

CDM Project Activity Registration and Validation Report Form

(By submitting this form, designated operational entity confirms that the proposed CDM project activity meets all validation and registration requirements and thereby requests its registration)

Section 1: Request for registration			
TÜV NORD CERT GmbH			
Alto-Tiete landfill gas capture project			
EMPREITEIRA PAJOAN LTDA, Sao Paulo, Brazil BGC International, London, UK			
13 – Waste handling and disposal			
Is the proposed project activity a small-scale activity?			
	TÜV NO Alto-Tie EMPRE BGC In		

Section 2: Validation report

List of documents to be attached to this validation report (please check mark):

- An explanation by the submitting designated operational entity of how it has taken due account of comments on validation requirements received, in accordance with the CDM modalities and procedures, from Parties, stakeholders and UNFCCC accredited non-governmental organizations;
- The written approval of voluntary participation from the designated national authority of each Party involved, including confirmation by the host Party that the project activity assists it in achieving sustainable development:
 - o (Attach a list of all Parties involved and attach the approval (in alphabetical order))
- Other documents, including any validation protocol used in the validation
 - o (comprehensive list of documents attached clearly referenced)
 - List of persons interviewed by DOE validation team during the validation process
 - Any other documents. Please specify.
- Information on when and how the above validation report is made publicly available.
- Banking information on the payment of the non-reimbursable registration fee
- A statement signed by all project participants stipulating the modalities of communicating with the Executive Board and the secretariat in particular with regard to instructions regarding allocations of CERs at issuance

Executive Summary and Introduction, including

- Description of the proposed CDM project activity
- Scope of validation process (include all documentation that has been reviewed and name persons that have been interviewed as part of the validation, as applicable)
- DOE Validation team (list of all persons involved in the validation, describing functions assumed in the validation)

Description of the proposed CDM project activity

The project activity involves the installation of a gas collection and flaring system (enclosed flares) through a network of pipes connected to the wellheads at the already existing cells and at the new cells in parallel to the waste disposal.

The gas collection system will be composed by vertical progressive drains to extract gas. The drains are equipped with gas sensors (sampling points) to monitor the landfill gas flux and quality in order to analyse the trace gases.

This project activity is expected to reduce CO₂ emissions over the chosen 07-year "renewable crediting period" of 1,657,885 tCO_{2e} starting at January 2007 and lasting until December 2013.

Scope of the validation process

The validation scope is given as an independent and objective review of the project design, the project's baseline study and monitoring plan which are included in the PDD and other relevant supporting documents.

The items covered in the validation are listed below:

- UNFCCC & Host Country Criteria
- CDM Project Description
- Project Baseline
- Monitoring Plan
- Background investigation and follow up interviews
- Global Stakeholder consultation
- Draft validation reporting with CARs & CRs
- Final validation reporting.

The information included in the PDD and the supporting documents were reviewed against the requirements and criteria mentioned above. The TÜV NORD JI/CDM CP has, based on the recommendations in the Validation and Verification Manual, employed a risk-based approach in the validation, focusing on the identification of significant risks for project implementation and the generation of CERs. The validation is based on the information made available to TÜV NORD and on the contract conditions.

Persons that have been interviewed are Mr. Roberto Kishi (Empreiteira Pajoan Ltd., Technical Operator), Mr. Francisco J. P. de Oliveira (Epal Fral Consultoria Ltd., Engineer – Director), Mr. Alejandro Bango and Mr. Paulo Zanardi (Ecológica Assessoria – Consultant), Mr. Cristiano Kengi and Ms. Josilene Ferrer (CETESB – Expert).

The following documents were provided by the project participant and reviewed throughout the validation process:

- Voucher annotation of letter by local stakeholders
- Installation Licence (CETESB) #000.671 (11th Dec'00)
- Model letter to stakeholders (13th April'06 letter to Geosciences Institute)
- Monitoring Reports: XLIX dt 2006-01 / dt 2006-02 / water analysis dt 2005-09
- Operation Licence (CETESB) #26000941 (10th April'06)
- Project Design Document "Alto-Tiete landfill gas capture project" (hosted for public comments during 04 Mar'06 to 12 April'06).
- Final Project Design Document "Alto-Tiete landfill gas capture project"
- Technical Project Descriptive Petition (maps dt 2006-02)

For purpose of background information additional documents were reviewed. For details please refer to the validation report.

DOE validation team

The validation team was led by Mr. Rainer Winter. Mr. Winter works at TÜV NORD CERT GmbH as ISO 9001 and ISO 14001 auditor, as an environmental verifier for EMAS and as a DEHSt-appointed emission verifier in the framework of the EU-ETS. Mr. Winter has been appointed as JI/CDM assessor and is in charge of the TÜV NORD JI/CDM CP. For this validation he was assisted by:

Maria Carolina Crisci Coelho, BRTÜV-Brazil (TÜV NORD Brazil), Mrs. Coelho is ISO 14001 auditor and Product Manager for CDM Services for BRTÜV. She is an appointed assessor for JI/CDM certification program of TÜV NORD CERT GmbH.

Dr. Ortrun Janson-Mundel, TÜV NORD CERT GmbH. Dr. Janson Mundel is ISO 9001/ISO 14001 auditor. She is an appointed expert for JI/CDM certification program of TÜV NORD CERT GmbH.

The validation report is verified by:

Mr. Wolfgang Wielpütz. He is ISO 9001 and 14001 auditor, environmental verifier for EMAS and DEHSt-appointed emission verifier in the framework of EU-ETS. He is appointed JI/CDM assessor. Mr. Wielpütz is the head of the department: "integrated management systems, environmental and occupational safety" and deputy chief of TÜV NORD CERT GmbH.

Description of methodology for carrying out validation

- Review of CDM-PDD and additional documentation attached to it
- Assessment against CDM requirements (e.g. by use of a validation protocol)
- Report of findings by the DOE, e.g. by use of type of findings (e.g. corrective action requests, clarifications or observations). Please explain the way findings are "labelled" during validation.
- Include statements or assessments in the section "Conclusions, final comments and validation opinion" below.

The validation of the project was carried out from March to June '06. The validation consisted of the following three phases:

- A desk review of the PDD (incl. annexes) and supporting documents with the use of a customised validation protocol according to the Validation and Verification Manual;
- Background investigation and follow-up interviews with personnel of the project proponent, the consultant, legal authorities and other stakeholders;
- Reporting of validation findings taking into account the public comments received on TÜV NORD website.

The report includes Corrective Action Requests and Clarification Requests (CAR and CR) identified in the course of this validation.

Throughout the validation 12 CARs and 10 CRs were raised.

The final validation started after issuance of proposed corrective action (CA) of these CAR and CR by the project proponent. The validator has assessed the proposed CA with a positive result and after the closure of these CAR and CR the project proponent has issued the final version of the PDD. On the basis of this the final validation report and opinion were issued.

In order to ensure consideration of all relevant assessment criteria, a validation protocol was used. The protocol shows, in a transparent manner, criteria and requirements, means of verification and the results from pre-validating the identified criteria. The validation protocol serves the following purposes:

- It organises, details and clarifies the requirements that a CDM project is expected to meet;
- It ensures a transparent validation process where the independent entity will document how a
 particular requirement has been validated and the result of the determination.

For further information according to the validation protocol see annex of the Validation Report.

Explanation by the submitting designated operational entity of how it has taken due account of comments on validation requirements received, in accordance with the CDM modalities and procedures, from Parties, stakeholders and UNFCCC accredited non-governmental organizations;

- Description of how and when the PDD was made publicly available
- Description of how comments were received and made publicly available
- Explanation of how due account has been taken of comments received
- Compilation of all comments received (Identify the submitter)

The PDD was made publicly available through TÜV NORD JI/CDM CP website <u>www.global-warming.de</u>. Comments on the PDD were invited within 30 days, i.e. 13 March 2006 to 12 April 2006.

No comments were received.

Conclusions, final comments and validation opinion

- Provide conclusions on each requirement under paragraph 37 of the CDM modalities and procedures, describing how these requirements have been meet. This shall include assessments and findings (e.g. corrective action requests, clarifications or observations) in relation to each requirement, including a confirmation that all issues raised have been addressed to the satisfaction of the DOE.
- Final comments and validation opinion

The review of the project design documentation and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and review of comments by parties, stakeholders and NGOs have provided TÜV NORD JI/CDM CP with sufficient evidence to validate the fulfilment of the stated criteria.

In detail the conclusions can be summarised as follows:

- The validation team is convinced that project is in line with all relevant host country criteria (Brazil) and all relevant UNFCCC requirements for CDM. Nevertheless the LoA's of both parties are pending
- The Brazilian DNA will only issue the host country approval on the basis of this positive validation opinion by the validator of the project. Thus the LoA could not be considered at the present validation stage.
- The project additionality is sufficiently justified in the PDD.
- The monitoring plan is transparent and adequate.

By submitting this validation report, the DOE

 The calculation of the project emission reductions is carried out in a transparent and conservative manner, so that the calculated emission reductions of 1,657,885 t CO_{2e} is most likely to be achieved within the first 7 y (renewable) crediting period.

The DOE declares herewith that in undertaking the validation of this proposed CDM project activity it has no financial interest related to the proposed CDM project activity and that undertaking such a validation does not constitute a conflict of interest which is incompatible with the role of a DOE under the CDM.

confirms that all validation requirements are met.				
Name of authorized officer signing for the DOE	Rainer Winter			
Date and signature for the DOE	2006-06-14	het		
Section below to be filled by UNFCCC secretariat				
Date when the form is received at UNFCCC secretar	iat			
Date at which the registration fee has been received				
Date at which registration shall be deemed final				
Date of request for review, if applicable				

F-CDM-REG

Date and number of registration	Date	Number