# Japan Bank for International Cooperation

### Environmental Examination Report

# (1) Project Name

Copper mine project

# (2) Project Site

Region IV, Republic of Chile

#### (3) Project Outline

Expansion of the facility of concentrator and construction of a sea water desalination plant

# (4) Category Classification

Category A

## (5) Reason for Classification

The project falls into the sensitive sector (Mining sector), has sensitive characteristics and is located in or near sensitive areas under the Environmental Guidelines.

# (6) Environmental Permits and Approvals

Environmental approval for Environmental Social Impact Assessment has been issued by competent authority as of February 2018 with some conditions.

#### (7) Pollution Mitigation Measures

It is confirmed that air quality, water quality, waste, noise, vibration and land subsidence are properly managed.

#### (8) Natural Environment

Appropriate measures are taken to avoid impacts to the natural environment.

#### (9) Social Environment

The project does not involve involuntary resettlement. Appropriate measures are taken for the protection of the social environment.

# (10) International Standard IFC Performance Standards

# (11) Others, Monitoring

Taking the above environmental review into consideration, JBIC will monitor compliance status with the conditions attached to the ESIA report.

# <u>Questions</u>

Q1. F	lease provide the address of the project site.		
A	address of the project site: IV region of Co	quim	bo, Chile
Q2. F	lease provide brief explanation of the projec	et.	
	Los Pelambres is a large copper mine locate el of 350,000 tonnes of payable copper, with		Chile. Production began in late 1999 and is now running of mine of approximately 19 years.
	lambres plans the construction of a \$1.3b d higher mineral hardness. The project includes		pansion to increase the treatment capacity to face the
•	A stock pile expansion A desalination plant	ı plan	t to tailing storage facility
please		uch a	n executing project? In case of an executing project, s local residents, as well as improvement guidance or environmental authorities.
X	New Project Executing Project (without Claim etc.)		Executing Project (with Claim etc.) Others (Please specify )
based (			Environmental and Social Impact Assessment (ESIA) the project is to be implemented? If necessary, please
X	Required (completed ) Not Required		Required (under execution or under planning) Others (Please specify )
the env		f the	form whether ESIA report is already approved based on country where the project is to be implemented or not. It and name of authorities of the approval.
		X A	Approved (with required action plans) Others (Please specify )
	e of Approval : February 2018 ne of Authorities : Servici	io de	Evaluacion Ambiental, Chile
<b>Q6.</b> permit	If environmental and social permit(s) other (s). Have you obtained required permit(s)?		ESIA is required, please provide the name of required
X			Required, but not obtained yet Others (Please specify )
Nan	ne(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 lea of machinery that has no relation with specific project, or Two Step Loan that cannot specify the project at 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.						
<ul> <li>X (1) National parks, nationally-designated protected areas (coastal areas, wetlands, areas for the minorities or indigenous people, and cultural heritage, etc. designated by national governments</li> <li>C (2) Forests with important ecological value (including primary forests and natural forests in tropic</li> </ul>	s)					
areas)  (3) Habitats with important ecological value (including coral reefs, mangrove, wetland and tieflats.)	dal					
<ul> <li>X (4) Habitats of rare species requiring protection under domestic legislation, international treatietc.</li> </ul>	es,					
<ul> <li>(5) Areas in danger of large-scale salt accumulation or soil erosion</li> <li>X (6) Areas with a remarkable tendency towards desertification</li> <li>X (7) Areas with unique archaeological, historical or cultural value</li> <li>□ (8) Areas inhabited by ethnic minorities, indigenous peoples or nomadic peoples with tradition ways of life(including areas which are used for cultural or spiritual purposes) and other are</li> </ul>						
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?						
X They do □ They do not □ Others (Please specify )						
Q11 May the project involve significant social impacts?						

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(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-expansionary 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.					
If you answered "No", it is not necessary to reply to the following questions.  X (1) Mining					
If you answered "No", it is not necessary to reply to the following questions.  X (1) Mining  (2) Oil and natural gas development  (3) Pipelines					
If you answered "No", it is not necessary to reply to the following questions.  X (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					
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If you answered "No", it is not necessary to reply to the following questions.  X (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					
If you answered "No", it is not necessary to reply to the following questions.    X					

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, pleased 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.