass on your concern.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Contractors and Working Conditions	Chinese contractors treat its workforce poorly, the ZFA should not hire them for these works.	Noted, We cannot comment on this but we will pass on your concern.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Employment	Will the employment opportunities associated with the project be permanent?	We don't know that information at present. We will be able to present these to you on the next round of consultations.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Fisheries	Will the project affect fish stocks upstream?	Not that we know of at present. We will have the findings of the aquatic ecologist during the Draft ESIA which will clarify the matter.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	In-migrant Workforce	The ZFA needs to protect our children as most contractors tend to abuse our school going children; impregnate young girls and leaving them with children they cannot take care of.	Noted, one of the recommendations we will make in the ESIA is that the ZFA to have a closed camp where by all workers from outside will stay at camp full time with limited to no interactions with the local population.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Employment Procedures	For recruitment purposes, the ZFA should consider working with the local leaders.	Noted, but experience from other project in Africa and elsewhere has shown that this method of recruitment is often plagued by biases and nepotism.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Employment Procedures	We disagree with the use of traditional leaders in recruitment. They will corrupt the process.	Noted.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Access to ZFA	ZFA does not have an office in Siavonga only in Lusaka. For employment purposes, people have to cross the border and pay K2,00 to apply or enquire about employment opportunities.	Noted, We cannot comment on this but we will pass on your concern.		
Public Meeting	04-Oct-14	Community Member	Siavonga Town	Zambia	Janet, Felix, Maureen (ZFA)	Employment Procedures	Employment procedures need to be fair.	Noted, We cannot comment on this but we will pass on your concern.		
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZFA)	Employment	Will employment opportunities be extended to women?	Everyone will be able to apply for project related employment.		
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZFA)	Employment	Will local people be prioritised for employment opportunities?	There has not been any mention of prioritisation of locals for employment.		
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZFA)	Benefits	Will there be specific benefits for those previously displaced by the construction of the dam during construction?	We enquire with the ZFA regarding this.		



Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZRA)	Plunge Pool Works	What are the anticipated impacts of spilling during the construction of the plunge pool?	The construction activities will only take place during the non-spilling months. Reinforcements will be installed in the plunge pool at the end of each construction period; these reinforcements will allow for spilling to take place in the wet season without damaging the plunge pool works.			
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZRA)	Contractors and Working Conditions	Chinese contractors abuse people, so the ZRA should you give the construction works to them?	Noted.			
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZRA)	Employment	Will the green vests (uniforms) be a problem?	Yes.			
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZRA)	Employment	Will the ZRA be able to manage the employment of unskilled workers? This method is unfair.	Noted. We cannot comment on this but we will pass on your concern.			
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZRA)	Employment Procedures	Will there be workers' representation for those employed?	We will engage the ZRA on this issue and revert back to you.			
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZRA)	Employment Procedures	Will there be insurance in place for those working on the dam?	We assume so, as this is a general requirement to have workers insured. We will confirm this and revert back to you.			
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZRA)	Benefits	How will the people in the lower Zambezi benefit?	The ZRA is currently focused on the design and planning for construction. Once this has been completed, the focus will change to benefits. We will be able to present these to you on the next round of consultations.			
Public Meeting	04-Oct-14	Community Member	Micho Compound	Zambia	Janet, Felix, Maureen (ZRA)	Provision of Water	ZRA promised to provide the population with water and this promise has not been fulfilled.	Noted.			
Authorities Meeting	07-Oct-14		National Department of Water	Zambia	Janet, Felix	Rock Discard	What are the anticipated impacts of dumping the rock discard on the quarry site?	There are no impacts expected as this is an existing quarry site that will be filled up by rock.			
Authorities Meeting	07-Oct-14		National Department of Water	Zambia	Janet, Felix	Rock Discard	Why is the rock excavated not used to construct the plunge pool's successive steps?	The rock type found in the area is fragile and has led to the 80m plunge pool, as such granite type of rock will be used.			
Authorities Meeting	07-Oct-14	Government	National Department of Water	Zambia	Janet, Felix	Plunge Pool Works	The engineers need to consider the following facts; the removal of water from the plunge pool will reduce the stability of the dam wall. This will be due to the following, with time water in the plunge pool has seeped through the cracks on the riverbed rock and has created some form of cushion. The moment the water is reduced in the area, there will be vacant spaces left behind and the bedrock is likely to collapse on itself.	Noted.			
Authorities Meeting	07-Oct-14	Government	National Department of Water	Zambia	Janet, Felix	Plunge Pool Works	Drilling, blasting, and pumping out water from the plunge pool will definitely cause instability to the entire dam wall, especially water which is the stabilising factor in the dam wall.	Noted.			
Authorities Meeting	07-Oct-14	Government	National Department of Water	Zambia	Janet, Felix	Plunge Pool Works	The water in the plunge pool plays a significant role in stabilising the dam wall. ZRA should take great care during construction.	Noted.			
Authorities Meeting	07-Oct-14	Government	National Department of Water	Zambia	Janet, Felix	Plunge Pool Works	The ZRA need to engage engineers and a workforce that has experience working in wet mines such as Konkola Mine here in Zambia for the construction of the plunge pool.	Noted.			
Authorities Meeting	07-Oct-14	Government	National Department of Water	Zambia	Janet, Felix	Water Flows Downstream	How will the construction of the plunge pool change the water flows downstream of the dam? Keeping in mind that water will be pumped constantly into the river from the plunge pool.	We will need to wait for the aquatic ecologist's report on that. But initial indications are that the water levels are constantly rising and this will cause a lot of problems for the people living downstream of peaking activities. During the peak times the water rises and during off peak times it decreases again. As such its assumed that the rise in water from the water pumped out of the pool will not introduce any dramatic changes.			
Authorities Meeting	07-Oct-14	Government	National Department of Water	Zambia	Janet, Felix	ESIA Process	When will the aquatic ecology report be completed?	The dry season report will be completed by end november, but for internal use only then. Some initial findings will be presented in the next round of consultations. The specialist on the specialist will return for the wet season research early next year and finalise the report thereafter.			
Authorities Meeting	07-Oct-14	Government	National Department of Water	Zambia	Janet, Felix	Sluice Gates	The issue of the sluice gates is linked to lack of maintenance. One can see the white marks on the dam wall from chemical alkaline build up.	Noted.			
Authorities Meeting	07-Oct-14	Government	National Department of Water	Zambia	Janet, Felix	Sluice Gates	The main problem with the dam wall is likely to be linked to building cement hence the white streaks on the face of the dam wall.	Noted.			
Authorities Meeting	08-Oct-14	Political	Zimbabwe African National Union - Patriotic Front	Zimbabwe	Oliver	Other	Ensure that all national and regional level stakeholders are informed of the project.	Noted.			

Annex B:11

## Attendance Registers

Meeting: National Parks & Wildlife - Zimbabwe - Kariba  
 Date: 29/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Ms Beatrice Zvobara	National Parks (Kariba)	Senior Wildlife Officer	061-2646 072388753	—	Chavara Safari Area P.O. Box 2002 Kariba	zbliss02@gmail.com
Felix Chisha K.	ERMA	Sub	0974074384		Lusaka	felixchisha@yahoo.com
James Makhabela	ERMA					
Oliver Manjengwa	ERM	Sub	0772958671		Harare	olivermanjengwa@gmail.com
Mavis Hawa	ZRA					

Meeting:

Date:

24/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MS GRACE - C.E. MUNANZA	SIAMONGA DISTRICT COUNCIL	SENIOR HEALTH INSPECTOR	09797774	511069	PO BOX 12 SIAMONGA	chiedza.mwanza@gmail.com

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
SUSAN CHILDES	Black Crystal ERM	Ecologist	012660388	—	1 Fairbairn Drive Mt Pleasant Karoo	mhinkewd@co.za



Meeting: Municipality (Director of Admin) - Kariba, Zimbabwe  
 Date: 26/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Felix Chisira	ERRA	Sub	097	—	Lusaka	
Richard Kamhota	Municipality of Kariba	Director of Admin	0772 238 588		KARIBA MUNICIPALITY Box 130 KARIBA	Kamhotic@karibamun.org.zw Kamhoti.reg@mail.com

Meeting: DA's Office - Zimbabwe  
 Date: 26/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MHLANGA Bumao	Min of Local Govt	DISTRICT ADMINISTRATOR	061-2401 0772 369 889	NIL	DISTRICT ADMINISTRATION OFFICE P.O. BOX 96 KARURU	Mhlanga 53 @ gmail.com
Felix Chishaka	EXM	Sub	0974074384		Lusaka	felixchika@yahoo.com
TOMU TARIRIRO	Min of Local Govt	PR. & Admin Officer	061 3168 0773 378 487	NIL	D.A. OFFICE P.O. BOX 96 KARURU	tomutaririro@gmail.com
MWAKA Simbule	ZRA	PR & Coms Officer	0977861818	+260 211 227498	P.O. BOX 3023 LUSAKA	Simbule @ zarahos.org zm
Elizabeth Karonga	ZRA	PR & Coms Manager	0977-318735	+260 211 227498	11	Karonga @ zarahos.org zm

Meeting:

FIBERIES

Date:

30/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Felix Christian K	ERNA	Sub	0974074384		Lusaka	
Christine Likisho	Habour Trader		0978300446		Sieronga	
Violet Mweemba	Habour Trader		0946601161		Sieronga	
Angelina Kemesi	Habour Trader	Chair lady	0948303519		Sieronga	
Gladys Chembe	Habour Trader		0946707464		Sieronga	

Meeting: Fisheries  
 Date: 30/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Violet Hamwechinga	Habour trader				Siaronga	
Rumia Heakana	Habour trader				Siaronga	
Ronica Rubinda	Habour trader		09150540981		Siaronga	
Mary Mungela	Habour trader		09176332350		Siaronga	
Polina Chombe	Habour trader		09176332350		Siaronga	

Meeting:

Fisheries

Date:

30/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Soft Hangoma	Sales drinks		0979983172		Siaronga	
Chama Saye	<del>OFF</del> Trader		0978479691		Siaronga	
Cathrine NSalamuka	Harbour trader		0965699184		Siaronga	
Cathrine Chumbo	Business				Siaronga	
Cathrine Nleni	Harbour trader		09792916761		Siaronga	



Meeting: Fisheries  
 Date: 30/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Jennifer Chilekwa	Habour Trader		0976569709		Sidvonga	
Emelia Mukali	Habour trader	Vice Chair lady	0975831445		Sidvonga	
Patricia Mulenga	Habour trader	*	0963839146		Sidvonga	
Evelyn Chipopo	Habour trader		0965960904		Sidvonga	
Ester Chimwanda	Sales groceries		0972949866		Sidvonga	

Meeting: \_\_\_\_\_  
 Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Miriam Wowa	Bussiness lady		0960200754		lusaka	
Briguet Nachilongo	Bussiness lady		0962558058		lusaka	
Susan Musenteka	Bussiness lady		0965536285		lusaka	
Astridah Mwansa	Bussiness lady				Katwe	
Justin Sikanyika	Bussiness man		09677217160		Sidvongd	

Meeting: Fisheries  
 Date: 30/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Laetan Mateusini	Business		0969467265		Hsaka	
Frank Choombo	Ba mini-bus Conductor		0971831137		Sivonga	
Brendah Sibundongo	Habour trader		0975114082		Sivonga	
France NZala	Fisherman		0962019131		Sivonga	
Bernard Hangeleshi	Fisherman				KKole	

Meeting: Fisheries  
 Date: 30/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Wisdom Siampana	Trader		0973834779		Siamvong	
Willard Mulopa	Fisherman		0979071558		Siamvong	
James Simbaya	Sales groceries	Secretary	0966274858		Siamvong	

Meeting:

Fishing Camp

Date:

20/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Muyangzha nawleya	<del>Fisherman</del>	<del>None</del> fisherman	<del>None</del>		Siaronga.	
Hadurunga Robase	<del>Fisherman</del>	<del>None</del> fisherman	0972111462		Siaronga.	
Thomas Chacabo	<del>Fisherman</del>	fisherman	0975061662		Siaronga.	
Gilbert Hantabel.	<del>Fisherman</del>	fisherman	0967561316		Siaronga.	
Rebrun Makikompa	<del>Fisherman</del>	fisherman	0953566166		Siaronga.	



Meeting:

Fishing camps

Date:

30 Sept 2016

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Richard Mwansa	<del>help</del> Constructions company	helper	097441664		Silavonga	
Prince Hansubwa		pupil	0972745859		Silavonga	
Nelbester Mwansa	fisherman		0972697595		Silavonga	
lot Bwalya	fisherman		097 — 09		Silavonga	

Meeting: Tenders - Rangelateria  
 Date: 30/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Siwale Robert	Shop	Seller	0978077980		Siavonga.	
Mathee Simwile.	Stand	Seller	<del>0978077980</del>		Siavonga.	
Patience Sicaloboi	Shop	Seller	0979386410		Siavonga	
David Chigala	Drug store	owner			Siavonga	

Meeting: \_\_\_\_\_  
 Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
T. Guter		Trader				
E. Fendons			0774409412			
M. Hamid			0774549172			
R. Mubanga			0772 123456			
M. Chamusanga			0776722114			

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
L. Chisora			0776 809 833			
P. Nyirjeja			0772 842 273			
R. Mafico			0773 765 487			
R. Mungu			0774 760 007			

Meeting: Kariba Town - Zimbabwe Officials

Date: 02/10/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MR Biggs Mikeli	Zimbabwe Prison And Correctional Services	Officer Incharge	0773523702		C/O Box 140 Kariba	N/A
MR. Stephen Dandawa	District Development Fund	Dist Coordinator	0773277841		C/O Box 96 Kariba	N/A
Mrs GUNJUNGU G	CIVIL SERVICE COMMISSION	DEPARTMENTAL SECRETARY	07713523751		P O Box 240 Kariba	N/A
MRS PAULINE KARICHI	Registry General	A/Registrar	0772660402		P O Box 90 Kariba	N/A
MS O JATIMWA	LABOUR	LABOUR OFFICER	0772 660 755		Box 7 Kariba	chikogai wa@gmail.com



Meeting:

Date:

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
PETER JAMU	Ministry of Small and Medium Enterprises and Co-operative Development	Co-operative DEVELOPMENT OFFICER	061-3030/ 0774 725 271		Pearlex Complex Nyamhungu Kariakoo	ptjamu@gmail.com
Mr. Tinasenda Muganyizi	Ministry of Public Service, Labour and Social Welfare	Director Social Welfare Officer	061 2787 0773 341 544	N/A	1360 Kusumbungu B	tinamasenda@gmail.com
MRS SHARON NISONWADI	Civil Service Commission - Pensions Division	Pensions ASSISTANT	061 2601 0773 1361 28	N/A	SITARA 3269 T.E. Box 60000 Nairobi 12450	sharonnisonwadi@gmail.com
MR. EMMANUEL DHOMO	University of Zimbabwe	LICS	0772358253 0673035	N/A	UVCAS Box 48 ICANWA	edhomo@yahoo.com
PATRICIA MURRAY	University of Zimbabwe - Pensions Division	Pensions ASSISTANT	0772358253 0673035	N/A	UVCAS Box 48 ICANWA	edhomo@yahoo.com

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MR. THOMPSON FLD	EDUCATION	DISTRICT ECO TRAINING	061-2634 0773920570		Box 210 KARIBA	flythompson10@gmail.com
MR SYLVESTER MASHIMUNGA	ZPC	STATIONARY AGENTS OFFICER	07723582		ZPC KARIBA	smashimunga@gmail.com
MR K. Samusobza	ZPC	CIVIL ENGINEER	0773630 306			ksamusobza@gmail.com
MR THOMAS TUMU	LOCAL GOVT	PERSONNEL ADMIN OFFICER	0778378487 061-7168		D.A. 100 FIVE P.O. BOX 96 KARIBA	thomas182@gmail.com
MR. LAURENCE CHAMARARA	CNED	DISTRICT SUPERVISOR	079555262 061-2660		Box 98 KARIBA	laurencechamarara@gmail.com

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
EMMANUEL MANYAU	ZIMBABWE POWER COMPANY	ELECTRICAL ENGINEER	1263773- 914665	-	1 STABLE DRIVE KARIBA	Manyau@zpc.co.zw

Meeting: SIYONGA DISTRICT OFFICIALS MEETING  
 Date: 02/10/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
FELIX CHITHA R	ERM	Sub			Lusaka	
LADYOUS HIRAZISA	NATIONAL ASSEMBLY OF ZAMBIA	PA	0977765874	021511555	250 / SIYONGA	lhusibwa@yahoo.com
ALEXANDER KASENZI	HARVEST HELP	DIRECTOR	0977756483		Box 61 SIYONGA	harvesthelp@zambtel.zm
MR FRANCIS SIATWINDA	SOUTHERN WATER AND SEWERAGE COMPANY	BRANCH MANAGER	0955526440 0968662335		Box 129 SIYONGA	francissiatwind9@gmail.com
Benjamin Ndzoko	District Administration	Executive Officer	09774307361			bnndzoko@yahoo.com

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Mebelemu MAMMUNE	MAH Dept of Fisheries	Fisheries Technical Officer	0978 315090 0967 315090	N/A	DOF, Box 85 SIYONGA	mebelemuammune@gmail.com
JAMES NYIRENDA	AGRICULTURE	TECHNICAL OFFICER	0967612874	—	Box 97 SIYONGA	nyirennda360@gmail.com
Samuel L Simamba	Chief Simambas Representative	Councillor	097336090	—	Box 67 SIYONGA	nyirennda360@gmail.com
Temwani Natchi Gondwe	District AIDS Coordination Adviser (Acting) Task force	District AIDS Coordination Adviser (Act)	097754788	—	P.O. Box 150 SIYONGA	trgondwe@gmail.com
Tamara Mutalama	Ministry of Chiefs and Traditional Affairs.	District Chiefs & Traditional Affairs Officer (Act)	0977-121632	—	C10 P.O. Box 150, Siyonga	tamara.mutalama@gmail.com



Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
CHITALLU C. NG'ANDU	SIAVONGA DISTRICT COUNCIL	ENVIRONMENTAL PLANNER	0977291032	—	P.O. Box 12 SIAVONGA	chitallu@ gmail.com
GRACE C.E. NMANZA	SIAVONGA DISTRICT COUNCIL	SENIOR HEALTH INSPECTOR	0977174104	—	P.O. Box 12 SIAVONGA	chibza.mwanza@ gmail.com
DIBLA LERIMA	DISTRICT EDUCATION BOARD	HRMO	0977476511	—	Box 13 SIAVONGA	dianalupya@gmail.com
LEONARD HACHAPIKA	SIAVONGA DISTRICT COUNCIL	COUNCILLOR. CHIEF REPRESENTATIVE. SINADAMBWE	097954438 0954178189		P.O. Box 12 SIAVONGA	leonardhachi@gmail.com

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MR BRIAN SAMULOLA	DISTRICT ADMINISTRATION DISTRICT COMMISSIONER'S OFFICE	EXECUTIVE OFFICER	09777966454	0211511242	P.O. Box 150 SIAMONGA	Kajjiko6@yahoo.com
MS PAMELA MWANACHIWENA	MCDMCH DEPARTMENT OF COMMUNITY DEVELOPMENT	DISTRICT COMMUNITY DEVELOPMENT OFFICER	09777664347 0955660105		P.O. Box 203 SIAMONGA	pamtinta@gmail.com
MRS SUSAN NASIKERE DIAUNKA	MCDMCH DEPARTMENT OF SOCIAL WELFARE	ASSISTANT SOCIAL WELFARE OFFICER	0977754660		P.O. Box 203 SIAMONGA	Susannasile@yahoo.com
Brian Musonda	COUNCIL	DISTRICT PLANNING OFFICER	0977736769		P.O. Box 17 SIAMONGA	bcewila@yahoo.com
Mwansa Mwanana	Water Affairs	District Water Officer	0976827558	—	Box 51 Siwanga	mwansa.mwanana@yahoo.com

Meeting: \_\_\_\_\_  
Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
JULIUS MWANDSA	FORESTRI-1	DFO	0979819378 0955895587	—	Box 41 SIAMONGA	mwansa.julius@yahoo.com
SNIKE MZULAH	THE POST NEWSPAPER	REPORTER	0978744885	—	—	snikemzulah@gmail.com
STEVE MWINGA	THE POST NEWSPAPER	REPORTER	0979645912	—	—	mwinga.steve@yahoo.com
DR. PHALLON B. MWABA	MCOMCH - DISTRICT MEDICAL OFFICE	Ag DMO	0977589221 0966290033	+260211511077	Box 16, SIAMONGA	phallonmwaba@gmail.com

Meeting: 21m Friday  
Date: 02/10/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Margaret Chilimanzi			0777588036			
Venezia Nkhosha			0773921282			
Judyet Ntshweshwa			0778470959			
Judith Simbi			0779209094			
Faides Nhamida			0773853334			

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Godfrey NHEKEDI			0117 763 706			
Reg Semery Zulu			07730 07178			
Enia katanganda			0779261400			
Cecilia Mubvindi			0772 886630			
Suvai Tsuro	078295321		078295321			



Meeting: \_\_\_\_\_  
Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
restor ndaba.			0774460624			
Febi bluwan			077291698			
NICKS NICE Mankunga			077 3921348			
Daind balamanya			077916238			

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Mr OLIVER MANJENGWA	ERM Black Crystal	Social Consultant	0772958671	-	1 Fairbairn Rd Mt Pleasant Harare	olivermanjengwa@gmail.com
Brain macwera	youther	youther office	0772957451	-	Fariba	-
GIDENHOKUS CHIMBATI	RESIDENT		0779 734 530	-	212/3 PEARSON M/H KARIBA	-
GIFT MUPUNGA	" "	-	0774834471	N/A	D34C SHABHANDI M/H KARIBA	-
NODEL CHIJANQWA	Resident	-	0738617182	-	D49 A STEBBINS mukwe	-

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Robert Douglas Mbatia	Youth	-	0779679991 91	-	Shabari 204/5 Kariba	-
Petros Kanyuchi	Youth		0779679991		Shabari 204/5 Kariba	
Chimwaza C			0772977044		Shabari D13C	e.chimwaza123@gmail.com
Richard Chabikwa	JPC	Member	0778141037		ATA Africa Kariba	chabikwa@gmail.com
Mhandoro	MATHEMBE KOMBES PRI MARY	TEACHER	0773691905	-	P.O. Box 11 GFA Kariba	alexionhondoo@gmail.com

Meeting:

One-on-One Training

Date:

October 2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Mrs P. Kadzai Mutiyeng	PATEKA Trust	Programmes Info Officer	0176 242 676			mutiyengp@gmail.com
TEND T. KAREE	PATEKA Trust	Programmes	0778 765 561			tendtkaree@gmail.com
Edwin P. Tembo	SELF		032 444 134 016 305 046		1023 Stuart Way	edwintambo99@gmail.com
Thompson M. Mungoma			0778 381 111		1074 N. Nyan I	
Thompson M. Mungoma	Self		0778 491 204		1023 N. Nyan I	

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Kesac Siamorib: <del>Ret AAZIVANHANHA</del>			077430338 0777446355		247/4 Umthali Blocks, Mchombekembe	ksacsiamori@supafrica.com
ROZ MAZIVANHANHA			0793822546 077409587		1182 Ntambunga 2 <sup>nd</sup> LORIBA	
NILSO CHAMBERWANE			0773152760		591 LORIBA	
TADIWA MUKANJA CA	Self		0775319412 0775519412		1074 Nyanwan GARA 2 KARIBA	
GODFREY ARICANFU			0775063044		6 Aerial Hill Drive KARIBA	GODFREY.MOSTES@gnmail.com



Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Masoching Mwa	SELF		075493732 074856558	N/A	Machombekombe 3FA Church	
142 Mufunga Archibong	SELF		077921998	N/A	Machombekombe A 36 Shabani	
KARABAMU CHIRO RONALD	SELF		073537771	N/A	1236 Nyamungu	
TAKE MORE MUNAKIRA	LOVE LEAD INVESTMENTS	SALES PERSON	07463017	N/A	OMSS Local BOARD MACHOMBKOMB	tukemumakira@gmail.com
NICE PHIL	SELF	-	0793496446	N/A	D36 SHABANI BLOCKS MACHOMBKOMB	-

Meeting:

Date:

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
William CHIBAKISA	SELF	N/A	077 7446380	—	1343 Mthatha Nyanburga	A
CLGOPAS HARRY	SELF	N/A	077 177543	—	17 A ISKOR	—
DANIEL WASAKARA	—	—	—	—	R35 MPETAUKE KARIBA	—
DEBY CHAKUINGA	—	N/A	077 25820	—	90719 Chabane Mchombe-Kombe	—
Joshua Mukwaha	—	—	077 3072 652	—	132c ledq Mshombeni	Jmb-meshoni@gmail.com

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MR TAV AVARIRUSA ALFRED	EDUCATION MATHOMBERO MBE PRIV	TEACHER	0773921389	—	Box 11 G. AUSA KARIBA	—
NORMAN NYASOCHI	—	—	077323260	—	RIS ROOM 4 MBOCA BLOCKS KARIBA	—
MARIONA CHIGUBURA	—	CHURCH LADY	07756013 92	—	DS 2-4 IMPRISIT KARIBA	—
GIFT MARINDA	—	—	0783173232	—	870 NYAMUNGU KARUBA	—
ELLIOT TEMBO	—	—	0783892427 0737937619	—	D38/2 IMPRISIT	—

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Mr STANLEY NYANDORO	N/A	N/A	0753 773 45616 0712 046 799	N/A	ILAC 1800th BLOCK M1 KARIBA	farai farainyams@yahoo.com
Mr SHERPERS MURSAIRI	ZPC KARIBA	CEO ENVIRON SCIENCE ATTACHEE	0735 582 792	N/A	204/10 SHABARI KARIBA	sherperdm@gmail.com
SANSON KASAMBE	ZPC KARIBA	SC	0743 153 036	N/A	Box 20 Kariba	ffba@gmail.com
Marshall Ian Chiboga	N/A	N/A	0770 871 032	N/A	11-6 2634 Security camp kariba	Marshall@yahoo.com
Mwenye MURSAIRI	N/A	N/A	0770 871 032	N/A	11-6 2634 Security camp kariba	Marshall@yahoo.com

**Date:**

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Mr. Nwabata	N/A	N/A	0732 354 044	N/A	Box 111 Liberia Monrovia	Monrovia@gmail.com
Mr. Hilbert Tawana	N/A	N/A	0713 841 447	N/A	53 Beira mahombekombe Kazungu	Hilberta@gmail.com
Mr. Zuberi Chruspen	N/A	N/A	0737 3265 43	N/A	986 Africa Blocks KALIBA	
Mukwinda Joseph	N/A	N/A	0773 923 718		N/A 12 LOCAL BOB	
Mr. Lwanga Odu	N/A	N/A	07390 80083			East Lwanga



Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
BIASEL KASEICE	—	—	0779833778		MICAFINI	—
TAWANDA MATHAMBEKO	N/A	N/A	0716742 954		R 2510 BRATLEY MATHAMBEKO MRE	
AREONT KUSAKAZA	N/A	N/A	0773152603	—	R2616 BLANTIRE MATHAMBEKO	N/A
TAFLEI NDORO	N/A	N/A	0773010710		STAND NO 180 M/KOMBE	tracyndoro@gmail.com
Stimdywel MATHAMBEKO	N/A	N/A	07794669 34	—	JHA SHABAN MATHAMBEKO	N/A

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Mrs MEMERY CHIGATO	-	-	0714 747641	-	J.H. ISOCA 111410116 Ekoma BE KARI BA	
Mrs Gertrude Lutape	-	-	0714 112 796	-	1123B Fortja- mson KARI BA	
Mrs Ellen Tsatsi	-	-	0714 84586	-	1146B Fortja- mson KARI BA	
Mary Jack	-	-	0773997 339	-	Lusaka blocks 1116B Machumbekombe KARI BA	Maryjack@coz.com
Ronald Karambomucha	-	-	07353771 71	-	1236 Nyambunga III	

Meeting: NAICHO  
 Date: 03/10/2014

01

## ATTENDANCE REGISTER

One-on-One

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
IDAHA MANJATA	<del>SHOP OWNER</del> TRADER	SHOP OWNER	0975884619		SIAMONGA (MICHU)	
REGINA SIYAMBANGO	TRADER	SHOP OWNER	0979-223228		MICHO	
SAM MUNENGE	TRADER	OWNER	0968-197928		MICHO	
RICHARD MUNTHALI	BUYER	OWNER	0978-716297		11	
EMELIA SHERENI	TRADER	OWNER	0963-515345		11	

Meeting: Miche  
Date: 03/10/2014

02

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Rosa Mwambi	LEADER	OWNER	—		MICHE	
Granny Sigakamba	LE	LE	0967-910124		LE	
Gertrude Mwambi	LE	LE	0963-376335		LE	
Elies Sigakamba	LE	LE	0974-243479		LE	
Theresa Mwambi	LE	LE	0976-686504		LE	

Meeting:

Nicho

Date:

03/09/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Jane Sakala	Grades	Owner	0974-013734		Nicho	
Elna Mwinga			0962-019817			
Martina Magulu			0955-569654			
Ruth Mphande			0974-804196			
Bahati Mwakifwamba			0964-328008			



Meeting: Micho  
 Date: 03/10/2014

(4)

# ATTENDANCE REGISTER

One-on-One

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Timber Kangaroo	Horse in the		0979-513535		Micho	
Rita Chonaga	"		0950-655722		"	
Longwe Peter	Lake Harvest	Coordinator (Zambia)	0979-782219	+	"	
Rosemary Longwe	Trader	Owner	0972-950336		"	

Meeting: Dept of Water & Energy 10  
 Date: 07/10/2014 6

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MR. Hastings Chibwe	Dept. of Water Affairs	Principal Hydroinformatics Officer	0766 453774		Box 50288	katubwa@gmail.com
Mrs FLORA SHAMUNDEGA SINGAMBA	Dept of Water Affairs	Ag. Provincial Water Officer	0978616680		Box 30530	florika@yahoo.com
Simon Kungumba	DWA	Asst Director GW	0971-623 398	243706	Box 50288 Lusaka	Kungumba@yahoo.com
At Kent Chomba	DWA	Regional Water Engineer	0977825940		Box 50288 LSK	Chomba08027.ac@gmail.com
Oscar Suenbo	DWA	Senior Water Quantity Officer	0959865089		Box 30530 LSK	oscarsuenbo@yahoo.com

Meeting: \_\_\_\_\_  
 Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Ngoma Felix N. Ngoma	Dept. of Water	Assistant Director	5962-45 4811		Box 30530	Ngoma63@gmail.com

Meeting: Dept. of Energy (Min of Mines, Water & Energy)  
 Date: 07/10/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
ARNOLD SIMWABA	MINISTRY OF MINES ENERGY AND WATER EQUIPMENT	ACTING ASSISTANT DIRECTOR	+260-211-251387 0975-752993	+260 211-254491	P.O. BOX 51254, BIDAGWA LUSAKA	arnold@minerals.mwe.gov.zw arnold.simwaba@minerals.mwe.gov.zw

i. provincial meeting C Choma Council  
06/10/2014

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Murley Chabala	Provincial Planning Officer	Sr. Planner	096168484		Box 680335 CHOMA	Murley.Chabala@hotmail.com
NAMOBE toLINE	Provincial Planning Office	Planner	0976208405 0950300690		Box 680335 CHOMA	luckynamode@gmail.com
Felix Chishwa	ERM	Sub	0974074384		Luanda	
Janet						



Meeting:

SIAVONGA BRG - 2012

Date:

09/10/2012

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
James Banda			0967970813		SIAVONGA	
Naluku Muhonga			<del>0978114</del> 0979324915 -05 0962459717		SIAVONGA	
Crayton Kumbusi	—	—	<del>0978828974</del> 0978289793		SIAVONGA	
Shylock Chingola	—	—	0979121252	—	SIAVONGA	—
Sylvester Tembo	—	—	0974393874	—	SIAVONGA J. A. M. Box 85.	—
GURD FORB SINGOLWE SIMPANWE	—	—	0973021726	—	SIAVONGA	—

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Jelly Karabanga	NIL		0977566533	—	140 KRB basic school	Karabanga01@yahoo.co.uk
Francis Mawusi	NIL		0955286259	—	Mawusi Pn 13	—
DAVID Mawusi	NIL	—	0971567881	—	140 KRB basic school	—
Solomon Chiebo	NIL	—	09766637 -24	—	82 Siawonga	Bue
Nkandor Nwekwa	—	—	0975090903 096487411	—	59 Siawonga	71 yllt

Mawusi  
Mawusi

0966069031

140 KRB  
140

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
CHASTO Dhal Chitala	-	-	0978250173 0978250173	-	150 Mazabuku	
MORRIS Kabilu	-	-	0971290 189	-	59 Siawonga	
Rafael Lubani	-	-	09783438 29	-	50 Siawonga	
Robert Mwambi	-	-	0974 294419 0963 277586		Box 27 SIAMONGA	
GIVEN Nobela	-	-	0964 902695		SIAMONGA	

Kachiba Nzala

0963384490

Siawonga

Meeting:

Date:

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
BEN VERLAW BEHLA	1				KOMAN CATHEDRAL	
WILFRED POND	-	-	0969221308		Block 4 52 BOX	
John Pond			0962020822		Block 4 Box 52	
Western Kapiris	/	/	097422335	/	Karuba 145	
Judy Michelo	Education	Class Teacher	0979520393		Box 99 SIAMONGA	

MOSHEEN  
Kusile0978566308  
0966566308

Miche

Meeting:

Date:

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Howard. Chulinda	-	-	09771150117 0966288787	-	Kambei Primary Bad School P.O. Box 140 Siavonga	
Habinyanga Progress	-	-	0965 955072 0976 060303		Siavonga High School Road 49 Siavonga	
NGOMA ESAU			096204730 0965656714		Michael	
HABANYANGA MARION	-		0964726330 0978855967		Michael	
BARRETT SIMFUKULE	-	-	0977595740	-	MITCHELL COMPOUND	

Roberts

0954611565

Michael

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
RENWETH HAMATIASHA	—	—	0972135229	—	MITCHO	—
MORAN KUSUKU	—	—	0978566328 0966566328	—	MITCHO	—
MANZA FRIDAY	—	—	0955386788	—	MITCHO	—
Kabwe Chama	—	—	0962019533	—	MITCHO	—
BOWFEE M'clung	—	—	0979518958	—	MITCHO	—

OSCAR-N.

KAIMBO

Mitcho

096663811

—

Mitcho



Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MUBIA NA	—	—	0977130082	—	MITCH	—
EMMANUEL	—	—	0977121	—	MITCH	—
CHISANGA	—	—	0978298520	—	MITCH	—
PATRICK	—	—	0971753256	—	MITCH	—
PASSIVU MUNINIA SHE	—	—	0975908709	—	HABWAL	—
ENERGY	—	—	0978171803	—	MITCH	—
NETO	—	—	—	—	—	—
Bbawagax	—	—	—	—	—	—

MARY MURALE

0966069031

MITCH

[illegible]

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
PROTASHO MUFU	—	—	0972484 11	—	Protasho @yahoo.com	MITCHO
MANGISONI AMAGWANTIA	—	—	—	—	—	MITCHO
CHRISTOPHER NYANGU	—	—	097585 3247	—	—	MITCHO
BANDA SIMON	—	—	097336 9309	—	—	MITCHO
BRAINAEEL MUSONDA	—	—	097387 4095	—	—	MITCHO,

NAME	ORG	Position	Telephone
DICKSON			
MABBEKA			0978528480
<i>Examine</i>			
Sibajene Kabengeri	The Salvation Army		0977694791
Harrington Habanyama	New Apostolic Church P.O Box 27	General worker	0961193540
MBUMWAE MBUMWAE	NEW APOSTOLIC CHURCH BOX 27. SIAMBA	DRIVER/ FORK LIFTER OPERATOR, GENERAL WORKER	0977456355

Meeting: Siavonga Community Meeting  
 Date: 04 October 2011

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Ms J. Mkhabela	ERM	Consultant	—	—	Suite 14 Tokai SA	jm@mkhabela.com
MOFFAT KHFWABANTU.	SINDUPO	—	09721269 24	—	SIYONGA	—
ZOIHIN Ntsheng	B/NCHYPO	—	097786 0229	—	MARHLEH1 BAY KODGE PO Box 115	—
pafick gatalajala	Sindupfo	—	097569 7876	—	Sionga	—
Augustine Kazembe	Sindupfo	—	0962456855	—	Sionga	—

Meeting: \_\_\_\_\_  
 Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Steward	—	—	09620434 91	—	SIAVONGA	—
KAPWANGA	—	—	097115787	—	SIAVONGA	—
Clement	—	—	0972083 501	—	SIAVONGA	—
PETER	—	—	0967545 173	—	SIAVONGA	—
CHIPEO	—	—	09652813 22	—	SIAVONGA	—
ABBY NA LAMBO	—	—	09683144 54	—	SIAVONGA	—



Meeting: \_\_\_\_\_  
Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
STEVEN SICABCEGU	—	—	097600 9845	—	SIKAVONDA	—
STEPHEN SANKUUGWA	—	—	0977752495 0963838315	—	SIKAVONDA	—
NASHION LOVENMORE MUNAZA	—	—	0966242508	—	SIKAVONDA	—
CYPHUS MWINDA	—	—	0978078133	—	SIKAVONDA	—
PETER KAFUME	—	—	09744940 49	—	SIKAVONDA	—

Meeting: \_\_\_\_\_  
 Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MOYO JUSTINE	—	—	0973530002 0974257594	—	SIAYONGA	—
Azele PHOMH	—	—	0977637220	—	Siayong	—
FRIDAY MASETO	—	—	0971548895	—	SIAYONGA	—
RICHARD DREULAMIRANI	—	—	0968269154	—	SIAYONGA	—
GIVEA JAMBA MUCHAMBA	—	—	0968374329	—	SIAYONGA	—

Meeting: \_\_\_\_\_  
Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
ARTHUR KAMUKA	—	—	0965 67559	—	SIAMONGA	—
ALFRED SIMAYOBA	MOGAPE	League Captain	097983282	—	SIAMONGA	—
ZEPHONIA NKAUSO	—	—	096771538	—	SIAMONGA	—
STEVEN KAMUNIKA	SINOHIDRO	CARPENTER	0950361404	—	SIAMONGA	—
MONNIS MASHA	SINOHIDRO	CARPENTER	0978198313 0966667678	—	SIAMONGA	—

Meeting: \_\_\_\_\_  
 Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
DAVY MAYIA	—	—	09664675 84	—	SIAMO NGA	—
WESI CHIKOONDO	—	—	09658614968 0976	—	SIAMONGA	—
INNOCENT KITHONA	—	—	0961559849	—	SIAMONGA	—
BEST MULOPA	—	—	0965855015 0977972902	—	SIAMONGA	—
MIKE HACHISIBIKE	—	—	09777341076 0977344076	—	SIAMO NGA	—

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MARSDANDA HAKAMU KINGSLEY	—	—	097860606 097860606	—	SIAVONGA	—
CLAUDE MALAMBO	—	—	0967-5028 05/0953-8 49766	—	SIAVONGA	—
AARON TEMBO	—	—	0979992107	—	SIAVONGA	—
PATRICK HADUNKA	—	—	0967621582 095333861	—	SIAVONGA	—
DYLAN MUTOKATI/51	—	—	0981299989	—	SIAVONGA	—

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
J. CITHIWA KWAPU PHANUEL	—	—	09665878 01	—	SIAVONGA	—
MOSES Zindzi	—	—	097971 8864	—	SIAVONGA	—
NELSON MAYUELE	—	—	0972964869 0955174972	—	SIAVONGA	—
MUPUPA MISTWILE	—	—	0979 848989	—	SIAVONGA	—
KWAPU PHANUEL	—	—	096824 0152	—	SIAVONGA	—



Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
RUBEN ITAMBEENE	—	—	0967562570	—	SIAVONGA	—
HTAHLU CLAUD	—	—	09674 67778	—	SIAVONGA	—
Checo KANDAM	—	—	0876020583 0967867234	—	SIAVONGA	—
FRENDOX Twambo	—	—	09792259 54	—	SIAVONGA	—
MUNAN'GANDU HENRY	—	—	0971154599	—	SIAVONGA	—

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
(H) LUNDY PITRETH	—	—	09627 8825	—	SIAYONGA	—
KENNEDY MUCHOCHA	—	—	097752 8764	—	SIAYONGA	—
LUKA NYAMBO	—	—	09686 44030	—	SIAYONGA	—
FRANK CHANDA	—	—	09790 28830	—	SIAYONGA	—
RODALL SIAYONGA	—	—	0971 848423	—	SIAYONGA	—

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
EVANS Sindaza	—	—	097296-4796	—	SIAYONGA	—
Vincent Banyiganda	—	—	0978 9144474	—	SIAYONGA	—
ALBERT Rufwankanda	—	—	097722 2207	—	SIAYONGA P. Box 16 SIAYONGA	—
Arkal SiamuJemu	—	—	09773 737184	—	SIAYONGA	—
eloud MULONGA	—	—	09777-63 8021	—	SIAYONGA	—

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
ROBERT HATCH SIAKWAHE	SIAKWAHE COUNCIL	Driver	097794290 23 096232 7624	—	SIAKWAHE 12	—
BOANWELL SIANTIBULE	—	—	097858 5377	—	SIAKWAHE	—
ACKIM. C. HABIB	—	—	0974555339 0955555339	—	SIAKWAHE 27	—
FRANK CHOOMBA	—	—	0971834937 297712127	—	SIAKWAHE	—
WILLIAM MUBAMBARE	—	—	0967356740	—	SIAKWAHE	—

Meeting: \_\_\_\_\_  
Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
Tyson CHIBOZU	—	—	096950 7511	—	Siyonga	—
NGANU MUPONA 79	—	—	096156 5267	—	Siyonga	—
CHILUNDU PHARATI	—	—	096527 8825	—	Siyonga	—
MALB	—	—	097429 6182	—	Siyonga	—
Bemmel Kunda	—	—	0978908025	—	Siyonga	kunda.hend@gmail.com

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
HERBERT MUSAHA MUNDAWA	—	—	0962491671	—	Kanyelele Siyonga	—
John KIWATHO 180	—	—	0965783858	—	SIYONGA SIYONGA HIGH SCHOOL	—
JOSEPH R. MURABA ANITAANT LUPANDA	—	—	0963240411 096249556 -71	—	SIYONGA	—
Chongo SIYONGA	—	—	0966104958 0962616668	—	SIYONGA	—



Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
OZZY CHEGLO	—	—	096156-5020	—	SIAYONGA NEW SITE	—
NELSON HANTUMBI	—	—	0977914-913 68	—	SIAYONGA	—
STEVEN MULOPA	—	—	0964085371	—	SIAYONGA	—
MAYIBIN CHIMOWA	—	—	0967910692	—	SIAYONGA	—
MILAMBA LEVY	—	—	095304471	—	SIAYONGA	—

Meeting: \_\_\_\_\_  
Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
SIBANDA HUMPHREY	-	-	0973- 202100	-	SIVONGA	-
ELISON BANDA	-	-	0962697766	-	SIVONGA	-
JANSON CHITAKO	-	-	0988566660	-	SIVONGA HLL	-
BILLION MWEENE	-	-	0988049795	-	SIVONGA	-
LAWIN CHISALE	-	-	0961554435	-	SIVONGA	-

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
BRIGATI MILAMBO	—	—	09644050 534	—	SIAMONGA	—
BANDA CHRISTIN	.	—	09635522 0967343		SIAMONGA	
MABUTO CAMBICA			0962019063		SIAMONGA	
DASSY MAGHA HBO FWA	—	—	097389346 0954503921		SIAMONGA	
GOLDEN HACHONDA	—	—	0962697798		SIAMONGA	

Meeting: \_\_\_\_\_  
Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
HERBERT MWABAK	-	-	097465054 097465054	-	SIAWAGA	-
MAYANDO HACHEIA	-	-	097465054 097465054	-	SIAWAGA	-
BIZECK ZUZU	-	-	09730 74468	-	SIAWAGA	-
CHARLES N. CHIMUNDO	-	-	09735637 28 097465054 097465054	-	SIAWAGA	-
CHIKANDA KERRY M	-	-	097465054 097465054	-	SIAWAGA	-

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
DEREK WILSON			091777 9028 05		238	—
PAUL CHANNISA	Community	<del>member</del>	09771 0955 639793	—	KANYELEE CONDOMINIA/ SIAYONGA.	channingpapua1 @yahoo.com.
MOTION SiamuSiga	—	—	096454 2294 0972420 879	—	Siayonga	—
STEWART NJOWE	—	—	097982 9938	—	F/Camp SIAYONGA	—
STEVEN KAMUNIKA	SIKLOHVDRO	—	09503614 04 0978465848 0963741187		SIAYONGA	—

Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
COSTAN Sironya	-	Plumber	0976025331 0967991232	-	Sironya	-
Merleuti 186	-	-	-	-	Sironya	-
Maximo Kusosa	-	Driver	0976046255	-	Sironya	-
Gabrie (Kiknga)	-	Driver	0974139449	-	Sironya	-
Oseka Sumisura	-	DRIVER	0967794481	-	Sironya	-



Meeting: \_\_\_\_\_

Date: \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
MWENDA DANISTER	—		0977103013	—	SIAMONGA	
NDOASHI Bungu	—	—	0977856658 096656658	—	11	
KENNEDY SHATONTOKA	—	—	096598 6301	—	11	
SIANIAYO KENNETH	—	—	09768747 19	—	SIAMONGA	
HENRY HA AKULIPA	—	—	097920 9177	—	KAFUE GORGIE	
HAROLD NDUMUNDA	—	BLA CLAYO	0965523105 0973415155	—	SIAMONGA	

ing:

Public meeting  
04/10/2014

SBS

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
s Maureen Kestemfys	ZRA	Political & Environment Officer	0977345186	-	Z.R.A P/Bag 2001 Karinba	maureen2pk@zabo.com
Idang Enisabele	Savanga District Council	Driver	0977441053	-	Savanga District Council Box 12 Savanga	-
IMITHO Mukwinda	-	IN PLEDER	0971-150066	-	KARULA Camp	
T.M. Mweemba RORY RUCHAPI	-	-	097747253	-	Box 99 GAY	<del>maureen2pk@zabo.com</del> 
JEBARY HAMANA TEVEN MANSILAZA	-	-	0967906742	-	Box 95 SON	
	-	-	0969552245 0965097404	-	Box 99. Kanyelele	

ing:

## ATTENDANCE REGISTER

File, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
FINOOS Hikombuza	-	PLUMBER	09625 27447	-	Kradaya	-
HASTINE MURAMBI	✓	SHOT CREATOR STEEL FIXER	095043 7054	-	SIYONGA	-
MUOCEW ZATWGE		SHOT CRE TECH STEEL FIXER	097280 53130	-	SIYONGA	-
ELIHAN Simoonje	✓	Welder	095332 7799		SIYONGA	-
VDREW IMOWA	-	BUILDER YER	0961699 681	-	SIYONGA	

ing: \_\_\_\_\_  
 : \_\_\_\_\_

## ATTENDANCE REGISTER

Title, First name & Surname	Organisation Name	Position in Organisation	Telephone / Cellphone Numbers	Fax Number	Postal Address	Email Address
DAVID DAKAZA			09665669 32			
WELL ABASULU			0966836510		Box 144	
EGAN MAZEE			0967175812		Box 99	
WILIS ASHINGA			09543682 19			
Mathews Ngoma			09729577			