 <p>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)</p>	
Section 1: Request for registration	
Name of the designated operational entity (DOE) submitting this form	TÜV Industrie Service GmbH TÜV SÜD Group
Title of the proposed CDM project activity (Section A.2 of the attached CDM-PDD) submitted for registration	CDM SOLAR COOKER PROJECT Aceh 1 INDONESIA
Project participants (Name(s))	- PT Petromat Agrotech, Indonesia - Klimaschutz e.V., Germany
Sector in which project activity falls	Energy industries (renewable- / non.renewable sources) (1)
Is the proposed project activity a small-scale activity?	<u>Yes</u> / No (underline as applicable)
Section 2: Validation report	
List of documents to be attached to this validation report (please check mark):	
<p>X The CDM-PDD of the project activity</p> <p>X 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. This explanation is included in the Validation Report No. 634269, rev. 02;</p> <p>X 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:</p> <p>X Other documents, including any validation protocol used in the validation <ul style="list-style-type: none"> o Validation Report (Validation Report No. 634269, rev. 02) including a validation protocol, information reference list and and a list of persons interviewed by DOE validation team during the validation process. </p> <p>X Information on when and how the above validation report is made publicly available.</p> <p>q Banking information on the payment of the non-reimbursable registration fee</p> <p>X 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</p>	

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)**

The “CDM SOLAR COOKER PROJECT Aceh 1, INDONESIA” aims to supply about 1000 households in the district of Sabang Islands/Aceh, Indonesia and in the city of Badar in Aceh Tenggara, Indonesia with solar cookers of the type K14 and herewith to reduce the consumption of non-renewable firewood and to avoid a further deforestation in the Aceh region.

Project participants are Klimaschutz e.V., Germany and PT Petromat Agrotech, Indonesia. Thus two Letters of Approval (LoA) are required for this project, a LoA issued by the DNA of Germany (country of the sponsor) and a LoA issued by the DNA of Indonesia as host country.

The project starting date is January 1st, 2006 and also the (first) 7 year non renewable crediting period starts January 1st, 2006.

The validation scope is defined as an independent and objective review of the project design document, the project’s baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations. TÜV SÜD 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 not meant to provide any consulting towards the client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project design.

The audit team has been provided with a draft PDD in April 2005. After a first document review (pre-check) and a first meeting in Munich a revised PDD was submitted in June 2005, which has been published in the Global Stakeholder Process. Based on this documentation an intensive document review and a fact finding mission in form of an on site audit has taken place. Afterwards the client decided to revise the PDD according to the CARs and CRs indicated in the audit process. The final PDD version submitted in October 2005 (October 10th, 2005) serves as the basis for the assessment presented herewith.

Studying the existing documentation belonging to this project, it was obvious that the competence and capability of the validation team has to cover at least the following aspects:

- Ø Knowledge of Kyoto Protocol and the Marrakech Accords
- Ø Environmental and Social Impact Assessment
- Ø Skills in environmental auditing (ISO 14000, EMAS)
- Ø Quality assurance
- Ø Technical aspects of solar cooking systems
- Ø Monitoring concepts
- Ø Political, economical and technical random conditions in host country

According to these requirements TÜV SÜD has composed a project team in accordance with the appointment rules of the TÜV certification body “climate and energy”:

Thomas Kleiser is project manager and lead auditor for CDM and JI projects at TÜV Industrie Service GmbH TÜV SÜD Group. In his position he is responsible for the implementation of verification and certifications processes for GHG mitigation projects. He has received extensive training in the CDM and JI validation processes and participated already in more than 30 CDM and JI project assessments.

Michael Rumberg is head of the division CDM/JI at TÜV Industrie Service GmbH TÜV SÜD Group. In his position he is responsible for the implementation of validation, verification and certifications processes for greenhouse gas mitigation projects in the context of the Kyoto Protocol. Before entering this company he worked as an expert for renewable energy, forestry, environmental issues, climate change and sustainability within the environmental branch of an insurance company. His competences are covering risk assessments, quality and environmental auditing (EMS auditor), baseline setting, monitoring and verification due to the requirements of the Kyoto Protocol.

Cristian Delamarian is a lead auditor for quality and environmental management systems (according to ISO 9001 and ISO 14001) at TÜV Philippines, Inc., TÜV SÜD Group in Manila. He is an acknowledged expert for electricity and heat generation project based on renewable sources world-wide. In his position he is responsible for the implementation of validation, verification and certifications audits for management systems. He has received extensive training in the CDM validation process and participated already in several CDM project in the South- and South-East Asian region.

The audit team covers the above mentioned requirements as follows:

- Ø Knowledge of Kyoto Protocol and the Marrakech Accords (ALL)
- Ø Environmental and Social Impact Assessment (ALL)
- Ø Skills in environmental auditing (ALL)
- Ø Quality assurance (ALL)
- Ø Technical aspects of solar thermal technologies (ALL)
- Ø Monitoring concepts (ALL)
- Ø Political, economical and technical random conditions in host country (DELAMARIAN)

In order to have an internal quality control of the project, a team of the following persons has been composed by the certification body "climate and energy":

- Ø Werner Betzenbichler (head of the certification body "climate and energy")

For further details please refer to the "Introduction" section of the validation report (Validation Report No. 634269, 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 of the project consists of the following three phases:

- Desk review
- Follow-up interviews
- Resolution of clarification and corrective action requests

In order to ensure transparency, a validation protocol was customised for the project, according to the Validation and Verification Manual. The protocol shows, in a 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.

The validation protocol consists of three tables. The completed validation protocol is enclosed in Annex 1 to this report.

Findings established during validation can either be seen as a non fulfillment of validation criteria or where a risk to the fulfilment of the project objectives is identified. Such findings are termed Corrective Action request. The term "Clarification request" is used when the validation team has identified a need for further clarification.

The Corrective Action Requests and Clarification Requests raised by TÜV SÜD were resolved during communication between the client and TÜV SÜD. To guarantee the transparency of the validation process, the concerns raised and responses that have been given are summarised in chapter 3 of the validation report and documented in more detail in the validation protocol in annex 1 to the validation report. The validation of the project resulted in 2 Corrective Action Requests and 3 Clarification Request.

For further details please refer to the "Methodology" section of the validation report (Validation Report No. 634269, rev. 02).

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)**

TÜV SÜD published the project documents on its website from July 9th, 2005 and invited comments within 30 days, until August 8th, 2005 by Parties, stakeholders and non-governmental organisations. The PDD has been publicly available under the following link:

http://www.netinform.de/KE/Wegweiser/Guide2.aspx?ID=965&Ebene1_ID=26&Ebene2_ID=223&mode=1.

No comments have been 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 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**

TÜV SÜD has performed a validation of the “CDM SOLAR COOKER PROJECT ACEH 1, INDONESIA” in Indonesia. The validation was performed on the basis of UNFCCC criteria and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 12 of the Kyoto Protocol, the CDM modalities and procedures and subsequent decisions by the CDM Executive Board.

The review of the project design documentation and the subsequent follow-up interviews have provided TÜV SÜD with sufficient evidence to determine the fulfilment of stated criteria. In our opinion, the project does meet all relevant UNFCCC requirements for the CDM and all relevant host country criteria. The project will hence be recommended by TÜV SÜD for registration with the UNFCCC under the CDM after the receipt of the written Letters of Approval by both involved Parties.

The validation consists of the following three phases:

- Desk review
- Follow up interviews
- Resolution of clarification and corrective action requests

The Corrective Action Requests and Clarification Requests raised by TÜV SÜD were resolved during communication between the client and TÜV SÜD in a satisfactory manner.

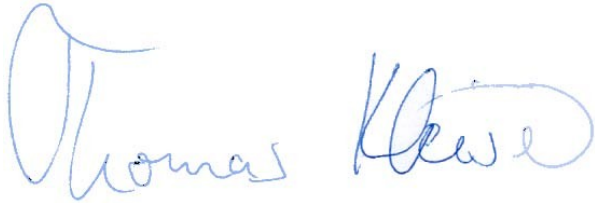
The participation requirements defined in paragraph 28-30 of the modalities and procedures (decision 17/CP.7) for the Clean Development Mechanism are satisfied.

Comments by local stakeholders have been invited, a summary of comments received has been provided and a report on how due account was taken of any comment has been received.

The project is based on an approved methodology.

By supplying about 1000 households with solar cookers, the project leads to a remarkable reduction of the consumption of non-renewable firewood and contributes to avoid further deforestation in Aceh region of Indonesia. Thus the project results in reductions of CO₂ emissions that are real, measurable and give long-term benefits to the mitigation of climate change. An analysis of the described investment, technological and also cultural barriers demonstrates that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of emission reductions. Without CDM this project would not be feasible.

Additionally the assessment team reviewed the estimation of the projected emission reductions. We can confirm that the indicated amount of emission reductions of 24 500 tonnes CO_{2e} over a crediting period of seven years, resulting in a calculated annual average of 3 500 tonnes CO_{2e},

<p>represents a reasonable estimation using the assumptions given by the project documents.</p> <p>The validation is based on the information made available to us and the engagement conditions detailed in this report. The validation has been performed using a risk based approach as described above. The only purpose of this report is its use during the registration process as part of the CDM project cycle. Hence, TÜV SÜD can not be held liable by any party for decisions made or not made based on the validation opinion, which will go beyond that purpose.</p>		
<p>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.</p>		
<p>By submitting this validation report, the DOE confirms that all validation requirements are met.</p> <p>Name of authorized officer signing for the DOE</p>	<p>Thomas Kleiser</p> 	
Date and signature for the DOE	December 23, 2005	
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