



## 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

<b>Name of the designated operational entity (DOE) submitting this form</b>	Det Norske Veritas Certification Ltd. (DNV)	
<b>Title of the proposed CDM project activity (Section A.1 of the attached CDM-PDD) submitted for registration</b>	Increasing the Additive Blend in cement production by Jaiprakash Associates Ltd (JAL).	
<b>Project participants (Name(s))</b>	Jaiprakash Associates Ltd.	
<b>Sector in which project activity falls</b>	Sectoral Scope Nr. 4	
<b>Is the proposed project activity a small-scale activity?</b>	Yes / <u>No</u> (underline as applicable)	

### Section 2: Validation report

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

- ☒ The CDM-PDD of the project activity
- ☒ 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:
  - (Attach a list of all Parties involved and attach the approval (in alphabetical order))
- ☒ Other documents, including any validation protocol used in the validation
  - Validation Report including a validation protocol and a list of persons interviewed by the validation team during the validation process
- ☒ 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 proposed CDM project activity by Jaiprakash Associates Ltd proposes to increase the percentage level of flyash, sourced from neighbouring thermal power plants and thereby reduce clinker in the production of Portland Pozzolana Cement (PPC) in three of its manufacturing units located in India. This increase in the blend of fly ash will reduce the clinker requirement and thus result in the reduction of fossil fuel used for clinker formation to the extent that it is replaced with fly ash. The increased use of fly ash in the cement also contributes to reduced environmental effects in the mining of limestone used for clinker manufacture.

The total estimated GHG reduction from all the three project activity sites of JAL is expected to be 33 608 t of CO<sub>2</sub>e per year. The following 3 sites are involved in the project:

<b>Cement Plant</b>	<b>Region</b>
Rewa plant	Madhya Pradesh
Bela plant	Madhya Pradesh
Sadva Khurd plant	Uttar Pradesh

• **Scope of validation process:**

The validation scope is defined as an independent and objective review of the project design document (PDD). The PDD is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board. The validation team has, based on the recommendations in the Validation and Verification Manual, employed a risk-based approach, focusing on the identification of significant risks for project implementation and the generation of CERs.

The validation is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design.

• **Documents reviewed:**

Jaiprakash Associates Ltd (JAL) - *Clean Development Mechanism Project Design Document – “Increasing the additive blend in cement production by Jaiprakash Associates Ltd (JAL)”* Version 1.1 of 5<sup>th</sup> December 2005 and its earlier version

Indian DNA, Host country approval letter, Dated 24 May 2006

International Emission Trading Association (IETA) & the World Bank's Prototype Carbon Fund (PCF): *Validation and Verification Manual*.

ACM0005 /Version 02/ 28 November 2005 Consolidated Baseline Methodology for Increasing the Blend in Cement Production Approved methodology

IPCC: *Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories*. 2000

• **Persons interviewed during the validation**

Mr. R.B. Singh (Finance),  
Mr. Alok Joshi (Production),  
Mr. P.Prakash (Marketing),  
Mr. R. Srivastava (Corporate representative),

Mr. A.Pandey and Mr. A. Sangal (Emergent Ventures)

• **DOE Validation team:**

Mr. Kumaraswamy C	DNV Certification Bangalore	Team Leader, GHG auditor
Mr. Santosh Jayaram	DNV Certification Colombo	GHG auditor, sector expert
Mr. Praveen Nagaraje Urs	DNV Certification Bangalore	GHG auditor
Mr. Amit Thusu	DNV Certification New Delhi	GHG auditor
Mr. Einar Telnes	DNV Certification Oslo	Technical reviewer

For further details, please refer to the "Introduction" and "References" Section of DNV's Validation Report (DNV Report 2005-9107, rev. 02).

**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 consisted of the following:

- I a desk review of the project design and the baseline and monitoring methodology
- II follow-up interviews with project stakeholders
- III the resolution of outstanding issues and the issuance of the final validation report and opinion.

In order to ensure transparency, a validation protocol was customised for the project, according to the Validation and Verification Manual. The protocol shows in transparent manner criteria (requirements), means of verification and the results from validating the identified criteria. The validation protocol serves the following purposes:

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

Findings established during the validation can either be seen as a non-fulfilment of validation protocol criteria or where a risk to the fulfilment of project objectives is identified. Corrective Action Requests (CAR) are issued, where:

- i) mistakes have been made with a direct influence on project results;
- ii) validation protocol requirements have not been met; or
- iii) there is a risk that the project would not be accepted as a CDM project or that emission reductions will not be certified.

The term Clarification is used where additional information is needed to fully clarify an issue.

*For further details, please refer to the "Methodology" Section of DNV's Validation Report (DNV Report 2005-9107, rev. 02) and the IETA/PCF Validation and Verification Manual ([www.vvmanual.info](http://www.vvmanual.info)).*

***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 has been published on DNV Certification's Climate Change website - <http://www.dnv.com/certification/climatechange/Projects/ProjectDetails.asp?ProjectId=312> on 25<sup>th</sup> October 2005. Parties, stakeholders and NGOs were through the UNFCCC CDM website invited to provide comments on the validation requirement during a period of 30 days from 26<sup>th</sup> October to 24<sup>th</sup> November 2004. No comments were received.

Please refer to the "Comments by Parties, Stakeholders and NGOs" Section of DNV's Validation Report (DNV Report 2005-9107, rev. 02) and the above mentioned CDM website.

***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 met. 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***

Det Norske Veritas Certification (DNV Certification) has validated the "Increasing the additive blend in cement production by Jaiprakash Associates Ltd (JAL)". The validation was performed on the basis of UNFCCC criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to the Kyoto Protocol criteria for the CDM, the CDM rules and modalities as agreed in the Marrakech Accords and relevant decisions by the CDM Executive Board.

The review of the project design documentation (PDD) and the subsequent follow-up interviews have provided DNV with sufficient evidence to determine the fulfilment of stated criteria.

Jaiprakash Associates Ltd is the only project participant in this project. The DNA of India has confirmed that the project assists in achieving sustainable development and has accorded the approval for the project.

The validation did not reveal any information indicating that the project can be seen as a diversion of ODA funding towards India.

The project activity will reduce clinker production and associated GHG emissions by displacing clinker with fly ash in the production of Pozzolana Portland Cement. Emissions arising from the calcination of limestone, fossil-fuel based kiln combustion and consumption of electrical energy will be reduced. By increasing the percentage of fly ash in the cement production, the project is expected to result in reductions of 33 609 tons of CO<sub>2</sub> equivalent per year that are real, measurable and gives long-term benefits to the mitigation of climate change. An analysis of relevant barriers demonstrates that the proposed project is not a likely baseline scenario and emission reductions are hence

additional to any that would occur in its absence.

The project correctly applies the approved baseline methodology ACM0005, "Consolidated Baseline Methodology for increasing the Blend in Cement Production". The baseline has been selected by determining the common prevailing clinker percentage of PPC in other manufacturing plants in the selected region that use similar raw material as the project and which face similar economic, market and technical circumstances. It is justified that the proposed project activity itself is not a likely baseline scenario.

In summary, it is DNV's opinion that the project as described in the PDD of December 2005 meets all relevant UNFCCC requirements for the CDM and correctly applies the approved baseline and monitoring methodology ACM0005. Hence, DNV requests the registration of the "Increasing the additive blend in cement production by Jaiprakash Associates Ltd (JAL)" as a CDM project activity.

For further details, please refer to DNV's Validation Report (DNV Report 2005-9107, rev. 02).

*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.*

By submitting this validation report, the DOE confirms that all validation requirements are met.

Name of authorized officer signing for the DOE

Susanne Haefeli

Date and signature for the DOE

5<sup>th</sup> June 2006



**1.1.1.1 Section below to be filled by UNFCCC secretariat**

Date when the form is received at UNFCCC secretariat

Date at which the registration fee has been received

Date at which registration shall be deemed final

Date of request for review, if applicable

Date and number of registration

Date

Number