



ZAMBIA ENVIRONMENTAL MANAGEMENT AGENCY

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ZEMA/INS/101/04/1 *In reply please quote*

No:

September 21, 2015

The Country Director
Ruida Investments Limited
Plot No. 6838, Solwezi Road
Chingola.

Dear Sir/Madam,

REF: PROPOSED JIFUMPA MINE IN KASEMPA DISTRICT (LARGE SCALE PROSPECTING LICENCE NO. 19623 HQ-LPL) BY RUIDA INVESTMENTS LIMITED.

Reference is made to the above captioned project report submitted to the Zambia Environmental Management Agency (ZEMA) on June 03, 2015 for consideration in accordance with the requirements of the Environmental Management Act No. 12 of 2011 and the Environmental Impact Assessment (EIA) Regulations, Statutory Instrument No. 28 of 1997.

ZEMA has since reviewed the Environmental Impact Statement (EIS) and based on the information provided by yourselves and from written and verbal comments from interested and affected parties and our site verification inspection findings; the said EIS has been **approved.**

Find attached to this Decision Letter, conditions governing this **approval.**

Yours faithfully,

Maxwell Nkoya

Acting Director General

ZAMBIA ENVIRONMENTAL MANAGEMENT AGENCY

CC: Council Secretary, Kasempa District Council, **Kasempa**
Director, Mines Safety Department, **Kitwe**
Director, Energy Regulation Board, **Lusaka**
Provincial Water Officer, Northwestern Province, **Solwezi**
Provincial Forestry Officer, Northwestern Province, **Solwezi**
His Royal Highness Chief Kasempa, **Solwezi**
Manager, NRO_ZEMA, **Ndola**



Zambia Environmental Management Agency

DECISION LETTER

1.0 PROJECT BACKGROUND

1.1 PROJECT TITLE:

Proposed Jifumpa Mine in Kasempa District (Large Scale Prospecting Licence No. 19623 HQ-LPL) by Ruida Investments Limited

PROJECT PROPONENT:

Ruida Investments Limited
Plot No. 6838, Solwezi Road
Chingola.

Contact Person:

Name: Wang Ruifeng
Designation: Country Director
Mobile Phone: 0966-898899

1.2 PROJECT LOCATION:

The Jifumpa mine project site is located about 95km south of Kasempa Town in Senior Chief Kasempa's area in Kasempa District, North-Western Province of Zambia.

1.3 DATE OF SUBMISSION BY PROPONENT:

June 03, 2015

1.4 DATE OF CONSIDERATION BY AGENCY:

August 31, 2015





2.0 DETAILS OF THE PROJECT:

Ruida Investments Limited intends to conduct mining and mining related activities at Jifumpa Mine in Jifumpa area of Kasempa District, North-western Province. Ruida Investments Limited is the holder of an exploration licence numbered, 19623-HQ-LPL for copper and cobalt exploration. The proposed project site covers a total area of 50 hectares.

The proposed project operational phase will involve revamping of the operations at the old Large-Scale Mining site using an incline to access the ore underneath in order to exploit the rock that host copper mineralisation. The mining will be conducted using the hydraulic excavators to mine the ore. The ore will then be transported to the surface and hauled to the mineral processing plant where it will be crushed, after which it will be milled before being further processed to produce copper concentrate. The proposed project is expected to last for seven (7) years. However, the project lifespan is expected to be extended for further exploration.

The major proposed project activities include site preparation, construction of the mine main plant, site offices, workshop, laboratory and mining.

The major components for the proposed project are as follows:

- i. Underground mine;
- ii. Waste rock dump;
- iii. Ore crushing station including coarse-crushing and fine-crushing, workshops, ore transfer system and run-off-mine pad;
- iv. Fuel storage facilities;
- v. Power generator;
- vi. Metallurgical production area; and
- vii. Tailings storage facility.

The production capacity for the 1.5% copper content sulphide copper ore at the proposed Jifumpa Mine will be 1.7 million tonnes per annum. The copper ore will then be processed using the floatation method to produce a concentrate of 28% copper content with an annual production capacity of 82,000 tonnes.





3.0 DECISION BY AGENCY

3.1 The project is **approved** subject to the following conditions:

- 3.1.1 Ruida Investments Limited shall implement the project and all environmental management commitments as stated in the Environmental Impact Statment (EIS) **with changes** as proposed by the Zambia Environmental Management Agency (ZEMA) and any other conditions that may be issued thereafter.
- 3.1.2 The project is approved for development and operation of the Jifumpa Mine in Kasempa District under license No. 19623-HQ-LPL and related activities by Ruida Investments Limited only.
- 3.1.3 The storage and dispensing of fuel in respect of fuel storage and dispensing facilities shall be done with written approval from the Energy Regulation Board.
- 3.1.4 Ruida Investments Limited shall put in place and use appropriate procedures for management of mine waste including tailings, waste rock and overburden materials.
- 3.1.5 Ruida Investments Limited shall put in place and implement an appropriate, effective and efficient system for management of hazardous waste including used oil, used grease, used or expired batteries, health care waste, used or expired fluorescent tubes/energy savers and materials contaminated by chemicals or other substances.
- 3.1.6 The project and related activities shall be conducted in such a way that people's property, health and sources of livelihood shall not be damaged, affected or lost. Where it is determined that the health of people, property or source of livelihood is harmed, damaged or lost as a result of the project and/or related activities, Ruida Investments Limited shall be liable for payment of appropriate compensation and other forms of relief or replacement.



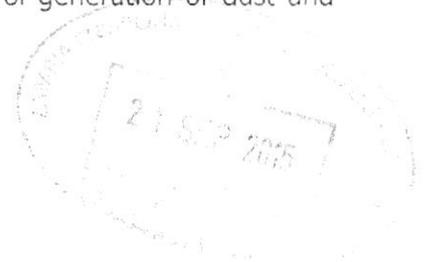


- 3.1.7 Prior to commencement of the project and project related activities, Ruida Investments Limited shall, in collaboration with relevant stakeholders and authorities such as the Ministry of Agriculture and Cooperatives, the National Heritage Conservation Commission, Kasempa District Council, Ministry of Community Development and Social Welfare and Traditional Authorities, appropriately compensate and/or relocate all persons to be affected by the project.
- 3.1.8 Ruida Investments Limited and the Resettlement Working Group shall ensure that all affected people and assets are identified and relocated and/or compensated according to a Resettlement Action Plan (RAP) and compensation package agreed upon by all stakeholders.
- 3.1.9 Ruida Investments Limited shall sign consent forms with all Project Affected Persons (PAPs) prior to implementation of the RAP.
- 3.1.10 In case of future operational expansion programmes, Ruida Investments Limited shall prepare a fresh RAP and identify all PAPs and assets accordingly, relocate and/or compensate them based on compensation packages agreed upon by all stakeholders.
- 3.1.11 Ruida Investments Limited shall put in place and initiate an open dialogue and conflict resolution system with affected persons. Project implementation by Ruida Investments Limited shall commence only after all affected persons have been compensated and/or relocated appropriately.
- 3.1.12 Ruida Investments Limited shall ensure that the social economic status of the affected people is improved when relocated to the host area.
- 3.1.13 Ruida Investments Limited shall ensure continue to provide support services to the project-affected people throughout the lifespan of the mine.
- 3.1.14 Ruida Investments Limited shall design the boreholes in consultation with Department of Water Affairs and shall maintain additional water boreholes in the host areas at the rate of 1 borehole per 20 households.
- 3.1.15 Ruida Investments Limited shall be responsible for maintenance of the boreholes at the host site.





- 3.1.16 Ruida Investments Limited shall install and operate appropriate, effective and efficient facilities for monitoring, prevention and control of pollution of air, soil/land and, surface and underground water in respect of all facilities including the open pits, processing plant, waste rock and overburden dumps, workshops, facilities for storage of materials, sewage and solid waste disposal facilities.
- 3.1.17 Ruida Investments Limited shall install and operate appropriate, effective and efficient facilities for monitoring the effects of mine dewatering and operation of any underground water abstraction facilities such as boreholes on the underground regime especially underground water (drawdown effect) and appropriate mitigation measures shall be put in place and implemented whenever it is determined that mine dewatering and abstraction of underground water has negative impacts on the underground regime.
- 3.1.18 In collaboration with the Forestry Department, the Local authority and other relevant stakeholders, Ruida Investments Limited shall put in place and implement an appropriate and effective plan for offsetting loss of vegetation, fauna, habitats and forest products.
- 3.1.19 Ruida Investments Limited shall only commence operations in protected areas such as forest reserves after obtaining appropriate written authorization from institutions mandated to manage such protected areas such as the Forestry Department.
- 3.1.20 Ruida Investments Limited shall preserve flora and fauna habitats in areas of the project site that will not be used for mining and related activities.
- 3.1.21 Ruida Investments Limited shall implement an appropriate plan for disposal of waste from clearing of vegetation or cutting down of trees (vegetation).
- 3.1.22 Ruida Investments Limited shall install and operate appropriate, effective and efficient dust suppression techniques and/or air pollution abatement equipment or materials in all areas with potential to generate air pollutants.
- 3.1.23 Ruida Investments Limited shall put in place and implement an appropriate, efficient and effective road traffic management system within the mine area and/or nearby places in order to minimize and control generation of dust and prevent road traffic accidents.





- 3.1.24 Ruida Investments Limited shall install and use appropriate, effective and efficient facilities for monitoring and minimising levels of noise from the project and related activities. Appropriate mitigation measures shall be put in place where it is determined that noise levels have approached harmful state or can result in harmful impacts.
- 3.1.25 Ruida Investments Limited shall install and use appropriate, effective and efficient facilities for monitoring vibrations in respect of the project and related activities. Appropriate mitigation measures shall be put in place and implemented where vibrations result in harm and/or damage to life and property.
- 3.1.26 Ruida Investments Limited shall put in place and implement an effective, efficient and adequate solid waste management system for management of waste to be generated from the project and related activities. The waste management system shall include appropriate collection, treatment and disposal of waste at a licensed waste disposal facility.
- 3.1.27 Ruida Investments Limited shall collect, decontaminate and dispose of in an environmentally sound and appropriate manner all contaminated waste to be generated from the project and related activities.
- 3.1.28 Ruida Investments Limited shall monitor the levels of radiation in and around the project area; appropriate Personal Protective Equipment (PPE) shall be provided to employees. Appropriate mitigation measures shall be put in place and implemented where it is determined that radiation from project activities results in harm, damage and/or destruction of the health or life of people.
- 3.1.29 All radioactive materials or materials containing radioactive substances shall be handled appropriately.
- 3.1.30 Ruida Investments Limited shall ensure that all incidences with potential to pollute the environment and harm human beings are reported to the Zambia Environmental Management Agency immediately (within twenty four hours).
- 3.1.31 Ruida Investments Limited shall put in place and implement adequate and effective measures to monitor, prevent and control soil erosion and siltation of the nearby Lunga River.





- 3.1.32 Ruida Investments Limited shall prepare and implement an adequate and appropriate emergency preparedness and response plan in respect of all project components and activities; Ruida Investments Limited shall provide appropriate equipment, materials and other resources required for implementation of the plan.
- 3.1.33 Ruida Investments Limited shall appropriately dispose of sewage using effective and efficient methods.
- 3.1.34 Ruida Investments Limited shall obtain applicable permits or licenses from the Zambia Environmental Management Agency and comply in full with the Environmental Management (Licensing) Regulations, 2013.
- 3.1.35 At decommissioning and closure, Ruida Investments Limited shall prepare and submit an appropriate decommissioning and closure report outlining implementation of all the environmental management commitments in respect of the project for consideration by the Zambia Environmental Management Agency.
- 3.1.36 Ruida Investments Limited shall ensure that all hazardous waste is disposed of appropriately by persons or companies that are licensed by the Zambia Environmental Management Agency.
- 3.1.37 Ruida Investments Limited shall not dump or bury waste indiscriminately within project site; waste shall be disposed of at an authorised waste disposal site.
- 3.1.38 Ruida Investments Limited shall protect dambos/wetlands and other water resources in and/or near the project area from unwarranted contamination or pollution with products and waste from the project and related activities.
- 3.1.39 Camp sites and sewage management facilities shall be constructed and operated in such a way that contamination of water resources shall be prevented and/or appropriately controlled.





- 3.2 The Agency **recommends** that Ruida Investments Limited to; Obtain any other relevant authorizations such as those stipulated in the following:
- i. The Explosives Act;
 - ii. The Water Resources Management Act;
 - iii. The Agricultural Lands Act;
 - iv. The Workers Compensation Act;
 - v. The Public Health Act;
 - vi. The Mines and Minerals Development Act;
 - vii. The Public Roads Act;
 - viii. The Town and Country Planning Act;
 - ix. The Employment Act ;
 - x. The Ionizing Radiation Protection Act; and
 - xi. The National Heritage Conservation Commission Act.
- 3.2.1 Make available information on hygiene, malaria, HIV/AIDS and other communicable and infectious diseases to employees.
- 3.2.2 Put in place and implement environmental, occupational health and safety policies and procedures.
- 3.2.3 Provide employees with appropriate fire-fighting equipment and train employees in fire fighting and emergency response.
- 3.2.4 Provide employees with Personal Protective Equipment (PPE) and employees shall undergo annual medical checkups.
- 3.2.5 Obtain appropriate authorization and/or water rights from the Water Resources Management Authority for utilization of water resources including abstraction of water from water resources.
- 3.2.6 Protect from damage and report all objects or sites of archaeological, traditional, cultural or historical value discovered in the project site to an appropriate institution such as the National Heritage Conservation Commission.
- 3.2.7 To consult with the appropriate traditional authorities on traditional and cultural issues and other relevant issues.





- 3.3 Ruida Investments Limited shall in accordance with Section 15 of the Environmental Management Act No. 12 of 2011 allow inspectors from the Zambia Environmental Management Agency **unrestricted entry** to the project site at any reasonable time with or without making prior notice throughout the project life cycle.
- 3.4 The implementation of the project shall commence **within three years** from the date of approval. Failure to commence implementation of the project within the stated period shall render the Decision Letter invalid and Ruida Investments Limited shall be required to re-submit the EIS for consideration.
- 3.5 Ruida Investments Limited shall comply with environmental standards and/or specific limits of particular pollutants as its responsibility. Thus, compliance with Zambia Environmental Management Agency recommended measures **does not absolve** Ruida Investments Limited from its responsibility if such measures do not achieve compliance with environmental control standards.
- 3.6 The Agency may suspend or cancel the Decision Letter **without notice** should Ruida Investments Limited fail to comply with any of the approval conditions.



A handwritten signature in black ink, appearing to read "Maxwell Nkoya".

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Maxwell Nkoya
Acting Director General
ZAMBIA ENVIRONMENTAL MANAGEMENT AGENCY