

Environmental Examination Report

- ( 1 ) Project Name  
Thermal Power Plant Project
- ( 2 ) Project Site  
Dar es Salaam, the United Republic of Tanzania
- ( 3 ) Project Outline  
Construction of a gas-fired combined cycle power generation plant
- ( 4 ) Category Classification  
A
- ( 5 ) Reason for Classification  
The project falls into the thermal power plant sector under the Environmental Guidelines and has a sensitive characteristic under the Environmental Guidelines.
- ( 6 ) Environmental Permits and Approvals  
The Environmental Impact Assessment (EIA) report on this project was prepared in compliance with the Tanzanian laws and regulations. A part of the EIA report which is related to the power station was approved by Vice President's Office of Tanzania on April 23<sup>rd</sup> 2012, and the other part related to the relevant transmission lines was approved by Vice President's Office of Tanzania on June 7<sup>th</sup> 2007, respectively.
- ( 7 ) Pollution Mitigation Measures  
The planned values for air/water quality, noise and vibration comply with the World Bank standards as well as the local standards, and the waste will be treated properly.
- ( 8 ) Natural Environment  
It is confirmed that the appropriate measures will be taken for protection of the natural environment.

( 9 ) Social Environment

It is confirmed that the appropriate measures have been taken for local people who are economically affected by the project.

( 1 0 ) International Standard

World Bank – Safe Guard Policy

( 1 1 ) Others, Monitoring

Taking the above environmental review into consideration, JBIC will monitor compliance status of the conditions attached to the EIA, the presence or absence of problems/complaint regarding impacts on underground water usage drawn by the local residents and the presence or absence of problems regarding impacts on ecosystem pointed out by the Federal/Local authority.

## Questions

**Q1.** Please provide the address of the project site.

Address of the project site : Kinyerezi, Ilala Municipality, Dar es Salaam ,Tanzania

**Q2.** Please provide brief explanation of the project.

This project is a gas based 240 MW Combined Cycle Power Plant Project.

**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 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.

- |   |  |
|---|--|
| <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 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.

- |  |   |
|--|---|
| <input type="checkbox"/> Approved (without condition)      | <input type="checkbox"/> Approved (conditional) |
| <input checked="" type="checkbox"/> Under approval process | <input type="checkbox"/> Others ( )             |

Date of Approval : \_\_\_\_\_

Name of Authorities : Vice Presidents office issues EIA Certificate based on recommendation of National Environment Management Council

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

- |  |   |
|--|---|
| <input type="checkbox"/> Obtained                | <input type="checkbox"/> Required, but not obtained yet |
| <input checked="" type="checkbox"/> Not required | <input type="checkbox"/> 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: N/A (now under researching) m<sup>3</sup>/year)
- (3) Land reclamation, development and/or clearing (Scale: 100 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-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
- (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.

(i) Project Area: 1km × 1km

(ii) Area of plants and buildings: approximately 300m × 500m

(iii) Power Plant Configuration:

a. Two (2) blocks of Combined Cycle Power Plant

b. Each block consists of three (3) gas turbines, three (3) heat recovery steam generators (HRSGs), one (1) steam turbine and other associated auxiliaries.

(iv) Capacity: Each block produce approximately 120 MW (i.e. total approximately 240 MW)