

環境チェックレポート

(1) プロジェクト名

地熱発電機器輸出プロジェクト

(2) 実施場所

トルコ共和国アイドゥン県

(3) プロジェクト概要

地熱発電所の輸出

(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特性を持つため。

(6) 環境許認可

同国制度に基づき ESIA（環境社会影響評価報告書）が作成され、2012 年 11 月に同国環境都市計画省より承認を取得済である。

(7) 汚染対策

大気質、騒音については、現地基準を満たす。水質、廃棄物及び土壌について、適切な処理が行われる計画である。

(8) 自然環境面

プロジェクトサイト及びその周辺地域に保護区は存在しない。本プロジェクトサイト及びその周辺地域において、同国制度で保護種に分類される動植物は存在しない。

(9) 社会配慮面

土地取得及び住民移転については、同国法制度に基づき被影響住民との協議の上、適切な措置が講じられている。地下水揚水については、汲み上げた地熱流体は全量地下に還元されることから、地盤沈下は予見されない。

(10) 適用国際基準

世界銀行・セーフガードポリシー

(11) その他・モニタリング

上述の環境レビューを踏まえ、以下の項目のモニタリングを行う

- ・ 最寄りの居住区における騒音値
- ・ 送電線の敷設に必要な用地取得に係る補償金の支払い状況及び本プロジェクトの用地取得に係る苦情の有無（有の場合、その内容及び事業者の対応）

以 上

Questions

Q1. Please provide the address of the project site.

Address of the project site: Gürmat Omerbeyli Field, Omerbeyli Koyu Mevkii, Germencik, Aydın, Turkey

Q2. Please provide brief explanation of the project.

Construction and Operation of Geothermal Power Plant

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 Impact Assessment (EIA) based on the laws or regulations of the country where the project is to be implemented? If necessary, please inform the progress of EIA.

- Required (completed) Required (under execution or under planning)
 Not Required Others (Please specify)

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

- Approved (without condition) Approved (conditional)
 Under approval process Others (Please specify)

Date of Approval :

Name of Authorities : Ministry of Environment and Urban Planning

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

- Obtained Required, but not obtained yet
 Not required Others (Please specify)

Name(s) of required permit(s) : EIA not required Certificate

Date of Approval : 29/11/2012

Name of Authorities : Ministry of Environment and Urban Planning

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)?

(Yes / , 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 shown below in and around project site?

(Yes / , No)

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

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

- (1) National parks, protected areas designated by government (coastal areas, wetlands, habitats of minorities or indigenous populations, heritage sites, etc.)
- (2) Primeval forests, tropical natural forests
- (3) Ecologically important habitats (coral reefs, mangrove, tidal flats, etc.)
- (4) Habitats of endangered species of which protection is required under local laws and international agreements.
- (5) Areas that have risks of large scale increase in soil salinity or soil erosion
- (6) Desertification areas
- (7) Areas with special values from archaeological, historical and/or cultural viewpoints
- (8) Habitats of minorities, indigenous populations, nomadic people with traditional life style, or areas with special social value

Q9. Does the project involve following characteristics?

(, Yes / No)

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 questions 11 and after.

- (1) Involuntary resettlement (Number of resettlers:)
- (2) Pumping of groundwater (Scale: 6,190 tons /hour)
(Please be noted that this is the volume not of groundwater, but of geothermal fluid.)
- (3) Land reclamation, development and/or clearing (Scale: ha)
- (4) Deforestation (Scale: ha)

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

- They do They do not
- Others

Q11. 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)

(, Yes / No)

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

If you answered "No", please reply to questions 12 and after.

Q12. Does the project belong to either of the sectors that impact on the environment is deemed immaterial or is not anticipated under normal conditions (e.g. maintenance of the existing facilities, non-expansionary renovation project, acquisition of rights and interests without additional capital investment)?

(Yes / No)

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

If you answered "No", please reply to the questions 13 and after.

Q13. Does the project belong to the following sectors?

(Yes / No)

If you answered "Yes", please specify the sector by marking, and reply to questions 14 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) Manufacture and transport of toxic or poisonous substances regulated by international treaties, etc.
- (11) Thermal power
- (12) Nuclear power
- (13) Hydropower, dams and reservoirs
- (14) Power transmission and distribution lines involving large-scale involuntary resettlement, large-scale logging or submarine electrical cables
- (15) Roads, railways and bridges
- (16) Airports
- (17) Ports and harbors
- (18) Sewage and wastewater treatment having sensitive characteristics or located in sensitive areas or their vicinity
- (19) Waste management and disposal
- (20) Agriculture involving large-scale land-clearing or irrigation
- (21) Forestry
- (22) Tourism (construction of hotels, etc.)

Q14. 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 EIA is required on account of the large scale of the project in the country where the project is implemented.

pk