

環境チェックレポート

(1) プロジェクト名

廃棄物発電事業

(2) 実施場所

インド共和国 カルナータカ州

(3) プロジェクト概要

廃棄物発電事業（廃棄物発電設備の建設・運営）

(4) カテゴリ分類

カテゴリ B

(5) カテゴリ分類の根拠

本事業は、環境ガイドラインに掲げる廃棄物処理・処分セクターのうち大規模なものに該当せず、環境社会への望ましくない影響は重大でないと判断され、かつ影響を及ぼしやすい特性を持たず、影響を受けやすい地域またはその近傍に立地しないため。

(6) 環境許認可

本プロジェクトは、同国の環境影響評価制度上、環境影響評価制度の対象となる事業ではない。

(7) 汚染対策

大気質、水質、廃棄物、土壌汚染、騒音・振動、地盤沈下及び悪臭について、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

本プロジェクトサイト内及び近傍地域に保護区は存在しない。また、近隣に生態学的に重要な森林、及び同国の法律・国際条約等で保護が必要とされている貴重種等の生息地は存在しない。

(9) 社会配慮面

地域住民の生活・生計に関して特段の懸念はない。また、本プロジェクトにより非自発的住民移転は発生しない。

(10) 適用国際基準

IFC パフォーマンススタンダード

(11) その他・モニタリング

発電所操業許可の取得状況についてモニタリングを実施する予定である。

以 上

Q1. Please provide the address of the project site.

Address of the project site : KPCL Bidadi Site, Bidadi, Ramanagara, Karnataka

Q2. Please provide a brief explanation of the project.

11.5 MW Waste to Energy project at Bidadi by using 600TPD of segregated municipal solid waste

Q3. Is it a new project to be implemented or a project that has been implemented? If it has been implemented, has it received a serious complaint from local residents or a directive for improvement, a stop-work order, a project suspension order, etc., from a local environmental authority?

- New project to be implemented
 Project that has been implemented (with a complaint)
 Project that has been implemented (without a complaint)
 Other ()

Q4. Do the laws or regulations of the country where the project will be implemented require the project to conduct environmental and/or social impact assessments (such as an Environmental and Social Impact Assessment (ESIA) and Environmental Impact Assessment (EIA))? If so, have they been conducted or planned?

- Required (Assessments done) Required (Assessments in progress or being planned)
 Not Required Other ()

Q5. If environmental and/or social impact assessments have been conducted, have they been approved in accordance with the environmental and social impact assessment system of the country where the project will be implemented? If so, please also specify the date of the approvals and the name of the authorities.

- Approved (without condition(s)) Approved (with condition(s))
 Under approval process Other ()

Date of Approvals : _____

Name of Authorities : _____

Q6. Are there any environmental permits required other than environmental and/or social impact assessments? If so, have they been obtained? Also, if required, please specify the name of the permits.

- Obtained Required, but not obtained yet
 Not required Other ()

Name(s) of required permit(s) :

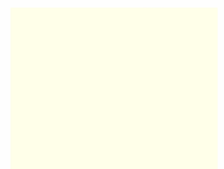
1. Consent for Establishment: obtained from KSPCB vide order No. CTE-321742 dated 20.11.2020
2. NOC for height clearance from AAI: Applied and NOC awaited.

Q7. Will the project be specified after JBIC made a funding commitment (as in the case of a two-step loan, where sub-projects cannot be specified at the time of a funding commitment)?

(Yes / No)

If "Yes", please disregard the following questions.

If "No", please go to Q8.



Q8. Will JBIC's funding be used to serve as support for international balance of payments or to be used for the provision of goods or services that does not involve installation or implementation in particular sites or regions, as in the case of export/import or lease of machinery or equipment that is not connected with a particular project?

(Yes / No)

If "Yes", please disregard the following questions.

If "No", please go to Q9.

Q9. Are there any environmentally sensitive area(s) shown below in or near the project site(s)?

(Yes / No)

If "Yes", please mark the applicable items and go to Q10.

If "No", please go to Q10.

- (1) National parks, nationally-designated protected areas (coastal areas, wetlands, areas for ethnic minorities or indigenous peoples, 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 wetlands, 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 and spiritual purposes) and other areas with special social value

Q10. Does the project involve the following characteristics?

(Yes / No)

If "Yes", please specify their scale and go to Q11.

If "No", please go to Q12.

- (1) Involuntary resettlement or loss of means of livelihood (Number of affected people: _____)
- (2) Groundwater pumping (Scale: _____ m³/year)
- (3) Land reclamation, land development, and land clearing (Scale: _____ ha)
- (4) Logging (Scale: _____ ha)

Q11. Under the environmental and social impact assessment system of the country where the project will be implemented, do the applicable characteristics (1) – (4) of Q10 above and their scale serve as the basis for executing an ESIA for the project?

- Yes, they do
- No, they do not
- Other (_____)

Q12. Is the project likely to have a significant social impact, including human rights?



(Yes / No)

If "Yes", please describe the impacts and go to Q13.

If "No", please go to Q13.

- Likelihood of a significant impact on human rights ()
- Other ()

Q13. Will JBIC's funding or NEXI's insurable value be equal to or less than 5% of the total project cost, or will JBIC's funding or NEXI's insurable value be equal to or less than SDR 10 million? (If the funding or insurable value is additional to a project that has been supported by JBIC or NEXI, please add up the previous funding or insurable value and the funding or insurable value being considered to apply for this time.)

(Yes / No)

If "Yes", please disregard the following questions.

If "No", please go to Q14.

Q14. Is the project for capital investment or working capital in a project that has been implemented and does it involve no material change in output or function (as in the case of maintenance of the existing facilities, non-expansory renovation project, and acquisition of rights and interests without additional capital investment)?

(Yes / No)

If "Yes", please disregard the following questions.

If "No", please go to Q15.

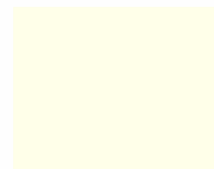
Q15. Is the project in any of the following sectors?

(Yes / No)

If "Yes", mark the applicable sectors and go to Q16.

If "No", please disregard the following question.

- (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.)

Q16. Please provide information on the scale of the project (project area, area of plants and buildings, production capacity, amounts of power generation, etc.). In addition, please explain whether an environmental and/or social impact assessment is required on account of the large scale of the project in the country where the project will be implemented.

- The project is under implementation in an industrial area at Bilekempanahalli Village, Bidadi, spread over ~10 acres.
- Project capacity: 11.5 MW
- Technology: Incineration Technology (using Moving Grate)
- Fuel: 600TPD of Segregated MSW / RDF
- Estimated Annual generation: 75.55 MUs, @75% PLF
(PLF of 50% in year 1 and rising in increments of 5% every year till it reaches 75%)
- Environmental Norms: As per MSW Rules, 2016
ESIA not required as capacity is below 15 MW
CFE obtained from KSPCB on 20/Nov/2020
- Water: 300 kLD
- Water source: From Kaveri river through KIADB
or STP water from BWSSB Doddabele STP