

環境チェックレポート

- (1) プロジェクト名
石油化学品の製造・販売事業
- (2) 実施場所
サウジアラビア王国／ラービグ
- (3) プロジェクト概要
石油化学品の製造・販売事業
- (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（石油化学・石油精製・火力発電セクター）に該当し、影響を及ぼしやすい特性を持ち、影響を受けやすい地域あるいはその近傍に立地するため。
- (6) 環境許認可
サウジアラビア王国制度に基づき EIA 報告書が作成され、2011 年 8 月 9 日、同国石油・鉱物資源省（当局）より付帯条件（大気質に係る影響緩和計画書の策定）付で承認を取得済。なお、当該付帯条件については、2013 年 3 月 27 日に当局承認を取得済。
- (7) 汚染対策
大気質、水質、及び騒音・振動の計画値はいずれも現地基準及び IFC パフォーマンススタンダードを満たす見込みであり、廃棄物についても適切に回収・処分がなされる予定である。
- (8) 自然環境面
本プロジェクトのサイト内及びその近傍地域には、保護区及び保護対象の動植物は存在しない。
- (9) 社会配慮面
本プロジェクト実施に必要な用地については、既にその使用権を確保済

であり、非自発的住民移転は発生しない。

(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を踏まえ、大気質についてモニタリングを行う予定。

以上

Questions

Q1. Please provide the address of the project site.

Address of the project site: P.O. Box 666, Rabigh 21911, Saudi Arabia

Q2. Please provide brief explanation of the project.

Expansion of existing ethane cracker and construction of a new aromatics complex, other process facilities and utilities & infrastructures

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-revision)
 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 : August 9, 2011

Name of Authorities : Ministry of Petroleum & Mineral Resources

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) :

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: m³/year)
- (3) Land reclamation, development and/or clearing (Scale: 7.3million m² (730 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 (Please specify)

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-expansory

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.

R2 land area: about 3.6 million m² (including 3rd party projects area)
In addition, contractors' camp site: about 3.7 million m²

Volume of petrochemical end products : About 3 million ton per annual
Power generation capacity: 240MW