

環境チェックレポート

- ( 1 ) プロジェクト名  
超臨界圧石炭火力発電所プロジェクト
- ( 2 ) 実施場所  
インド/ウッタープラデッシュ州
- ( 3 ) プロジェクト概要  
超臨界圧石炭火力発電所の建設
- ( 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、影響を及ぼしやすいセクター(火力発電セクター)に該当し、環境ガイドラインに掲げる影響を及ぼしやすい特性をもつため。
- ( 6 ) 環境許認可  
同国制度に基づき EIA 報告書が作成され、2011 年 1 月 10 日付で環境  
森林省より付帯条件付きで承認所得済である。また EIA 報告書作成過程  
において、住民等へ説明会を実施済。
- ( 7 ) 汚染対策  
大気質、水質、騒音の計画値は、現地基準を満たし、世銀基準を概ね満  
たすと共に、廃棄物に対しては適切な措置が講じられている旨、確認され  
ている。
- ( 8 ) 自然環境面  
自然環境面への影響に対して、適切な対策が講じられている旨、確認さ  
れている。
- ( 9 ) 社会配慮面  
本プロジェクトにより移転を含む社会経済的な影響を受ける住民への  
配慮について対応計画が策定され、適切な措置が講じられている旨、確認  
されている。

( 1 0 ) 適用国際基準

世界銀行・セーフガードポリシー

( 1 1 ) その他・モニタリング

上記の環境レビューを踏まえ、EIA 報告書の承認に係る付帯条件の遵守状況、大気質、水質及び用地取得・住民移転・補償実施状況等について、モニタリングを行う予定である。

以 上

## Questions

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

Address of the project site:

The project site is located near Kohdar, Mai Khurd and Patai Dandi villages of Meja Tehsil in Allahabad district in the state of Uttar Pradesh in India, at the following address:

Meja Thermal Power Project  
Village - Kohdar Ghat, Tehsil-Meja  
District - Allahabad (Uttar Pradesh)

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

Meja Thermal Power Project (MTPP) is a coal based thermal power project based on super critical technology. The ultimate capacity of the project shall be 2640 MW, to be implemented in two stages on 2x660 MW each. The present proposal is for implementation of Stage-I of the project with 2x660 MW units. The Project is being set up mainly for meeting the power demand of UP and other states and union territories in the Northern Region.

**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"/> <b>New Project</b>          | <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 checked="" type="checkbox"/> <b>Required (completed )</b> | <input 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.

- Approved (without condition)**     Approved (conditional)  
 Under approval process                       Others (Please specify)

Date of Approval: **January 10, 2011**

Name of Authorities: **Ministry of Environment and Forests (MoEF), Government of India**

**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): Yes. Apart from environmental clearance from MOEF, No Objection Certificate from UP Pollution Control Board is also required, which has been accorded vide letter dated 19.09.2011.

**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

There are no habitats of endangered species around project site (10 km. radius). However, according to Forest Department, few numbers of Black Bucks were observed. A conservation plan for the same has been prepared in consultation with State Forest Department and the same is under implementation.

**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: 72 in two villages R&R Plan already prepared by Project Proponent in consultation with stake holders and State Govt. and the same is under implementation)
- ✓2. Pumping of groundwater (Scale: About 38760 m<sup>3</sup>/year for construction activities during construction phase only. During operation phase, no ground water shall be extracted and used.)
- ✓3. Land reclamation, development and/or clearing (Scale: 1118.50 ha)
- 4. Deforestation (Scale:)

**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.

The total area required for ultimate capacity of the project (2x660 MW + 2x660 MW) towards plant and buildings, employee township and other facilities is about 2,763 acres (1118.5 ha) as per following break up:

*Land Requirement for Project(Phase I and Phase II)*

	<b>Description</b>	<b>Land (Acres)</b>
1.	Main Plant	610
2.	Green Belt	150
3.	Raw Water Reservoir	185
4.	Railway Siding	200
5.	Ash Disposal Area	746
6.	Township	210
7.	Other Facilities	662
	<b>Total</b>	<b>2,763</b>

The project is envisaged with an installed capacity of 1320 MW (2 x 660 MW) in phase I which corresponds to sale of approx. 9.2 billion units per annum.

As per the Indian Law, EIA is mandatory for this project.