2015 年 9 月 15 日
独立行政法人日本貿易保険

環境レビュー結果

(1) 照会番号
15-004

(2) プロジェクト名
地熱発電所

(3) 実施場所
トルコ　アイドゥン県

(4) プロジェクト概要
地熱発電所の建設

(5) カテゴリ分類
カテゴリ A

(6) カテゴリ分類の根拠
本プロジェクトは、環境ガイドラインに示される影響を及ぼしやすい特性を持つため。

(7) 環境許認可
現地国法に基づいて環境影響評価書が作成されており、トルコ環境都市計画省より環境許認可を取得している。

(8) 汚染対策
大気質、水質について、現地国基準及び国際基準を満たすよう適切な対策が講じられる。その他の汚染対策についても、適切な措置が講じられる。

(9) 自然環境面
自然環境面への影響に対して、適切な措置が講じられる。

(10) 社会配慮面

社会面への影響に対して、適切な措置が講じられる。なお、本プロジェクトの実施による非自発的住民移転は発生しない。

(11) 適用国際基準

世界銀行セーフガードポリシー

(12) その他（モニタリング等）

プロジェクト実施者による、大気質、水質、騒音等のモニタリングが計画されており、モニタリング結果は定期的に関係当局へ報告される予定である。

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
- ☐ Others
- ■ They do not

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, pleased 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.