



Zambia Environmental Management Agency DECISION LETTER

1.0 PROJECT BACKGROUND

1.1 PROJECT TITLE:

Gemstone Mining at Kafubu Mine in Lufwanyama District under Licence Number 8509-HG-LSGL by Gemfields Mining Limited

1.2 PROJECT PROPONENT:

Gemfields Mining Limited
6374 Corner of Dr. Aggrey and Kariba Roads
Light Industrial Area

KITWE

Contact Person's Details

Name: Sanjay Bohra
Designation: Project Manager
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1.3 PROJECT LOCATION:

The project site for Licence Number 8509-HG-LSGL is located in the Lufwanyama Restricted Emerald Mining Area in Lufwanyama District, Copperbelt Province. It lies approximately 60km from Kitwe, 40km from Kalulushi and 100km from Luanshya.

1.4 DATE OF SUBMISSION BY PROPONENT:

January 12, 2018

1.5 DATE OF CONSIDERATION BY THE AGENCY:

March 29, 2018





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2.0 DETAILS OF THE PROJECT:

The project involves commencement of mining operations at Kafubu Mine. This will entail the following activities:

- i. Site clearing and construction of access roads and ramps to the Overburden, Waste Rock Dump and Washing areas;
- ii. Construction of perimeter drainages around the proposed Kafubu Mine Pit;
- iii. Construction of a water settlement pond, an access road to link the Kafubu Mine Pit and the existing Kagem Mine ore processing facilities, via a new bridge currently being constructed across the Kafubu River;
- iv. Trial mining and bulk sampling; and
- v. Development of the Kafubu Mine Pit over an estimated five-year period to a final depth of about 30m. The Pit Dimension will be (L x B) of 300m x 115m. The final depth of the pit at the end of the 5-year estimated lifespan will be 30m with a high wall slope angle of about 53°.

Ore crushing, washing of the ore material and sorting of gemstones will be done using the existing Kagem Mine facilities.

The estimated ore output is 0.08 million tonnes over the 5 year lifespan. The area of the project site is 1.84 square kilometers.

3.0 DECISION BY THE AGENCY:

3.1 The project is **approved** subject to conditions listed below:

- 3.1.1 Gemfields Mining Limited shall implement the project and all environmental management commitments as stated in the Environmental project brief (EPB) **with changes** as made by Zambia Environmental Management Agency (ZEMA) and any other conditions that may be issued thereafter.
- 3.1.2 The approval is for Gemfields Mining Limited mining activities under Licence No. 8509-HG-LSGL in Lufwanyama District only. Therefore, Gemfields Mining Limited shall not conduct or carry out activities that may impact negatively on the environment and are not part of the approved project.





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- 3.1.3 Gemfields Mining Limited shall consult and comply in full with the requirements and specifications of the Mines Safety Department, Forestry Department, Energy Regulation Board, Lufwanyama Town Council and other authorities.
- 3.1.4 Gemfields Mining Limited shall put in place appropriate measures or install and operate adequate and effective air pollutants suppression techniques and/or air pollution abatement equipment or materials in all areas with potential to generate air pollutants.
- 3.1.5 Gemfields Mining Limited shall be monitoring and keeping records of the quality of ambient air in the surroundings in respect of air pollutants especially dust, particulate matter 2.5, particulate matter 10 and other air pollutants.
- 3.1.6 All radioactive materials or materials containing radioactive substances shall be handled and disposed of appropriately.
- 3.1.7 Gemfields Mining Limited shall put in place appropriate measures for monitoring, preventing and controlling soil erosion and siltation/sedimentation of surface water bodies.
- 3.1.8 Gemfields Mining Limited shall ensure that blasting is carried out within the allowed limits and that blasting does not cause harmful noise pollution and land degradation.
- 3.1.9 The project and ancillary activities shall be conducted in such a way that public and private property, the health of people and livelihood shall not be endangered, harmed, affected negatively, damaged or lost. Where it is determined that the health of people, property or source of livelihood is endangered, harmed, damaged, affected negatively, or lost as a result of project activities, Gemfields Mining Limited shall be liable for payment or settlement of the appropriate compensation and/or other forms of relief or replacement.
- 3.1.10 Gemfields Mining Limited shall collect, decontaminate and dispose of all contaminated waste in an environmentally sound and acceptable manner.
- 3.1.11 Hazardous and other types of waste shall be managed by licensed persons.
- 3.1.12 Gemfields Mining Limited shall put in place appropriate measures for collection, transportation and disposal of solid (municipal) waste at a licensed disposal site.

