



**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) CERTIFICATE**

**N°: RDB/EIA/952/07/18**

**Issued Date: 20/07/2018**

This is to certify that the Environmental Impact Statement (EIS) was received from **CARERA-EDERER- TIGER Ltd**

Project title: **Rehabilitation and upgrading of Agatobwe Small hydropower (200 kw to 390 kw) Project**

Project objective: **Rehabilitation and upgrading of Agatobwe Microyadropower project from 200 Kw to 390 kw**


Location: **Nyaruguru District , Ngoma Sector, Kiyonza Cell.**

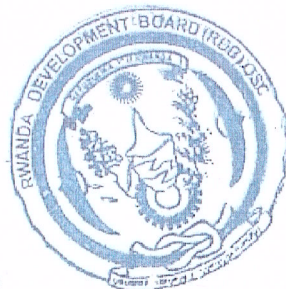
The EIS has been submitted in accordance with the Laws and Regulations relating to the requirements & procedures for Environmental Impact Assessment in Rwanda and has been reviewed and found to have sufficient and relevant mitigation measures to the identified likely impacts of the project on the environment.

It was therefore approved subject to fulfilment of the conditions attached to this certificate.

Clare AKAMANZI

Chief Executive Officer

  
Fred KAREMERA



*Copies to: REG,EDCL,REMA,Nyaruguru District*



## EIA CERTIFICATE CONDITIONS OF APPROVAL

Conditions of approval for the proposed project of “**rehabilitation and upgrading of Agatobwe small (200 kw) Hydro Power Plant** located in Kiyonza Cell, Ngoma Sector, Nyaruguru District in Southern Province. The objective of this project is to increase power generating capacity by promoting small hydropower plant and labour intensive construction and operation practices, to realize economic gains and enhance development of energy technologies, thus contributing to the coverage of the country’s increasing demand for power supply.

In addition to the implementation of mitigation measures outlined in the EIA report, this certificate of approval is granted under condition that the developer shall comply with the conditions given herein:

Signed by:

1. **General conditions**
  - ❖ This certificate of approval is valid for a period of 3 years before the commencement of the project. Application for its renewal shall be examined by RDB. Otherwise, it is valid during the whole lifecycle of this specific project unless henceforth revoked or suspended
  - ❖ Any change in the project designs shall be notified to RDB for further environmental considerations, and adjustment of this certificate of approval.
  - ❖ Ensure that the EMP is implemented as prescribed in the EIR and ensure that records are kept for future monitoring or environmental audits.
  - ❖ Ensure that any other undesirable environmental impacts arising from implanting this project but no foreseen by the time of undertaking the EIA are mitigated.
  - ❖ Obtain all necessary approvals from the local administration as well as other relevant institutions.
  - ❖ Ensure that this certificate is clearly displayed and is available at all times at the project site during project development.
  - ❖ Fulfill other environmental conditions and requirements as may be prescribed from time to time by the environmental authority or any other lead agency.
  - ❖ Carry out regular environmental audits and submit audit reports to the Authority.

## 2. **Specific conditions**

The developer shall, in addition to power plants standard requirements, conform to minimum basic safety, health, operational and environmental protection, and shall commit to comply with the following conditions:

### **Construction Phase:**

- ❖ Avoid construction sites in or near sensitive ecosystems.
- ❖ Not to select land that contravenes the regulations of the Government of Rwanda in relation to natural resources and sensitive ecosystems

- ❖ Ensure Agatobwe River is not damaged by the construction activities
- ❖ All construction works likely to produce excessive vibrations and noise shall be carried out during day hours in order to avoid noise pollution to the community in the vicinity of the project site;
- ❖ Normal operation safety guidelines should be adhered to;
- ❖ All construction materials and equipment should be within the perimeter of the construction site;
- ❖ Installation of warning signs “Danger of Electrocution” at towers, substations etc.
- ❖ Provide workers with appropriate protective equipment (PPE) (dust, noise, etc.)
- ❖ Hire only experienced workers for specific jobs, such as working at heights, handling large equipment and machinery, handling hazardous material, which required highly specialized training.
- ❖ All construction practices should observe Rwanda Building Control Regulations, 2015;
- ❖ Construction of a retaining wall to protect the powerhouse;
- ❖ Store all liquid materials (e.g. fuel, engine oil, etc.) and lubricants in locked tanks and on sealed and roofed areas
- ❖ Store construction material as bags of cement etc. in containers in order to avoid rinsing out
- ❖ Train workers accordingly in regard to working at heights, electrical safety, vehicular safety, handling of hazardous materials, PPE, use of first aid and rescue techniques, emergency response.
- ❖ Provide first aid kits and fire extinguishers at in hydro-power
- ❖ Install a fire fighting system with extinguishers
- ❖ Develop a Health and Safety Management Plan (HSMP) and implement an Health and Safety Management System (HSMS) for operation and maintenance of substation ;
- ❖ Provide proper sanitation facilities at construction site
- ❖ Design bunds around and oil collecting system beneath transformers to prevent contamination of soil and groundwater
- ❖ Avoid by all means the emission of dust emanating from earth works on site or transportation of debris and excavated soil to dumping sites;
- ❖ Potable water, temporal toilets should be available on the construction site; the toilets: Ventilated Improved Pits VIP, should be located in such a way that there is no possible contamination of the neighbouring water sources;
- ❖ During construction, all workers and visitors should have and bear protective equipments;
- ❖ Fix road sign posts at the proximity of the works sites to warn of the on-going construction activities;
- ❖ All roof rain water should be harvested or channelled to a public drainage channel;

**Operation Phase:**

- ❖ Solid wastes shall be managed by segregating the wastes at their production point according to their type (degradable and non degradable) and each type of waste shall have its appropriate and approved dumping site ;
- ❖ The developer has to sign a contract with a private company for solid waste and sludge collection and disposing of ;
- ❖ Make sure that no oil spillage occurs in the soil of the project area;
- ❖ Make the power house and/or the machines in the power house sound proofed;
- ❖ Equipment should be designed to limit noise to 39 decibels (WB requirements);

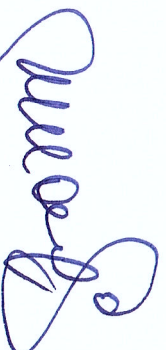
The Environmental Impact Report is thus approved subject to the fulfillment of the conditions described above, together with all mitigation measures & recommendations proposed in the Environmental Management Plan of your study report.

**N.B. Note that in case of non compliance of the conditions described above, RDB/EC reserves the right to withdraw the certificate.**

Signed by


**Clare AKAMANZI**  
Chief Executive Officer



**Theo UWAYO**  
**CARRERA-EDERER & TIGER Ltd**