

環境チェックレポート

(1) プロジェクト名

複合火力発電・淡水化プロジェクト

(2) 実施場所

カタール国ラスラファン工業都市

(3) プロジェクト概要

新規天然ガス焚き複合火力発電・淡水化プラントの建設・操業を行うもの

(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大規模な火力発電セクターに該当するため。

(6) 環境許認可

同国制度に基づき、EIA(環境アセスメント報告書)が作成され、カタール国環境省より承認されている。

(7) 汚染対策

大気質の計画値は、PM10 を除き、現地基準を満たし、世界銀行基準を概ね下回る計画である。PM10 についてもカタール国の乾燥した気候による天然由来の浮遊粒子状物質が多いことが主因であり、本プロジェクトに起因するものではないとしてカタール国環境省も容認している。また、水質、騒音の計画値は、現地基準及び世界銀行基準を下回る計画となっている。

(8) 自然環境面

本件サイトは自然保護区に位置しない。

(9) 社会配慮面

本サイトは未利用地であり、本プロジェクトによる住民移転は発生しない。

(10) その他・モニタリング

大気質及びウミガメ保護に関するプログラムの実施状況につきモニタリングを行う予定。

以 上

Questions

Q1. Please provide the address of the project site.

The Independent Water and Power Project plant will be located in Ras Laffan Industrial City, Qatar

Q2. Please provide brief explanation of the project.

The Ras Laffan C project involves the installation of a Combined Cycle (CC) power and desalination plant in Ras Laffan Industrial City (RLC), Qatar. The plant will have a net rated thermal capacity of 2730 megawatts (MW) and steam production for seawater desalination to produce up to 63 million imperial gallons per day (MIGD) of desalinated water. The Facility shall be constructed with considering land space to be preserved as site for future requirement of distillate water export pumping facility and 24 hours storage capacity of 20 MIGD of potable water.

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"/> New Project | <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"/> Required (Under execution or under planning) |
| <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.

Approved (without condition)

Approved (conditional)

Under approval process

Others (Please specify: EIA report for

submission to SCENR has been completed)

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)?

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)?

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

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?

No

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:)
- (2) Pumping of groundwater (Scale: ton/year)
- (3) Land reclamation and/or development (Scale: ha)
- (4) Deforestation (Scale: 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
 Others (Please specify _____)

Please reply to questions 11 and after.

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?

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 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 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.

The Ras Laffan C project will be located in Ras Laffan Industrial City located 90 km to the north of Doha. The total area allocated for this project is 560,172 m². The Ras Laffan C project involves the installation of a Combined Cycle (CC) power and desalination plant in Ras Laffan Industrial City (RLC), Qatar. The plant will have a net rated thermal capacity of 2730 megawatts (MW) and steam production for seawater desalination to produce up to 63 million imperial gallons per day (MIGD) of desalinated water. The Facility shall be constructed with considering land space to be preserved as site for future requirement of distillate water export pumping facility and 24 hours storage capacity of 20 MIGD of potable water. An EIA is required based upon the scale of the project.