

Environmental Examination Report

(1) Project Name

Manufacturing of sheet glass for solar panel

(2) Project Site

State of Ohio, United States of America

(3) Project Outline

Manufacturing of sheet glass for solar panel

(4) Category Classification

B

(5) Reason for Classification

The project does not include sensitive characteristics nor is located in or around any environmentally sensitive areas or does not significant impact on human rights under the Guidelines.

(6) Environmental Permits and Approvals

Pursuant to the national laws and regulations, an approval process of the ESIA report by the authorities is not required for this project.

(7) Pollution Mitigation Measures

Planned values of air quality, water quality, waste, noise and vibration are properly managed in accordance with local standards.

(8) Natural Environment

Appropriate measures are taken to avoid ecological impacts.

(9) Social Environment

The project does not involve involuntary resettlement.

(1 0) International Standard

IFC Performance Standards

(1 1) Others, Monitoring

JBIC will, if necessary, request Borrower to report the status of the environmental and social considerations on this project.

Questions

Q1. Please provide the address of the project site.

Address of the project site :

Troy Township Ohio. South of Garfield road and east of Pemberville road in the southern portion of the Eastwood Commerce Center.

Q2. Please provide brief explanation of the project.

Falcon is a green field 550 metric ton per day coating capable float plant that will expand NSG capacity to produce low iron transparent conductive oxide coated products. Falcon will be purpose built to supply coated glass for First Solar's Series 6 product.

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.

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

Q4. In case of this project, is it necessary to execute Environmental and Social Impact Assessment (ESIA) based on the laws or regulations of the country where the project is to be implemented? If necessary, please inform the progress of ESIA.

- | | |
|--|---|
| <input type="checkbox"/> Required (completed) | <input type="checkbox"/> Required (under execution or under planning) |
| <input checked="" type="checkbox"/> Not Required | <input type="checkbox"/> Others (Please specify) |

Q5. In case that ESIA is already completed, please inform whether ESIA report is already approved based on the environmental and social assessment system of the country where the project is to be implemented or not. If ESIA 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 type="checkbox"/> Under approval process | <input checked="" type="checkbox"/> Others (Please specify - Not Required) |

Date of Approval : _____

Name of Authorities : _____

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

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Obtained | <input checked="" type="checkbox"/> Required, but not obtained yet |
| <input type="checkbox"/> Not required | <input type="checkbox"/> Others (Please specify) |

Name(s) of required permit(s) : Air (Pre-construction & Title V Operating), Waste Water and Storm Water

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(s) shown below in and around project site(s)?

(Yes/No)

If you answered "Yes", please select applicable items by marking, and reply to the following questions.
If you answered "No", please reply to the questions 9 and after.

- (1) National parks, nationally-designated protected areas (coastal areas, **wetlands**, areas for ethnic minorities or indigenous people, and cultural heritage, etc. designated by national governments)
- (2) Forests with important ecological value (including primary forests and natural forests in tropical areas)
- (3) Habitats with important ecological value (including coral reefs, mangrove, **wetland** and tidal flats.)
- (4) Habitats of rare species requiring protection under domestic legislation, international treaties, etc.
- (5) Areas in danger of large-scale salt accumulation or soil erosion
- (6) Areas with a remarkable tendency towards desertification
- (7) Areas with unique archaeological, historical or cultural value
- (8) Areas inhabited by ethnic minorities, indigenous peoples or nomadic peoples with traditional ways of life(including areas which are used for cultural or spiritual purposes) and other 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 the questions 11 and after.

- (1) Involuntary resettlement and/or loss of means of livelihood (Number of affected people: 0)
- (2) Pumping of groundwater (Scale: 0 m³/year)
- (3) Land reclamation, development and/or clearing (Scale: 52.6 ha)
- (4) Deforestation (Scale: Project will involve selective tree clearing of <1 ha)

Q10. Under the environmental and social impact assessment system of the country where the project is to be implemented, do the applicable characteristics from (1) – (4) of the questions 9 above and their scale serve as basis for executing an ESIA for the project?

- They do They do not
- Others (Please specify)

Q11 May the project involve significant social impacts?

(Yes/No)

If you answered "Yes", please describe the outline of the impacts, and reply to the questions 12 and after.
If you answered "No", please reply to the questions 12 and after.

- The likelihood of severe project-related human rights impacts ()
 Others ()

Q12. 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 the questions 13 and after.

Q13. Does the project belong to either of the sectors that impact on the environment and society is deemed immaterial or is not anticipated under normal conditions (e.g. maintenance of the existing facilities, non-expansionary renovation project, and acquisition of rights and interests without additional capital investment)?

(Yes No)

If you answered "Yes", it is not necessary to reply to the following questions.
If you answered "No", please reply to the questions 14 and after.

Q14. Does the project belong to the following sectors?

(Yes No)

If you answered "Yes", please specify the sector by marking, and reply to the questions 15 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) Cement plants (including a greenfield quarry)
- (11) Manufacture and transport of toxic or poisonous substances regulated by international treaties, etc.
- (12) Thermal power
- (13) Nuclear power
- (14) Hydropower, dams and reservoirs
- (15) Power transmission and distribution lines involving large-scale involuntary resettlement, large-scale logging or submarine electrical cables
- (16) Roads, railways and bridges
- (17) Airports
- (18) Ports and harbors
- (19) Sewage and wastewater treatment having sensitive characteristics or located in sensitive areas or their vicinity
- (20) Waste management and disposal
- (21) Agriculture involving large-scale land-clearing or irrigation
- (22) Forestry
- (23) Tourism (construction of hotels, etc.)

Note: The Flat Glass industry does not fall under the sectors identified above. The Flat Glass industry falls under the general classification of Stone, Clay, Glass and Concrete Products (US Standard Industrial Classification (SIC) Code of 32 – specifically SIC Code 3211 (Flat Glass).

Q15. Please provide information on the scale of the project. Further, please explain whether an execution of ESIA is required on account of the large scale of the project in the country where the project is implemented.

Scale of Project

Project area = 52.6 ha, area of plants

Buildings = 51 m²

Production capacity = 130k tonnes of coated glass, amounts of power generation,

Further explanation is Not applicable as "No" to 14 above.