

環境チェックレポート

(1) プロジェクト名

銅鉱山追加開発プロジェクト

(2) 実施場所

チリ共和国第IV州

(3) プロジェクト概要

既存選鉱所設備の増強及び海水淡水化プラントの建設

(4) カテゴリ分類

カテゴリ「A」

(5) カテゴリ分類の根拠

本事業は、環境ガイドラインに掲げる影響を及ぼしやすいセクター（鉱山セクター）に該当し、影響を及ぼしやすい特性を持ち、影響を受けやすい地域あるいはその近傍に立地するため。

(6) 環境許認可

現地国制度に基づき ESIA（環境社会影響評価報告書）が作成され、2018年2月に環境評価局より所定の承認を付帯条件付きで取得済である。

(7) 汚染対策

大気質、水質、廃棄物、騒音・振動及び地盤沈下等に対し、適切な措置が講じられている旨、確認されている。

(8) 自然環境面

自然環境面の影響に対して、適切な対策が講じられている旨、確認されている。

(9) 社会配慮面

本プロジェクトでは非自発的住民移転は発生しない。その他社会配慮面への影響に対して、適切な対策が講じられる旨、確認されている。

(10) 適用国際基準

IFC パフォーマンススタンダード

(11) その他・モニタリング

上記の環境レビューを踏まえ、ESIA 報告書の許認可に係る付帯条件の遵守状況、当局等からの指摘事項の有無及び指摘事項があった場合の事業者対応状況等についてモニタリングを実施する予定。

以 上

Questions

Q1. Please provide the address of the project site.

Address of the project site : IV region of Coquimbo, Chile

Q2. Please provide brief explanation of the project.

Minera Los Pelambres is a large copper mine located in Chile. Production began in late 1999 and is now running at a level of 350,000 tonnes of payable copper, with a life of mine of approximately 19 years.

Los Pelambres plans the construction of a \$1.3bn expansion to increase the treatment capacity to face the expected higher mineral hardness. The project includes:

- One Additional SAG and ball mill
- Additional flotation cells
- A stock pile expansion
- A desalination plant
- ~60 Km water pipeline from desalination plant to tailing storage facility

Q3. Will JBIC loan be applied to a new project or an executing project? In case of an executing project, please inform of strong claims by stakeholders such as local residents, as well as improvement guidance or cessation orders for construction work / operations, from environmental authorities.

- | | |
|---|--|
| <input checked="" type="checkbox"/> New Project | <input type="checkbox"/> Executing Project (with Claim etc.) |
| <input type="checkbox"/> Executing Project (without Claim etc.) | <input type="checkbox"/> Others (Please specify) |

Q4. In case of this project, is it necessary to execute Environmental and Social Impact Assessment (ESIA) based on the laws or regulations of the country where the project is to be implemented? If necessary, please inform the progress of ESIA.

- | | |
|---|---|
| <input checked="" type="checkbox"/> Required (completed) | <input type="checkbox"/> Required (under execution or under planning) |
| <input type="checkbox"/> Not Required | <input type="checkbox"/> Others (Please specify) |

Q5. In case that ESIA is already completed, please inform whether ESIA report is already approved based on the environmental and social assessment system of the country where the project is to be implemented or not. If ESIA report is already approved, please provide the date and name of authorities of the approval.

- | | |
|---|---|
| <input type="checkbox"/> Approved (without condition) | <input checked="" type="checkbox"/> Approved (with required action plans) |
| <input type="checkbox"/> Under approval process | <input type="checkbox"/> Others (Please specify) |

Date of Approval : February 2018

Name of Authorities : Servicio de Evaluacion Ambiental, Chile

Q6. If environmental and social permit(s) other than ESIA is required, please provide the name of required permit(s). Have you obtained required permit(s)?

- | | |
|--|---|
| <input type="checkbox"/> Obtained | <input type="checkbox"/> Required, but not obtained yet |
| <input checked="" type="checkbox"/> Not required | <input type="checkbox"/> Others (Please specify) |

Name(s) of required permit(s) : _____

Q7. Will the loan be used for the undertaking that cannot specify the project at this stage (e.g. export or lease of machinery that has no relation with specific project, or Two Step Loan that cannot specify the project at the time of loan agreement)?

(No)

If you answered "Yes", it is not necessary to reply to the following questions.

If you answered "No", please reply to the following questions.

Q8. Are there any environmentally sensitive area(s) shown below in and around project site(s)?

(Yes)

If you answered "Yes", please select applicable items by marking, and reply to the following questions.

If you answered "No", please reply to the questions 9 and after.

- (1) National parks, nationally-designated protected areas (coastal areas, wetlands, areas for thnic minorities or indigenous people, and cultural heritage, etc. designated by national governments)
- (2) Forests with important ecological value (including primary forests and natural forests in tropical areas)
- (3) Habitats with important ecological value (including coral reefs, mangrove, wetland and tidal flats.)
- (4) Habitats of rare species requiring protection under domestic legislation, international treaties, etc.
- (5) Areas in danger of large-scale salt accumulation or soil erosion
- (6) Areas with a remarkable tendency towards desertification
- (7) Areas with unique archaeological, historical or cultural value
- (8) Areas inhabited by ethnic minorities, indigenous peoples or nomadic peoples with traditional ways of life(including areas which are used for cultural or spiritual purposes) and other areas with special social value

Q9. Does the project involve following characteristics?

(Yes)

If you answered "Yes", please describe the scale of applicable characteristics, and reply to the questions 10 and after.

If you answered "No", please reply to the questions 11 and after.

- (1) Involuntary resettlement and/or loss of means of livelihood (Number of affected people:)
- (2) Pumping of groundwater (Scale: m³/year)
- (3) Land reclamation, development and/or clearing (Scale: 249.7 ha)
- (4) Deforestation (Scale: 74 ha)

Q10. Under the environmental and social impact assessment system of the country where the project is to be implemented, do the applicable characteristics from (1) – (4) of the questions 9 above and their scale serve as basis for executing an ESIA for the project?

- They do
- They do not
- Others (Please specify)

Q11 May the project involve significant social impacts?

(No)

If you answered “Yes”, please describe the outline of the impacts, and reply to the questions 12 and after.
If you answered “No”, please reply to the questions 12 and after.

- The likelihood of severe project-related human rights impacts
- Others

Q12. Will JBIC share in the project be equal or less than 5% of the total project cost, or the total amount of JBIC loan equal or less than SDR 10 million? (In the case of additional support for a past project, this shall be the accumulated total amount)

(No)

If you answered “Yes”, it is not necessary to reply to the following questions.
If you answered “No”, please reply to the questions 13 and after.

Q13. Does the project belong to either of the sectors that impact on the environment and society is deemed immaterial or is not anticipated under normal conditions (e.g. maintenance of the existing facilities, non-expansory renovation project, and acquisition of rights and interests without additional capital investment)?

(No)

If you answered “Yes”, it is not necessary to reply to the following questions.
If you answered “No”, please reply to the questions 14 and after.

Q14. Does the project belong to the following sectors?

(Yes)

If you answered “Yes”, please specify the sector by marking, and reply to the questions 15 and after.
If you answered “No”, it is not necessary to reply to the following questions.

- (1) Mining
- (2) Oil and natural gas development
- (3) Pipelines
- (4) Iron and steel (projects that include large furnaces)
- (5) Non-ferrous metals smelting and refining
- (6) Petrochemicals (manufacture of raw materials; including complexes)
- (7) Petroleum refining
- (8) Oil, gas and chemical terminals
- (9) Paper and pulp
- (10) Cement plants (including a greenfield quarry)
- (11) Manufacture and transport of toxic or poisonous substances regulated by international treaties, etc.
- (12) Thermal power
- (13) Nuclear power
- (14) Hydropower, dams and reservoirs
- (15) Power transmission and distribution lines involving large-scale involuntary resettlement, large-scale logging or submarine electrical cables
- (16) Roads, railways and bridges
- (17) Airports
- (18) Ports and harbors
- (19) Sewage and wastewater treatment having sensitive characteristics or located in sensitive areas or

their vicinity

- (20) Waste management and disposal
- (21) Agriculture involving large-scale land-clearing or irrigation
- (22) Forestry
- (23) Tourism (construction of hotels, etc.)

Q15. Please provide information on the scale of the project (project area, area of plants and buildings, production capacity, amounts of power generation, etc.) Further, please explain whether an execution of ESIA is required on account of the large scale of the project in the country where the project is implemented.

The nominal capacity of the plant will be expanded to 190 ktpd, while copper production increases 55ktpa from 2021.