

環境チェックレポート

(1) プロジェクト名

LNG プロジェクト

(2) 実施場所

パプアニューギニア独立国

(3) プロジェクト概要

ガス田開発及び LNG の製造・販売

(4) カテゴリ分類

カテゴリ「A」

(5) 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掲げる石油・天然ガス開発、パイプライン、石油・ガス・化学物質ターミナル及び港湾セクターに該当し、影響を及ぼしやすい特性を伴い、周辺に影響を受けやすい地域があるため。

(6) 環境許認可

同国制度に基づき環境影響評価書が作成され、2009 年 9 月に同国環境保全省より環境許可を取得済みである。また、環境影響評価書作成において、住民等への説明を実施済みである。

(7) 汚染対策

大気質、水質、騒音の計画値は現地基準及び世銀基準を満たす計画。廃棄物についても、国際条約等に基づき適切な処分を行う予定である。

(8) 自然環境面

サイト周辺には野生生物管理エリアが存在し、また、貴重種も生息して

いるところ、本プロジェクトによる影響を、事業者自身の各種管理計画に基づき可能な限り回避・緩和する予定である。また、最終的に不可避な影響については国際的な指針等に基づき、各種ステークホルダーとも協議の上、オフセットを実施していく予定である。

(9) 社会配慮面

本プロジェクトにより移転を含む社会経済的な影響を受ける住民への配慮については、事業者は、移転前に対象エリア毎に対応計画を策定する予定。また、住民移転プロセスにおいては、各種専門家等の協力を得つつ、国際的な指針に基づいた適切な措置を講じる予定である。

(10) その他・モニタリング

上述の環境レビューを踏まえ、大気質、水質、騒音のモニタリングを実施する予定。また、生態系への影響にかかる回避・緩和対策の実施状況や、住民移転プロセスへの対応状況についても、モニタリングを実施する予定である。

以上

Questions

Q1. Please provide the address of the project site.

Papua New Guinea

Q2. Please provide brief explanation of the project.

Gas development and construction of LNG plant and related facilities

Q3. Will JBIC loan be applied to a new project or an executing project? In case of executing project, please inform the presence of strong claims by local residents.

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

Q4. In case of this project, is it necessary to execute Environmental Impact Assessment (EIA) based on the laws or regulations? If necessary, please inform the progress of EIA.

- | | |
|---|---|
| <input type="checkbox"/> Required (Completed) | <input checked="" type="checkbox"/> <u>Required (Under execution or under planning)</u> |
| <input type="checkbox"/> Not Required | <input type="checkbox"/> 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 or not. If EIA report is already approved, please provide the date and name of authorities of the approval.

- | | |
|---|--|
| <input type="checkbox"/> Approved (without condition) | <input type="checkbox"/> Approved (conditional) |
| <input checked="" type="checkbox"/> <u>Under approval process</u> | <input type="checkbox"/> Others (Please specify) |

Date of Approval :

Name of Authorities :

Q6. If environmental permit(s) other than EIA 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 type="checkbox"/> Not required | <input checked="" type="checkbox"/> Others (Please specify) |

Name(s) of required permit(s) : Environment Permit (subsequent to approval of EIS, also from DEC)

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 areas shown below in and around project site?

Yes

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 elements?

Yes

If you answered "Yes", please describe the scale of applicable elements, 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: Approx 60 dwellings)
- (2) Pumping of groundwater (Scale: ton/year)
- (3) Land reclamation or/development (Scale: ha)
- (4) Deforestation (Scale: Approx 2800 ha)

Q10. Please reply to this question only in case that the project involves some of the above (1) to (4) elements. In the country where the project is planned, are there any regulations on a scale of the elements asked in question 9? If the country has such regulation, please answer whether the project satisfies the regulation or not.

- Regulation is applicable (satisfied not satisfied) No regulation
- 11 Others (Please specify)

Please reply to questions 11 and after.

Q11. Will IBIC share in the project be equal or less than 5% of the total project cost, or the total amount of IBIC loan equal or less than SDR 10 million?

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-expansive renovation project, acquisition of rights or interest without additional plant investment)?

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

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) Hydro power plant, Dam or water reservoir
- (2) Thermal power plant
- (3) Mines
- (4) Development of oil and gas
- (5) Pipeline
- (6) Steel industry (with large scale furnace)
- (7) Non-ferrous metal refining
- (8) Petrochemical (including manufacturing of raw materials and petrochemical complex)
- (9) Terminal of oil, gas and chemicals
- (10) Petroleum refining
- (11) Paper and pulp
- (12) Manufacturing and/or transportation of hazardous substances (specified by international agreement)
- (13) Road, railway or bridge
- (14) Airport
- (15) Port
- (16) Waste material processing or treatment
- (17) Treatment of sewage and/or waste water that includes hazardous substances or executed at environmentally sensitive area
- (18) Power transmission and/or distribution lines (including large scale involuntary resettlement, large scale deforestation or submarine cable)
- (19) Tourism (Construction of hotel, etc.)
- (20) Forestry or tree planting
- (21) Agriculture (large scale project and/or project including irrigation)

Q14. Please provide information on the scale of the project (project area, area of plants and buildings, production capacity, amounts of power generated, 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.

Expected LNG production is approximately 6.3 million tons per year.