Japan Bank for International Cooperation

Environmental Examination Report

(1) Project Name

Development of gas field and construction / operation of LNG plant

(2) Project Site

Yamal Peninsula, Russian Federation

(3) Project Outline

Development of gas field and construction / operation of LNG plant

(4) Category Classification

Category A

(5) Reason for Classification

The project includes sensitive characteristics and is located in or near sensitive areas under the Environmental Guidelines.

(6) Environmental Permits and Approvals

Environmental approval for Environmental Social Impact Assessment has been issued by competent authority with some conditions.

(7) Pollution Mitigation Measures

It is confirmed that air quality, water quality, waste, noise, vibration, soil contamination, land subsidence, odor and bottom sediment are properly managed.

(8) Natural Environment

Appropriate measures are taken to avoid impacts to the natural environment.

(9) Social Environment

It is confirmed that no land acquisition and involuntary resettlement will occur.

($1\ 0$) International Standard IFC Performance Standard

($1\ 1$) Others, Monitoring

Taking the above environmental review into consideration, JBIC will monitor environmental permits, ecosystem and working conditions including occupational safety.

Questions

Q1. Please provide the address of the project site.

Address of the project site: Yamal Region, Yamal-Nenets Autonomous District, Russian Federation_

Q2. Please provide brief explanation of the project. Built and Operate a LNG 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.

	X	New Project		Executing Project (with Claim etc.)	
		Executing Project (without Claim etc.)		Others (Please specify)
laws	or			Environmental Impact Assessment (EIA) bas s to be implemented? If necessary, please i	
		Required (completed) Not Required		Required (under execution or under planning) Others (Please specify)
envi	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.				
	X	Approved (without condition) Under approval process		Approved (conditional) Others (Please specify)

Date of Approval: _

	Design Documentation, incl EIA	Date of approval by SEER	Date of approval by
		00 E	GlavGosExpertise
1.	LNG Plant construction	28.12. 2012	15.03. 2013
2.	Drilling of development wells (depth	12.03.2013	03.04. 2013
	3550m)		
3.	Drilling of development wells (depth	12.03.2013	03.04. 2013
	4350m)		
4.	Sea port construction (Early stage	28.03.2012	01.06.12
•	facilities)		
5	Sea port construction (Main facilities)	22.08.2013	25.09.2013
6.	Sea port construction (Amended)	17.02.2014	30.04.2014
7.	Construction Camp	01.02.2012	07.06.12
8.	Airport construction	n/a	14.12. 2012

Name of Authorities: <u>The Federal Supervisory Natural Resources Management Service (Rosprirodnadzor),</u> Federal Independent Body "Head Department of State Expert Review" (GlavGosExpertise)

Q6. If environmental permit(s) other than EIA is required, please provide the name of required permit(s). Have you obtained required permit(s)?

	X Obtai □ Not	ned required		Required, but not obtained yet Others (Please specify)	
		required permit(s): The Project will and operation. Please see Attachmen		uire other environmental permits (in addition to the	EIA)	
	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	o)				
		d "Yes", it is not necessary to reply to d "No", please reply to the following				
Q8.	Are there	e any environmentally sensitive area s	hov	vn below in and around project site?		
	(Yes/N	[θ)				
		d "Yes", please select applicable item d "No", please reply to questions 9 ar		y marking, and reply to following questions.		
	□ X □ (2)	National parks, protected areas desiminorities or indigenous populations Primeval forests, tropical natural for	, he	_	ts of	
	□ X □ (4)	Ecologically important habitats (corr Habitats of endangered species of w agreements.		efs, mangrove, tidal flats, etc.) n protection is required under local laws and internat	ional	
	☐ (5) ☐ (6)	Areas that have risks of large scale is Desertification areas	ncre	ease in soil salinity or soil erosion		
	□ x □ x	Areas with special values from archa		ogical, historical and/or cultural viewpoints ations, nomadic people with traditional life style, or a	areas	
Q9.	Does the	project involve following characteris	tics	?		
	(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.						
	□ (2) □ X	Involuntary resettlement (Number Pumping of groundwater (Scale: Land reclamation, development and Deforestation (Scale:		m ³ /year)		
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 (La	and development projects typically re	_ quir	They do not execution of EIAs)		

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
		Paper and pulp
	(10)	Manufacture and transport of toxic or poisonous substances regulated by international treaties, etc.
		Thermal power
	2 2	Nuclear power
		Hydropower, dams and reservoirs
	(14)	Power transmission and distribution lines involving large-scale involuntary resettlement, large-scale
_		logging or submarine electrical cables
		Roads, railways and bridges
		Airports
		Ports and harbors
	(18)	Sewage and wastewater treatment having sensitive characteristics or located in sensitive areas or their
	(10)	vicinity
		Waste management and disposal
		Agriculture involving large-scale land-clearing or irrigation
	2 5	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.

MATERIAL ENVIRONMENTAL PERMITS¹

1. Material Environmental Permits obtained or to be obtained before Financial Close

No.	Regulatory Approval	Permit Holder
1.	Positive conclusion by the Expert Commission of the State Environmental Expert Agency on the facility design documentation package (i.e. Russian State Environmental Expertise) relating to certain of the Initial Project Facilities, including aspects of the LNG Complex, the Upstream Facilities, the General Infrastructure and the Marine Facilities	Borrower
2.	Resolution to provide a water body for use for hydraulic structures with respect to mooring berth at the Marine Facilities – for construction	Borrower
3.	Water use contracts with Department of Natural Resources of YNAO to intake water from the water body for household needs – for construction	Borrower
4.	Projects of sanitary protection zones in intended water intake locations (i.e. Glubokoe Lake, Nameless Lake) – for construction	Borrower

2. Material Environmental Permits to be obtained after Financial Close

No.	Regulatory Approval	Permit Holder
1.	Waste water discharge permits – for construction	Construction Subcontractors
2.	Air emissions permits – for construction	Construction Subcontractors
3.	Waste disposal permits – for construction	Construction Subcontractors
4.	License to operate explosive, fire and chemically hazardous production facilities of hazard classes I, II and III – for operations	Borrower/Airport Subsidiary/Third party operators
5.	Air emissions permit – for operations	Borrower/Airport Subsidiary/Third party operators
6.	Waste water discharge permit – for operations	Borrower/Airport Subsidiary/Third party operators
7.	Resolution to provide a water body for use for hydraulic structures with respect to mooring berth in the Seaport –for operations	Borrower

Approvals cover all Project-related facilities (LNG Plant, Seaport and Airport) unless specifically noted otherwise.

No.	Regulatory Approval	Permit Holder
8.	Resolution to provide a water body for use for the purpose of waste water discharge into the water body – for operations	Borrower/Airport Subsidiary/Third party operators
9.	Projects of sanitary protection zones in intended water intake locations (i.e. Ob Gulf)– for operations	Borrower
10.	Water use contract with Department of Natural Resources of YNAO to intake water from the water body for domestic, potable and production needs of the Project facilities – for operations	Borrower
11.	Waste disposal limits and projects of waste generation quotas (for solid domestic waste disposal) – for operations	Borrower/Airport Subsidary /Third party operators
12.	License to carry out activities on collection, use, treatment and disposal of wastes of hazard classes I-IV – for operations	Borrower/Airport Subsidary /Third party operators