

環境チェックレポート

(1) プロジェクト名  
鉱山施設改修事業プロジェクト

(2) 実施場所  
ブラジル連邦共和国ミナスジェライス州

(3) プロジェクト概要  
鉱山施設の原状回復事業

(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（ダムセクター）に該当し、影響を受けやすい地域あるいはその近傍に立地し、影響を及ぼしやすい特性を持つため。

(6) 環境許認可  
現地法上、本プロジェクトは環境影響評価の対象事業に該当しないものの、対象ダムにおける環境影響評価手続きを踏まえた各鉱山の操業許可書を取得済みある。

(7) 汚染対策  
大気質、水質、廃棄物、土壌汚染及び騒音・振動に対して、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  
本プロジェクトにより影響を受ける地域に、配慮が必要とされる少数民族及び先住民族は居住しない。

(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

上述の環境レビュー結果を踏まえ、環境関連許認可の取得状況、適用法令及び許認可付帯条件を踏まえた工事の進捗状況、用地取得及び補償計画の進捗状況についてモニタリングを行う予定である。

以 上

## Questions

**Q1.** Please provide the address of the project site.

**City: Itabira**                      **State : Minas Gerais**  
Pontal (2,3,4,5 - Dike), Cordão Nova Vista (Dike), Minervino (Dike), Rio do Peixe (Dike)

**City: Nova Lima**                      **State : Minas Gerais**  
8B (Dam), Auxiliar 5B (Dike), B3/B4 (Dam), Fernandinho (Dike), Vargem Grande (Dam)

**City: Ouro Preto**                      **State : Minas Gerais**  
Doutor (Dam), Forquilha I (Dam), Forquilha II (Dam), Forquilha III(Dam), Grupo (Dam)

**City: Mariana**                      **State : Minas Gerais**  
Campo Grande (Dam), Xingu (Dry Stacking)

**City: Congonhas**                      **State : Minas Gerais**  
Baixo João Pereira (Dam)

**City: Santa Barbara**                      **State : Minas Gerais**  
Monjolo (Dry Stacking)

**City: Barão de Cocais**                      **State : Minas Gerais**  
Sul Superior (Dam)

**City: Rio Piracicaba**                      **State : Minas Gerais**  
Vale das Cobras (Dry Stacking)

**Q2.** Please provide brief explanation of the project.

"De-characterization of upstream dams".

**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.

New Project                       Executing Project (with Claim etc.)  
 Executing Project (without Claim etc.)                       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.

Required (completed )                       Required (under execution or under planning)  
 Not Required                       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.

Approved (without condition)                       Approved (conditional)  
 Under approval process

Date of Approval :

Name of Authorities :

**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)?

- Obtained  Required  
 Not required  Others (Please specify \_\_\_\_\_ )

Name(s) of required permit(s) : Described below\_\_\_\_\_

- DAIA - Authorization Document for Environmental Intervention
- LOC - corrective operation license
- Grant for surface water capture;
- Grant for drilling well for groundwater reduction;
- Grant for ongoing water intervention

**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.

- X (1) National parks, nationally-designated protected areas (coastal areas, wetlands, areas for ethnic minorities or indigenous people, and cultural heritage, etc. designated by national governments)
- X (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.)
- X (4) Habitats of rare species requiring protection under domestic legislation, international treaties, etc.
- X (5) Areas in danger of large-scale salt accumulation or soil erosion
- (6) Areas with a remarkable tendency towards desertification
- X (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.

X ( 1 ) Involuntary resettlement and/or loss of means of livelihood  
Number of affected people: 850 people

X (2) Pumping of groundwater  
(Scale: under planning)

X (3) Clearing  
(Scale: 675 hectares, under planning)

X (4) Deforestation  
(Scale: 675 hectares, under planning)

**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

**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 ( )

**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
- X (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 project is intended to convert the existing tailing dams into a downstream or centerline dam to enhance the stability of dikes, called de-characterization. The activities of de-characterization with the respective disposal and/or reuse of waste may, due to their proportion/scale, be subject to environmental licensing proceeded by Environmental Impact Study (EIA – *Estudo de Impacto Ambiental*) / Environmental Impact Report (RIMA – *Relatório de Impacto Ambiental*). If, however, any intervention or vegetation suppression is required, it will be necessary to obtain specific environmental authorization, as well as for reuse of sediments or wastes for industrial purposes due to the de-characterization process. These processes will be subject to environmental licensing under the terms of Law 23.291/19.