## 環境レビュー結果

- (1) 照会番号 11-009
- (2) プロジェクト名ガス精製施設等建設
- (3) 実施場所カタール国 ラスラファン工業地区
- (4) プロジェクト概要ガス精製施設等の建設
- (5) カテゴリ分類カテゴリ A
- (6) カテゴリ分類の根拠 本件は、環境ガイドラインに示される大規模な石油・天然ガス開発セクター、パイプラインセクターに該当し、影響を受けやすい地域を伴うため。
- (7) 環境許認可 現地環境影響評価制度に基づき環境影響評価報告書が作成され、現地環境当局から承認を 取得している。
- (8) 汚染対策 大気質、水質の計画値は現地基準及び国際基準を満足している。その他の汚染対策も適切 に講じられる。
- (9) 自然環境面 保護管理計画に基づく保全活動が行われており、特段の影響は予見されない。
- (10) 社会配慮面 非自発的住民移転を伴わず、また、文化遺産、景観等への影響は予見されない。
- (11) その他 (モニタリング等) 事業者は大気、水質、騒音、生態系(海生生物)に関するモニタリングを実施する予定。

## Questions

Q1. Please provide the address of the project site.	
Address of the project site: Ras Laffan Indu	strial City, Plot W18, Qatar
Q2. Please provide brief explanation of the project.	
The objective of Barzan Project is to supply dom development and industrial growth.	nestic gas to meet the State of Qatar's energy needs to sustain its infrastructure
field condensate will be removed from the wet gas refrigerated and processed to extract natural gas li- fractionated into saleable products including ethan-	ed and exported to an onshore gas treatment plant. Onshore, produced water and in the onshore slug catcher. The gas will be treated to remove impurities and then iquids (NGL), leaving residual methane gas for pipeline sales. The NGL will be e, propane, butane and condensate. Elemental sulfur will be extracted from sulfur d gas in Sulfur Recovery Units (SRUs) and routed, in liquid form, to the Common
Q3. Will JBIC loan be applied to a new project of claims by stakeholders such as local residents, a operations, from environmental authorities.	or an executing project? In case of an executing project, please inform of strong as well as improvement guidance or cessation orders for construction work /
<ul><li>☑ New Project</li><li>☐ Executing Project (without Claim etc.)</li></ul>	☐ Executing Project (with Claim etc.) ☐ Others (Please specify)
Q4. In case of this project, is it necessary to execut country where the project is to be implemented? If	e Environmental Impact Assessment (EIA) based on the laws or regulations of the necessary, please inform the progress of EIA.
☐ Required (completed) ☐ Not Required	<ul> <li>☐ Required (under execution or under planning)</li> <li>☐ Others (Please specify)</li> </ul>
Q5. In case that EIA is already completed, pleas assessment system of the country where the project date and name of authorities of the approval.	se inform whether EIA report is already approved based on the environmental t is to be implemented or not. If EIA report is already approved, please provide the
☐ Approved (without condition) ☐ Under approval process	☐ Approved (conditional) ☐ Others (Please specify)
Date of Approval: Name of Authorities:	

	If environmental permit(s) other than EIA is re ired permit(s)?	quir	ed, please provide the name of required pennit(s). Have you obtained
	Obtained		Required, but not obtained yet
	Not required     ■		Others (Please specify)
N	ame(s) of required permit(s):		
Q7.	Will the loan be used for the undertaking that elation with specific project, or Two Step Loan	carun that	ot specify the project at this stage (e.g. export or lease of machinery that has cannot specify the project at the time of loan agreement)?
	No		
	ou answered "Yes", it is not necessary to reply ou answered "No", please reply to the following		
Q8.	Are there any environmentally sensitive area s	how	n below in and around project site?
	Yes		
	ou answered "Yes", please select applicable iter ou answered "No", please reply to questions 9		
	populations, heritage sites, etc.)  (2) Primeval forests, tropical natural forests.  (3) Ecologically important habitats (mang	sts grove ch p creas	rotection is required under local laws and international agreements. e in soil salinity or soil erosion
Q9.	Does the project involve following characteris	tics/	
	No		
If yo	ou answered "Yes", please describe the scale on ou answered "No", please reply to questions 11	app and	licable characteristics, and reply to the questions 10 and after. after,
	(1) Involuntary resettlement (Number of reset (2) Pumping of groundwater (Scale: m³/year) (3) Land reclamation, development and/or cle (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)
Not applicable
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)
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)?
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.
<ul> <li>☐ (1) Mining</li> <li>☐ (2) Oil and natural gas development</li> <li>☐ (3) Pipelines</li> <li>☐ (4) Iron and steel (projects that include large furnaces)</li> <li>☐ (5) Non-ferrous metals smelting and refining</li> <li>☐ (6) Petrochemicals (manufacture of raw materials; including complexes)</li> <li>☐ (7) Petroleum refining</li> <li>☐ (8) Oil, gas and chemical terminals</li> <li>☐ (9) Paper and pulp</li> <li>☐ (10) Manufacture and transport of toxic or poisonous substances regulated by international treaties, etc.</li> <li>☐ (11) Thermal power</li> <li>☐ (12) Nuclear power</li> <li>☐ (13) Hydropower, dams and reservoirs</li> <li>☐ (14) Power transmission and distribution lines involving large-scale involuntary resettlement, large-scale logging or submarine electrical cables</li> <li>☐ (15) Roads, railways and bridges</li> <li>☐ (16) Airports</li> <li>☐ (17) Ports and harbors</li> <li>☐ (18) Sewage and wastewater treatment having sensitive characteristics or located in sensitive areas or their</li> </ul>
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.

The total emplot project area is approximately 3,055,000 m $^2$ . The area allocated to plants and buildings is approximately 1,744,000m $^2$ 

The Barzan Project will provide for the following production capacity:

☐ HP and MP Sales Gas: 2,130 MMscfd
☐ Ethane: 90 MMscfd
☐ Propane: 1,548 MT/d

- Butane: 1,156 MT/d
- ☑ Plant Condensate: 9,315 Bbl/d
  ☑ Field Condensate: 39,795 Bbl/d
  ☑ Sulfur: 5,799 MT/d

Units:

MMscfd: Million standard cubic feet per day MT/d: Metric tonnes per day

Bbl/d: Barrels per day

Execution of an EIA is required by the State of Qatar Ministry of Environment for large scale projects such as the Barzan Project. Refer to the Ministry of Environment 2005 Executive By Law No.4 of Law 30 of 2002 that provides a list of categories of projects for which an EIA is required.