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Validation Report

**Yunnan Xudong Phosphate Chemical Group Jinfeng Power
Generation Co., Ltd.**

**VALIDATION OF THE CDM-PROJECT:
XUNDIAN JINFENG 12.6MW HYDROPOWER
PROJECT**

REPORT NO. 1174162

29 September 2009

TÜV SÜD Industrie Service GmbH
Carbon Management Service
Westendstr. 199 - 80686 Munich – GERMANY



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Subject: Validation of a CDM Project	
Accredited TÜV SÜD Unit: TÜV SÜD Industrie Service GmbH Certification Body "climate and energy" Westendstr. 199 80686 Munich Germany	TÜV SÜD Contract Partner: Jiangsu TÜV Product Service Beijing Branch Unit 918, Landmark Tower 2 8 North Dongsanhuan Road Beijing 100004 P.R. China
Project Participant: Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd. Luoman Hotspring Hotel, Dianchi Street Kunming City, Yunnan Province People's Republic of China	Project Site(s): Xundian County, Kunming City Yunnan Province People's Republic of China GPS coordinates(power house): East longitude 103°06'35' '' North latitude 25°52'35' ''
Project Title: Xundian Jinfeng 12.6MW Hydropower Project	
Applied Methodology / Version: AMS-I.D/Version 13	Scope(s): 1 Technical Area(s): 1.1
First PDD Version: Date of issuance: 25-12-2007 Version No.: 1.0 Starting Date of GSP: 20-05-2008	Final PDD version: Date of issuance: 17-08-2009 Version No.: 2.1
Estimated Annual Emission Reduction:	40,760 tCO ₂ e
Assessment Team Leader: Ms. Xiaoyan Liu	Further Assessment Team Members: Mr. Ruifeng Li Ms. Xiaoying Chen Mr. Qin Huang
Summary of the Validation Opinion: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 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 all stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM. Hence TÜV SÜD is recommending the project for registration by the CDM Executive Board if letters of approval of all Parties involved will be available before the expiring date of the applied methodology(ies) or the applied methodology version respectively. <input type="checkbox"/> The review of the project design documentation and the subsequent follow-up interviews have not provided TÜV SÜD with sufficient evidence to determine the fulfilment of all stated criteria. Hence TÜV SÜD will not recommend the project for registration by the CDM Executive Board and will inform the project participants and the CDM Executive Board on this decision. 	



Abbreviations

ACM	Approved Consolidated Methodology
AM	Approved Methodology
AMS	Approved Methodology Small scale
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CER	Certified Emission Reduction
CM	Combined Margin
CMP	Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol
CR / CL	Clarification Request
DNA	Designated National Authority
DOE	Designated Operational Entity
EF	Emission Factor
EIA / EA	Environmental Impact Assessment / Environmental Assessment
ER	Emission Reduction
FAR	Forward Action Request
FSR	Feasibility Study Report
GHG	GreenHouse Gas(es)
IPCC	Intergovernmental Panel on Climate Change
IRL	Information Reference List
IRR	Internal Rate of Return
KP	Kyoto Protocol
MP	Monitoring Plan
NGO	Non Governmental Organisation
OM	Operational Margin
PDD	Project Design Document
PP	Project Participant
TÜV SÜD	TÜV SÜD Industrie Service GmbH
UNFCCC	United Nations Framework Convention on Climate Change
VVM	Validation and Verification Manual



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1 INTRODUCTION

1.1 Objective

The validation objective is an independent assessment by a Third Party (Designated Operational Entity = DOE) of a proposed project activity against all defined criteria set forth by the registration under the Clean Development Mechanism (CDM). Validation is part of the CDM project cycle and results in a conclusion by the executing DOE whether a project activity is valid and should be submitted for registration to the CDM Executive Board (CDM-EB). The ultimate decision on the registration of a proposed project activity rests with the CDM-EB and the Parties involved.

The project activity covered by this validation report has been submitted under the project title:
Xundian Jinfeng 12.6MW Hydropower Project

1.2 Scope

The scope of any assessment is defined by the underlying legislation, regulation and guidance given by relevant entities or authorities. In the case of CDM project activities the scope is set by:

- The Kyoto Protocol, in particular § 12 and modalities and procedures for the CDM
- Decision 2/CMP1 and Decision 3/CMP.1 (Marrakech Accords)
- Further COP/MOP decisions with reference to the CDM (e.g. decisions 4 – 8/CMP.1)
- Decisions and specific guidance by the EB published under <http://cdm.unfccc.int>
- Guidelines for Completing the Project Design Document (CDM-PDD), and the Proposed New Baseline and Monitoring Methodology (CDM-NM)
- Baselines and monitoring methodologies (including GHG inventories)
- Management systems and auditing methods
- Environmental issues relevant to the sectoral scope applied for
- Applicable environmental, social impacts, and aspects of CDM project activity
- Sector specific technologies and their applications
- Current technical and operational knowledge of the specific sectoral scope and information on best practice

The validation is not meant to provide any consulting towards the project participant (PP). However, stated requests for clarifications, corrective actions, and/or forward actions may provide input for improvement of the project design.

Once TÜV SÜD receives a first PDD version, it is made publicly available at the UNFCCC webpage and at TÜV SÜD's webpage to start a 30 day global stakeholder consultation process (GSP). In special circumstances, e.g. certain conditions allow the GSP to be repeated, a request to revise the PDD will be processed. The original PDD and the modified PDD will form the basis for the final evaluation. Information on both PDDs is presented on page 1.



The purpose of a validation is its use during the registration process as part of the CDM project cycle. Therefore, TÜV SÜD cannot be held liable by any party for decisions made, or not made, based on the validation opinion, which will go beyond that purpose.

2 METHODOLOGY

The project assessment applies standard auditing techniques to assess the correctness of the information provided by the project participants. The assessment is based on the “Clean Development Mechanism Validation and Verification Manual” version 01. The work starts with the appointment of the team covering the technical scope(s), sectoral scope(s) and relevant host country experience for evaluating the CDM project activity. Once the project is made available for the stakeholder consultation process, members of the team carry out the desk review, follow-up actions, resolution of issues identified, and finally preparation of the validation report. The prepared validation report and other supporting documents then undergo an internal quality control by the CB “climate and energy” before submission to the CDM-EB.

In order to ensure transparency, assumptions are clear and explicitly stated; the background material is clearly referenced. TÜV SÜD developed methodology-specific checklists and protocol customised for the project. The protocol shows, in a transparent manner, criteria (requirements), the discussion of each criterion by the assessment team, and the results from validating the identified criteria.

The validation protocol serves the following purposes:

It organizes details and clarifies the requirements a CDM project is expected to meet;

It ensures a transparent validation process where the validator has to document how a particular requirement has been validated, as well as the results of the validation and any adjustments, if any, made to the project design.

The validation protocol consists of three tables. The different columns in these tables are described in the figure below.

Validation Protocol Table 1: Conformity of Project activity and PDD				
Checklist Topic / Question	Reference	Comments	PDD in GSP	Final PDD
<i>The checklist is organised in sections following the arrangement of the applied PDD version. Each section is then further sub-divided. The lowest level constitutes a checklist question / criterion.</i>	<i>Gives reference to documents where the answer to the checklist question or item is found in case the comment refers to documents other than</i>	<i>The section is used to elaborate and discuss the checklist question and/or the conformance to the question. It is further used to explain the conclusions reached. In some cases sub-checklist are applied indicating yes/no decisions on the compliance with the stated criterion. Any</i>	<i>Conclusions are presented based on the assessment of the first PDD version. This is either acceptable based on evidence provided (☑), or a Corrective Action Request (CAR) due to non-compliance with the checklist question (See below). Clarification Request (CR) is used when the validation team has identified a need for further clarification. Forward action request to highlight issues related to project</i>	<i>Conclusions are presented in the same manner based on the assessment of the final PDD version and further documents including assumptions presented in the documentation.</i>



	<i>the PDD.</i>	Request has to be substantiated within this column	implementation that require review during the first verification.	
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Validation Protocol Table 2: Resolution of Corrective Action and Clarification Requests

Clarifications and corrective action requests	Ref. to table 1	Summary of project owner response	Validation team conclusion
<i>If the conclusions from table 1 are either a Corrective Action, a Clarification or a Forward action Request, these should be listed in this section.</i>	<i>Reference to the checklist question number in Table 1 where the issue is explained.</i>	<i>The responses given by the client or other project participants during the communications with the validation team should be summarised in this section.</i>	<i>This section should summarise the discussion on and revision to project documentation together with the validation team's responses and final conclusions. The conclusions should be reflected in Table 1, under "Final PDD".</i>

In case of a denial of the project activity more detailed information on this decision will be presented in table 3.

Validation Protocol Table 3: Unresolved Corrective Action and Clarification Requests

Clarifications and corrective action requests	Id. of CAR/CR	Explanation of the Conclusion for Denial
<i>If the final conclusions from table 2 results in a denial the referenced request should be listed in this section.</i>	<i>Identifier of the Request.</i>	<i>This section should present a detail explanation, why the project is finally considered not to be in compliance with a criterion with a clear reference to the requirement which is not complied with.</i>

The completed validation protocol is enclosed in Annex 1 to this report.

2.1 Appointment of the Assessment Team

According to the technical scopes and experiences in the sectoral or national business environment TÜV SÜD has composed a project team in accordance with the appointment rules of the TÜV SÜD certification body "climate and energy". The composition of an assessment team has to be approved by the Certification Body (CB) to assure that the required skills are covered by the team. The CB TÜV SÜD operates four qualification levels for team members that are assigned by formal appointment rules:

- Assessment Team Leader (ATL)
- Greenhouse Gas Auditor (GHG-A)
- Greenhouse Gas Auditor Trainee (T)
- Experts (E)

It is required that the sectoral scope and technical areas linked to the methodology have to be covered by the assessment team.



Name	Qualification	Coverage of sectoral scope	Coverage of technical areas	Host country experience
Ms. Xiaoyan Liu	ATL	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Ruifeng Li	GHG-A	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Xiaoying Chen	GHG-A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Qin Huang	T	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Xiaoyan Liu is a senior engineer for Environmental Engineering and head at section of “Carbon Re-course Management” in Beijing branch office, Jiangsu TUV Product Service Ltd. She is also a lead auditor for environmental management systems and holds a Master Degree in environmental science. In her position she is responsible for the implementation of validation, verification and certifications audits for GHG projects. She received training in the CDM validation process early in 2006 and has participated already in many CDM project assessments as auditor / ATL.

Ruifeng Li is an auditor for environmental management systems (according to ISO 14001) at Jiangsu TUV Product Service Ltd. He is based in Beijing. In his position he is responsible for the implementation of validation, verification and certifications audits for management systems. He has received training in the CDM validation process and participated already in various CDM project assessments as a GHG auditor trainee.

Xiaoying Chen is an expert for GHG inventory validation and verification for Scope 1 at TÜV Industrie Service GmbH TÜV SÜD Group, she holds a Master Degree in knowledge management from Conservatoire Nationale des Arts et Metiers and has a strong technical background in renewable energies. She has been involved in GHG activities since 2005, starting as consultant for the development of CDM projects. She has received extensive training in CDM validation and verification processes and participated in several CDM project assessments.

Qin Huang is an auditor trainee at the “Carbon Management Service” department of Jiangsu TUV Product Service Ltd in Beijing, China. He holds a M.Sc. in industrial ecology and has gathered experience in environmental engineering before joining TÜV SÜD China. He has received training in the CDM validation process and participated in several CDM project assessments.

2.2 Review of Documents

The first version of the PDD was submitted to the DOE in May 2008. The first PDD version submitted by the PP and additional background documents related to the project design and baseline have been reviewed to verify the correctness, credibility, and interpretation of the presented information. Furthermore, a cross-check between information provided and information from other sources (if available) has been done as initial step of the validation process. A complete list of all documents and proofs reviewed is attached as annex 2 to this report.

2.3 Follow-up Interviews

On 25 June 2008 TÜV SÜD performed interviews, telephone conferences, and physical site inspection with project stakeholders to confirm relevant information, and to resolve issues identified in the first document review. The table below provides a list of all persons interviewed in this context.



Name	Organisation
Mr. Wenzhong Li	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd.
Mr. Tao Yu	Yunnan Ruiheng Union Energy Developing Co., Ltd.
Mr. Yifei Chen	Beijing Ruichi Electric Power Information Technology Co., Ltd.
Mr. Yunyi Wang	Mitsubishi Corporation (Shanghai) Ltd

2.4 Further cross-check

During the validation process the team makes reference to available information related to similar projects or technologies as the CDM project activity. The documentation has also been reviewed against the approved methodology/ies applied to confirm the appropriateness of formulae and correctness of calculations.

2.5 Resolution of Clarification and Corrective Action Requests

The objective of this phase of the validation is to resolve the requests for corrective actions, clarifications, and any other outstanding issues which needed to be clarified for TÜV SÜD's conclusion on the project design. The CARs and CRs 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 documented in more detail in the validation protocol in annex 1.

The final PDD version submitted in September 2009 serves as the basis for the final assessment presented. Changes are not considered to be significant with respect to the qualification of the project as a CDM project based on the two main objectives of the CDM. These are an achievement of reduction of anthropogenic GHG emissions and to contribute to a sustainable development.

2.6 Internal Quality Control

As final step of a validation activity the final documentation, which includes the validation report and the validation protocol, has to undergo an internal quality control by the CB "climate and energy". That means that each report has to be approved either by the head of the CB or the deputy. In projects where either the Head of the CB or his/her Deputy is part of the assessment team approval can only be given by the either one not serving on the project.

After confirmation of the PP, the validation opinion and relevant documents are submitted to the EB through the UNFCCC web-platform.

3 SUMMARY

The assessment work and the main results are described below in accordance with the VVM reporting requirements. The reference documents indicated in this section and Annex 1 are stated in Annex 2.

3.1 Approval

The project participants are Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd. of People's Republic of China (P.R.China) and Mitsubishi Corporation of Japan. The host Party China and further participant Party Japan meet the requirements to participate in the CDM.

The DNA of the Japan has issued a LoA (IRL 35) on 04 September 2008 authorizing Mitsubishi Corporation as a project participant. The DNA of China has also issued a LoA (IRL 34) in April 2008 authorizing Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd. as a project participant. TÜV SÜD received these letters from the project participants directly and considers the provided letters as authentic.

The Chinese LoA has further been double-checked with the CDM project webpage sponsored by the Department of Climate Change, NDRC (<http://cdm.ccchina.gov.cn>), which further confirms the approval of this CDM project.

The Japanese LoA has been cross-checked with the webpage of Japan DNA (http://www.kyomecha.org/e/List_of_CDMJI.php, No 389), which confirms the approval of this project by the Government of Japan.

Furthermore, after checking the provided LoAs, TÜV SÜD confirms that both letters refer to the precise proposed CDM project activity title in line with the title in the PDD "Xundian Jinfeng 12.6MW Hydropower Project".

Both letters also indicate that each participating Party is a Party to the Kyoto Protocol, and that the participation in the Xundian Jinfeng 12.6MW Hydropower Project is voluntary. The Chinese LoA also confirms that the proposed CDM project activity contributes to the sustainable development of China (host country). Based on the information given in these letters, TÜV SÜD considers the approval as unconditional with respect to these items.

Both LoAs have been issued by the respective Party's DNA, National Development and Reform Commission of the People's Republic of China and the Liaison Committee for the Utilization of the Kyoto Mechanisms of Japan, respectively.

TÜV SÜD therefore considers that the requirements of VVM (§§ 45-48) have been met.

The LoA does not refer to a specific version of the PDD or validation report. The corresponding references included in LoA, PDD and validation report are consistent.

3.2 Participation

The participants of the project activity have been approved by the corresponding Parties, which is confirmed by the issued LoAs.

The means of validation used are similar to the ones described in section 3.1, specifically in regard to the approval process of the project activity.

3.3 Project design document

The PDD is compliant with relevant form and guidance as provided by UNFCCC.

The most recent version of the PDD form was used.

TÜV SÜD considers that the guidelines for the completion of the PDD in their most recent version have been followed. Relevant information was provided by the participants in the applicable PDD sections. Completeness was assessed through the checklist included in Annex 1 of this report.

3.4 Project description

The following description of the project as per PDD was verified during the on-site audit:

The proposed project is located in Xundian County, Kunming City, Yunnan Province, People's Republic of China. It is a run of river hydropower project with 12.6MW installed capacity (2*6.3MW). The project will achieve emission reductions by supplying zero emission electricity to the South China Power Grid, which is dominated by thermal power according to the recent China Electric Power Yearbook. Therefore, the net generation of the project will displace same amount of electricity of the grid and a certain amount of greenhouse gas (GHG) emissions will be consequently reduced as well. The annual emission reductions are expected to be 40,760 tCO_{2e}. The information presented in the PDD on the technical design is consistent with the actual planning and implementation of the project activity as confirmed by:

- Review of data and information (see annex 2). This was verified with other sources.
- An on-site visit has been performed and relevant stakeholder and personnel with knowledge of the project were interviewed. If doubts arose further investigations and additional interviews were conducted
- Finally, information related to similar projects or technologies as the CDM project activity have been used to confirm the accuracy and completeness of the project description.

In conclusion, TÜV SÜD confirms that the project description, as included to the PDD, is sufficiently accurate and complete in order to comply with the requirements of the CDM.

3.5 Baseline and monitoring methodology

3.5.1 Applicability of the selected methodology

Compliance with each applicability condition as listed in the chosen baseline and monitoring methodology AMS-I.D Version 13 has been demonstrated.

The assessment was carried out for each applicability criteria and included, among others, the compliance check of the local project setting with the applicability conditions in regard to baseline setting and eligible project measures. This assessment also included the review of secondary sources, which sustain that applicability conditions are complied with.

The methodology specific protocol, included to the Annex 1, documents the assessment process, which also includes the steps taken. The results on the compliance check, as well as the relevant evidence, are detailed in Annex 1.

TÜV SÜD confirms that the chosen baseline and monitoring methodology is applicable to the project activity.

Emission sources, which are not addressed by the applied methodology, and are expected to contribute more than 1% of the overall expected average annual emission reductions, have not been identified.

3.5.2 Project boundary

The project boundary was assessed in the context of physical site inspection, interviews, and on the secondary evidence received on the design of the project.

As indicated in the methodology AMS-I.D (Version 13), the spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the proposed project is connected to, which was correctly identified as the South China Power Grid. The only GHG and emission source included in the project boundary is CO₂ emission from the electricity generation in fossil fuel fired power plants that is displaced due to the project activity.

The most relevant documentation assessed in order to confirm the project boundary are as follows:

- Preliminary Design Report (PDR in short, IRL 7), and
- Approval of Grid Connection (IRL 13)

The same have been validated during the validation process using standard audit techniques, further details of any observation are transparently presented in the Annex 1.

Therefore, TÜV SÜD confirms that the identified boundary, the selected sources, and gases as documented in the PDD are justified for the project activity.

3.5.3 Baseline identification

The PDD defines the following baseline scenario:

As per the AMS.I.D (Version 13) methodology, the baseline is clearly defined for this type of project activity (i.e. installation of a new grid-connected renewable hydro power plant) as follows:

Electricity delivered to the grid by the proposed project would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources as reflected in the combined margin (CM) calculation.

The information presented in the PDD has been validated by an initial document review of all data. Further confirmation is based on the on-site visit and researching information from similar projects and/or technologies. The information was cross-checked based on verifiable and credible sources, such as:

- Preliminary Design Report (PDR in short, IRL 7), and
- Forbidding Construction of Fossil Fuel Fired Power Plants of or under 135 MW (IRL 39), and
- AMS-I.D (Version 13)

Based on the validated assumptions TÜV SÜD considers that the identified baseline scenario is reasonable.

Taking the definition of the baseline scenario into account, TÜV SÜD confirms that all relevant CDM requirements, including relevant and/or sectoral policies and circumstances, have been identified correctly.

A verifiable description of the baseline scenario has been included in the PDD.

In regard to item 86 of VVM, TÜV SÜD confirms that:

1. All the assumptions and data used by the project participants are listed in the PDD, including their references and sources;
2. All documentation used is relevant for establishing the baseline scenario and correctly quoted and interpreted in the PDD;
3. Assumptions and data used in the identification of the baseline scenario are justified appropriately, supported by evidence, and can be deemed reasonable;
4. Relevant national and/or sectoral policies and circumstances are considered and listed in the PDD;
5. The approved baseline methodology has been correctly applied to identify the most reasonable baseline scenario, and the identified baseline scenario reasonably represents what would occur in the absence of the proposed CDM project activity.

3.5.4 Algorithm and/or formulae used to determine emission reductions

TÜV SÜD has assessed the calculations of project emissions, baseline emissions, leakage, and emission reductions. Corresponding calculations were carried out based on calculation spreadsheets. The parameters and equations presented in the PDD, as well as other applicable documents, have been compared with the information and requirements presented in the methodology and respective tools. The equation comparison has been made explicitly following all the formulae presented in the calculation files.

The assumptions and data used to determine the emission reductions are listed in the PDD and all the sources have been checked and confirmed.

Based on the information reviewed it can be confirmed that the sources used are correctly quoted and interpreted in the PDD.

The values presented in the PDD are considered reasonable based on the documentation and references reviewed, as well as, the result of the interviews.

The baseline methodology has been correctly applied according to requirements.

The estimate of the baseline emissions can be confirmed as the same that have been replicated by the audit team using the information provided.

Detailed information on the verification of the parameters used in the equations can be found in Annex 1. The algorithms for the determination of the baseline, project, and leakage are discussed in the following sections.

3.5.4.1 Baseline Emissions

The calculation of the baseline emissions followed the procedures described in the methodology AMS-I.D Version 13.

The operating margin emission factor (EF_{OM}) was determined based on the simple OM method. The ex-ante option was chosen for this calculation. The calculation of the build margin emission factor (EF_{BM}) was based on modified methods agreed by the EB, because plant specific data are not available in China. The emission factor of the thermal power plants was calculated by the proportion of the emissions of coal, gas and oil times the emission factor of the best available coal, gas and oil power plant as defined and published by the Chinese DNA. The new thermal capacity installation that exceeded 20% in the last years, for which data was available, was finally assessed with this factor.

NDRC values issued on 9 August 2007 were applied ($EF_{OM} = 1.0119 \text{ tCO}_2/\text{MWh}$, $EF_{BM} = 0.6748 \text{ tCO}_2/\text{MWh}$), which are the latest available data for the PPs at the time of the commencement of the validation.

The value for the combined margin emission factor ($EF_{CM}=0.8433 \text{ tCO}_2/\text{MWh}$) was determined using the weighted average of the EF_{BM} and EF_{OM} using the default values for the factors as described in the methodology (i.e. 0.5 for hydro plants).

3.5.5 Project emissions

As per the methodology, the project does not need to consider project emissions.

3.5.6 Leakage

As per the methodology, the project does not need to consider leakage.

3.5.7 Emission Reductions

As per the methodology, the emission reductions equal the baseline emissions.

In summary, the calculation of the baseline emissions and the emission reductions, respectively, can be considered as correct.

3.6 Additionality

The additionality of the project has been presented in the PDD by applying the investment barrier analysis as indicated in Attachment A to Appendix B of the simplified modalities and procedures for small-scale CDM project activities, Version 06.

The approach used in the PDD has been assessed initially through document review, during which following documents have been reviewed:

- Preliminary Design Report, (PDR, IRL 7)
- PDR Approval (IRL 8)
- Economic Evaluation Code for Small Hydropower Projects (SL16-95, IRL 25)
- Investment analysis calculation spreadsheets (IRL 40)

On site the additionality has been discussed principally with: Mr. Weizhong Li, President of Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd. Further documents have been reviewed on-site (Annex 2).

Finally, the data, rationales, assumptions, justifications, and documentation provided have been verified using local knowledge as well as sectoral and financial expertise. This information was also confirmed through the following documentation:

- Turbine and Electric Generating Unit Purchasing Agreement (IRL 14)
- Jinfeng Hydropower Station Construction Contract (IRL 30)
- Jinfeng Hydropower Station O&M Contract (IRL 31)
- Power Purchase Agreement (IRL 32)
- Notice of Electricity Tariff for Yunnan Grid (IRL 26)
- Board Decision of CDM Implementation (IRL 9)
- First CDM Consultation Contract (IRL 20)

Based on these validation steps we can confirm that the documentation assessed is appropriate for this project.



3.6.1 Prior consideration of the clean development mechanism

The starting date of the project activity is determined by signing construction contract in December 2005, which is the earliest date at which either the implementation or construction or real action of a project activity begins. In order to corroborate this information the assessment team has reviewed the following documents:

- Turbine and Electric Generating Unit Purchasing Agreement (IRL 14), and
- Notice of Start-up of Construction (IRL 15)

Additionally the assessment team cross-checked this information with Mr. Tao Yu, Project Manager of Yunnan Ruiheng United Energy Development Co., Ltd (construction company) during various discussions on site.

The starting date of the project activity is determined to be 30 December 2005, which is before 02 August 2008, as well as prior to the GSP. The PPs presented the following information to the assessment team:

- Preliminary Design Report dated Jun 2004 indicating that the project IRR after tax is lower than the benchmark and the project is not financially attractive without CDM supports (PDR in short, IRL 7)
- Board Decision of CDM Implementation dated 28 September 2005 (IRL 9)
- First CDM Consultation Contract dated 8 December 2005 (IRL 20)
- Construction Contract dated 30 December 2005 (IRL 30)

The original documents presented have been reviewed and verified based on interviews with Mr. Weizhong Li, President of Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd. and Mr. Tao Yu, Project Manager of Yunnan Ruiheng United Energy Development Co., Ltd (construction company). Therefore the documents can be considered appropriate to confirm the prior consideration of CDM. Additionally, in order to confirm that the PPs have taken real actions to continue the activity as CDM, the following timeline has been reviewed against the respective documents presented in the table below:

Activity	Document	Auditor conclusion
September 2006-February 2007 Communication with first CDM consultant regarding CDM development and the selection of CERs buyer	Copy of work contact letter (IRL 42) and meeting minutes (IRL 43) between the project owner and Yunnan Ruihenglianhe Energy Development Co., Ltd.	On-going discussion between the project owner and the first CDM consultation company clearly indicates that the CDM status was continuously followed up upon in the parallel with the project implementation
June 2007 First CDM Consultation Contract terminated	Contract Termination between the project owner and Yunnan Ruihenglianhe Energy Development Co., Ltd. (IRL 12)	The first CDM consultation contract was terminated, on-going CDM related activity
July 2007 Second CDM Consultation Contract signed	CDM Consultation Contract signed between the project owner and Beijing Ruichi Electric Power Information Technology Co. Ltd (IRL 21)	Second CDM consultation contract was signed, on-going CDM related activity

December 2007 Letter of Intent from CDM Buyer signed	Letter of Intent between the project owner and Mitsubishi Corporation. (IRL 22)	LoI was signed with the buyer, on-going CDM related activity
May 2008 GSP started	UNFCCC website	Verified
October 2008 MoC signed	MoC between the project owner and the Mitsubishi Corporation (IRL 36)	MoC was signed between the project owner and the buyer, on-going CDM related activity
August 2009 MoC re-signed with the new template released in EB45 meeting	MoC between the project owner and the Mitsubishi Corporation (IRL 47)	Verified, on-going CDM related activity
2008-2009	-	On-going validation work by TÜV SÜD

This confirms that the project complies with the requirements to demonstrate the prior consideration of the CDM.

3.6.2 Identifications of alternatives

The output of the project is electricity that is exported to the South China Power Grid.

As per the applied methodology AMS-I.D (Version 13), no alternatives were contemplated.

3.6.3 Investment barrier analysis

The PP uses the investment barrier analysis indicated in the Attachment A to Appendix B of the simplified modalities and procedures for small-scale CDM project activities to demonstrate the additionality. The benchmark analysis (project IRR after tax) is applied. The financial returns of the proposed project are insufficient to justify the investment.

The parameters used in the financial calculations have been validated based on a review of the sources presented in the PDD, inter alia: PDR. The same were confirmed verbally on-site.

Furthermore, the period of time between the finalization of the PDR (June 2004) and the investment decision (September 2005) is approx. 15 months. A written confirmation from Yunnan Difang Electric Power Technology Development Co., Ltd. has been verified, which demonstrates that the input values have not been materially changed by the time of investment decision (IRL 38).

All input data applied in the financial analysis are fully consistent with the PDR. PDR was developed by an authorized third party Yunnan Difang Electric Power Technology Development Co., Ltd (IRL 7) and approved by Yunnan Xundian Development and Plan Bureau (IRL 8) and can be considered as a reliable data source for the investment analysis. Additionally based on a cross check when possible with actual contracts and other publicly available documents, it can be seen that the parameters are appropriate and plausible and can be considered acceptable under the project situation.

Total Static Investment

Total static investment is presumed to be 70.89 Mio RMB in the PDR. According to the Final Accounting Report issued by the construction company (Yunnan Small-scale Hydropower Construction

Engineering Company) and the supervision organization (Xundian Hui and Dai Autonomous County Water Resources Bureau), the total expenditure is 70.81 Mio RMB, slightly lower than the PDR estimate. After applying this real figure in the IRR calculation, the project IRR after tax would be 6.98%, still much lower than the benchmark of 8%. Hence, the assumed value in PDR/PDD financial analysis is considered as appropriate.

Annual O&M costs

The annual O&M costs equal about 2.4% of the total static investment, lower than the average of 2.5% based on TÜV SÜD's internal statistics. Furthermore, according to the signed the O&M Contract (IRL 31), the project owner will pay for the operation costs of 1.7 Mio RMB per year, which is higher than the PDR estimate of 1.68 Mio RMB. Therefore, the audit team confirms that, according to above considerations, the annual O&M costs as stated by the PPs in the investment analysis are reasonable and acceptable during the assessment.

Annual power output

As per PDR, the total power generation is 55,365 MWh per year and the annual operation hours are 4394h, which are designed based on the historical annual runoff, the deviation coefficient of runoff and power network load. According to the statistic from 2008 China Water Resource Yearbook, the average operation hours of small scale hydropower plants in Yunnan Province is 3697h. The operation hours of the project are 4394h, higher than the observed average value, and thus is considered conservative. In addition, the load factor of 50% has been defined ex-ante in the PDD and is calculated through the annual operation hour 4394h divided by 8760h. The annual operation hour was determined by an authorized third party ordered by the project owner and the value is also same as that supplied to local government when applying for implementation approval (IRL 8). Hence it is no doubt that the estimate of the load factor is in line with the requirement a) and b) mentioned in EB48 annex 11.

The estimated annual power output is 48,334MWh which was calculated by considering the coefficient of effective electricity, auxiliary power consumption as well as line losses. The calculation formula is as follows:

Annual power output=power generation * coefficient of effective electricity * (1-auxiliary power consumption rate-line losses rate), i.e. $48,343=55,365*0.9*(1-1\%-2\%)$

The same has been verified and cross-checked by the following ways :

- The coefficient of effective electricity is 0.9 which is in line with Chinese Economic Evaluation Code for Small Hydropower Projects. According to this code, the range of 0.8-0.9 is applicable for the project type (i.e. run-of river hydropower stations without regulating ability).
- The rate of the auxiliary power consumption is estimated to be 1% which is in compliance with Chinese Hydroenergy Design Code for Small Hydropower Projects issued by Chinese Ministry of Water Resources (SL76-94, IRL 41)
- Based on 2006 China Electric Power Yearbook page 589, the average line losses of hydropower projects in Yunnan Province is 6.28%. Hence the applied value of 2% is confirmed to be conservative.
- The project was put into operation in January 2009. According to the Power Generation Records of Jan.-July 2009 (IR 45), the maximum monthly power output is 3,710,448 kWh happened in July 2009. It is much lower than the average estimate of the PDR ($48,334\text{MWh}/12=4,027,833\text{kWh}$).

- Even with the total amount of power generation (i.e. 55,365 MWh) being applied for the investment analysis, the project IRR after tax (8.64%) remains below the benchmark and the project is still additional.

From the above considering, the assessment team deems that the projection of annual power output is plausible while the difference between the total power generation and the net power output can be considered acceptable.

Tariff

The applied tariff in PDR is 0.18 RMB/kWh (without VAT), which has been confirmed by the Power Purchase Agreement (IRL 32) and Power Sales Invoice (IRL 46). It is considered by the audit team as plausible and appropriate in the CDM context.

The benchmark of 10% (project IRR after tax) used for the financial comparison has been obtained from Economic Evaluation Code for Small Hydropower Projects issued by the Ministry of Water Resources of P.R.China issued in 1995 (IRL 25). This value has been confirmed against the source, and the suitability for this project can be confirmed due to Bulletin of Valid Hydropower Technical Standards issued by the Ministry of Water Resources of P.R.China in 2006 (<http://www.mwr.gov.cn/tzgg/qt/20060926000000479251.aspx>, IRL 37). This proves that the benchmark used is adequate for this project.

Further assumptions presented in the financial analysis inter alia income tax rate and VAT rate have also been reviewed and were found to be appropriate based on Provisional Regulations of the People's Republic of China on Enterprise Income Tax issued by State Council of P.R.China (IRL 27) and Circular of the Ministry of Finance and the State Administration of Taxation on Adjusting VAT Rates for Agricultural Products and Exempting Some Items from VAT Taxation issued by Chinese Ministry of Finance and State Administration of Taxation (IRL 28). This confirms that the underlying assumptions are appropriate for this project.

The sensitivity analysis was analyzed in detail and we herewith confirm that the underlying assumptions, parameters and chosen values are appropriate and that the calculations have been performed correctly.

The financial calculations have been verified and no mistakes have been found. This confirms that the calculations are correct.

3.6.4 Other barrier analysis

No other barrier analysis (technological barrier, barrier due to prevailing practice and other barriers) were applied for this project.

3.6.5 Common practice analysis

Not applicable.

3.7 Monitoring plan

The monitoring plan presented in the PDD complies with the requirements of the applicable methodology. The assessment team has verified all parameters in the monitoring plan against the requirements of the methodology; no relevant deviations have been found.

The procedures have been reviewed by the assessment team through document review and interviews with the relevant personnel. This information, together with a physical inspection, allows the assessment team to confirm that the proposed monitoring plan is feasible, and within the project design.

The major parameters to be monitored have been discussed with the PPs especially the location of meters, the data management, the quality assurance and quality control procedures to be implemented in the context of the project.

In line with the methodology, the only parameter that needs to be monitored ex-post is the net electricity supplied to the grid by the project activity, which will be continuously measured by national standard power meters, including a main meter installed at the inlet of the substation of the grid company and a back-up meter installed at the exit of the project substation. Both meters belong to the project owner and the accuracy for each will not exceed 0.5%. The meters will be calibrated periodically in accordance with the Technical Administrative Code of Electric Energy Metering (DL/T448-2000). In addition, the monitoring data could be cross-checked by electricity sales receipts. Therefore, we find that the PPs will be able to implement the monitoring plan and the emission reductions achieved can be reported ex-post and verified.

3.8 Sustainable development

The LoA of the Host Country presented a statement that the project contributes to the sustainable development of the Host Party.

3.9 Local stakeholder consultation

The relevant local stakeholders have been invited via broadcast and questionnaires (IRL 17) were distributed to collect the comments. The assessment team has reviewed the documentation in order to validate the inclusion of relevant stakeholders and using the local expertise, it can be confirmed that the communication method used to invite the stakeholders was considered appropriate. The summary of comments presented in the PDD has been verified with the documentation of the stakeholder consultation and is found to be complete.

Comments presented by the local stakeholders have been taken into account by the PPs. This has also been verified with information obtained during interviews.

Hence the local stakeholder consultation has been adequately performed according to the CDM requirements.

3.10 Environmental impacts

The project participants ordered Yunnan University to conduct an environmental impact assessment for this project activity (IRL 10). The assessment team reviewed the documentation of the presented information. The Environmental Impact Assessment Report (IRL 10) and Approval of Environmental Impact Assessment Report (IRL 11) confirm the correctness of the approach used by the PPs. We conclude that the PPs followed the requirements of the host country in regards to environmental impacts.



4 COMMENTS BY PARTIES, STAKEHOLDERS AND NGOS

TÜV SÜD published the project documents on the UNFCCC website by installing a link to TÜV SÜD's own website, and invited comments by affected Parties, stakeholders, and non-governmental organisations during a 30 day period.

The following table presents all gathered key information:

webpage: http://www.netinform.net/KE/Wegweiser/Guide2_3.aspx?ID=4904&Ebene1_ID=26&Ebene2_ID=1511&mode=0	
Starting date of the global stakeholder consultation process: 2008-05-20	
Comment submitted by: None	Issues raised: -
Response by TÜV SÜD: -	



5 VALIDATION OPINION

TÜV SÜD has performed a validation of the following proposed CDM project activity:

Xundian Jinfeng 12.6MW Hydropower Project

Standard auditing techniques have been used for the validation of the project. Methodology-specific customized checklists and protocol for the project have been prepared to carry out the audit in order to present the outcome in a transparent and comprehensive manner.

The review of the project design documentation, subsequent follow-up interviews and further verification of references have provided TÜV SÜD with sufficient evidence to determine the fulfilment of stated criteria in the protocol. In our opinion, the project meets all relevant UNFCCC requirements for the CDM. Therefore, TÜV SÜD will recommend the project for registration by the CDM Executive Board.

An analysis as provided by the applied methodology demonstrates that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are 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 as specified within the final PDD version.

The validation is based on the information made available to us, as well as the engagement conditions detailed in this report. The validation has been performed following the VVM requirements. The single purpose of this report is its use during the registration process as part of the CDM project cycle. TÜV SÜD can therefore not be held liable by any party for decisions made, or not made, based on the validation opinion beyond that purpose.

Munich, 29-09-2009

Beijing, 29-09-2009

A handwritten signature in blue ink that reads 'Thomas Kleiser'.

Thomas Kleiser

Certification Body "climate and energy"
TÜV SÜD Industrie Service GmbH

A handwritten signature in blue ink that reads 'Liu Xiaoyan'.

Xiaoyan Liu

Assessment Team Leader

Validation of the CDM Project:
Xundian Jinfeng 12.6MW Hydropower Project



Industrie Service

Annex 1: Validation Protocol

Validation Protocol

Project Title: Xundian Jinfeng 12.6MW Hydropower Project

Date of Completion: 29/09/2009

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CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
A. General description of small-scale project activity				
A.1. Title of the small-scale project activity				
A.1.1. Does the used project title clearly enable to identify the unique CDM activity?	1,2	The project is titled with the name of the project location and the energy source of the project. Hence, it can be clearly identified.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.1.2. Are there any indication concerning the revision number and the date of the revision?	1,2	The available PDD is indicated as version 01, dated 25/12/2007.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.1.3. Is this consistent with the time line of the project's history?	1,2	Yes. The GSP was started with this version.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2. Description of the small-scale project activity				
A.2.1. Is the description delivering a transparent overview of the project activities?	1,2, 7-15	The project is described transparently and the project activities described have been proven during the audit.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.2. What proofs are available demonstrating that the project description is in compliance with the actual situation or planning?	1,2 7-15	During auditing and interviewing with the projects owner of the hydropower project several evidence (see in the following) for the given project activity have been gathered <ul style="list-style-type: none"> — EIA report and EIA Approval — Preliminary Design Report and its Approval from Xundian Development and Plan Bureau — Approval of Connection System 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.3. Is the information provided by these proofs consistent with the information provided by the PDD?	1,2	There is no contradiction between the information provided by these proofs and the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.4. Is all information presented consistent with details provided by further chapters of the PDD?	1,2	Yes. All information presented is consistent with details provided by further chapters of the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.5. Does the description of the technology	1,2	Yes, the gathered data (in A.4.2. of the PDD) about supplied tur-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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to be applied provide sufficient and transparent input to evaluate its impact on the greenhouse gas balance?		bines and generators give sufficient and transparent information on its impact on the GHG balance.		
A.2.6. Is the brief explanation how the project will reduce greenhouse gas emission transparent and suitable?	1,2	The project activity (hydro-power plant) will replace electricity from the South China grid, which is predominated by coal-fired thermal power plants. Thus, GHG emissions will be reduced.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.3. Project participants				
A.3.1. Is the form required for the indication of project participants correctly applied?	1,2	The form is correctly applied.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.3.2. Is the participation of the listed entities or Parties confirmed by each one of them?	1,2	The LoA issued by China and Japan together with MoC countersigned by both parties have been delivered to the DOE.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.3.3. Is all information on participants / Parties provided in consistency with details provided by further chapters of the PDD (in particular annex 1)?	1,2	Yes, it is. Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co.,Ltd..and Mitsubishi Corporation are the project participants.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4. Technical description of the small-scale project activity				
<i>A.4.1. Location of the small-scale project activity</i>				
A.4.1.1. Does the information provided on the location of the project activity allow for a clear identification of the site(s)?	1,2	The project location could be clearly identified according to the PDD.The proposed project is in Fengyi Village and Jinyuan Village, which located in Xundian County Yunnan Province, PR China. It has east longitude of 103°06'35'' and north latitude of 25°52'35''. <u>Corrective Action Request No.1.</u> No Chinese should be used in the maps.	GAR4	<input checked="" type="checkbox"/>
A.4.1.2. How is it ensured and/or demonstrated, that the project proponents can im-	1,2 8,11	The project approval issued by Yunnan Xundian Dvelopment and Plan Bureau and the EIA approval issued by Kunming EPB dem-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
plement the project at this site (ownership, licenses, contracts etc.)?		onstrate that the project proponent can implement the project at this site.		
A.4.2. Type and category(ies) and technology/measure of the small-scale project activity				
A.4.2.1. To which type(s) does the project activity belong to? Is the type correctly identified and indicated?	1,2	Type 1- Renewable Energy Project, The type is correctly identified and indicated in the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.2.2. To which category (ies) does the project activity belong to? Is the category correctly identified and indicated?	1,2	Category I.D. - Grid connected renewable electricity generation. The category is correctly identified and indicated in the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.2.3. Does the technical design of the project activity reflect current good practices?	1,2	Yes. The technical design of the project activity reflects current good practices.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.2.4. Does the implementation of the project activity require any technology transfer from Annex-I-countries to the host country (ies)?	1,2	The proposed project adopts domestic technologies and equipment. There is no technology transfer required.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.2.5. Is the technology implemented by the project activity environmentally safe?	1,2 10	<u>Corrective Action Request No.2.</u> According to the SSC PDD guidelines, this section should include the statement of how environmentally safe the project is.	CAR2	<input checked="" type="checkbox"/>
A.4.2.6. Is the information provided in compliance with actual situation or planning?	1,2 14	The type of the turbines and generators provided in the PDD is not in compliance with purchasing agreement and name plate. <u>Corrective Action Request No.3.</u> The information provided in PDD should be corrected according to the purchasing agreement and name plate	CAR3	<input checked="" type="checkbox"/>
A.4.2.7. Does the project use state of the art technology and / or does the technology result in a significantly better performance than any commonly used technologies in the	1,2	Yes, the project uses state of the art technology.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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host country?				
A.4.2.8. Is the project technology likely to be substituted by other or more efficient technologies within the project period?	1,2	No, the project technology is not likely to be substituted by other or more efficient technologies within the project period.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.2.9. Does the project require extensive initial training and maintenance efforts in order to be carried out as scheduled during the project period?	1,2 16	Yes, the training program has been designed for the power plant staff regarding operational knowledge and maintenance regulation. The related documents have been reviewed by the auditor.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.2.10. Is information available on the demand and requirements for training and maintenance?	1,2 16	Yes, information on the demand and requirements for training and maintenance is available in the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.2.11. Is a schedule available for the implementation of the project and are there any risks for delays?	1,2 7,9 15	The construction has been completed. There is no delay till the on-site visit. See B.5.14. Corrective Action Request No.7	CAR6	<input checked="" type="checkbox"/>
A.4.3. Estimated amount of emission reductions over the chosen crediting period				
A.4.3.1. Is the form required for the indication of projected emission reductions correctly applied?	1,2	Corrective Action Request No.4. According to Guidelines for completing the simplified project design document (Version 05) the 2 nd column head should be corrected as "Estimation of annual emission reductions in tonnes of CO ₂ e"	CAR4	<input checked="" type="checkbox"/>
A.4.3.2. Are the figures provided consistent with other data presented in the PDD?	1,2	The provided figures are consistent with data presented in other sections of the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.3. Are the figures consistent with the small-scale criteria for the used Type?	1,2	Yes. The installed capacity of the hydropower project is 12.6MW, less than the limit of 15MW for a small-scale CDM project.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.4. Public funding of the small-scale project activity				

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A.4.4.1. Is the information provided on public funding provided in compliance with the actual situation or planning as available by the project participants?	1,2	Yes. There is no public funding necessary; all costs are covered by bank loans and private equity.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
A.4.4.2. Is all information provided consistent with the details given in remaining chapters of the PDD (in particular annex 2)?	1,2	The statements are consistent within the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
A.4.5. Confirmation that the small-scale project activity is not a debundled component of a large scale project activity					
A.4.5.1. Is there a registered small-scale CDM project activity or an application to register another small-scale CDM project activity with the following characteristics:	1,2	Debundling checklist		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		the same project participants?	Yes / No		
		In the same project category and technology/measure?	No		
		Registered within previous two years? Or in registration process?	No		
		Whose boundary is within 1 km of the project boundary of the small scale project activity under consideration?	No		
A.4.5.2. If the answer to all the above question is 'Yes' then does the total size of the small scale project activity combined with previously registered small scale CDM project activity exceeds the limits of small scale CDM project activities?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
B. Application of a baseline and monitoring methodology					
B.1. Title and reference of the approved baseline and monitoring methodology applied to the small-scale project activity					
B.1.1.1. Are reference number, version number,	1,2	The applicable Small Scale baseline methodology I.D. "Grid con-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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and title of the baseline and monitoring methodology clearly indicated?		nected renewable electricity generation” (version 13) and “Tool to Calculate the Emission Factor for an Electricity System” (version 01) are clearly indicated.										
B.1.1.2. Is the applied version the most recent one and / or is this version still applicable?	1,2	At the time of validation, AMS.I.D (version 13) has been the most recent one. Corrective Action Request No.5. The latest version of “Tool to Calculate the Emission Factor for an Electricity System” is V01.1; please revise in the PDD accordingly.	GAR5	<input checked="" type="checkbox"/>								
B.2. Justification of the choice of the project category												
B.2.1. Is the applied methodology considered the most appropriate one?	1,2	Yes. The applied methodology is considered to be the most appropriate one. According to the General Guidance of CDM-EB Indicative Simplified Baseline and Monitoring Methodologies for Selected Small-scale CDM Project Activity Categories, the installed capacity of proposed project is 12.6MW which is satisfied with the eligibility limit of 15MW for a small-scale CDM project activity.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
B.2.1.1. Criterion 1: This category comprises renewable energy generation units, such as photovoltaics, hydro, tidal/wave, wind, geothermal and renewable biomass, that supply electricity to and/or displace electricity from an electricity distribution system that is or would have been supplied by at least one fossil fuel fired generating unit.	1,2	<table border="1"> <thead> <tr> <th>Applicability checklist</th> <th>Yes / No / NA</th> </tr> </thead> <tbody> <tr> <td>Criterion discussed in the PDD?</td> <td>Yes</td> </tr> <tr> <td>Compliance provable?</td> <td>Yes</td> </tr> <tr> <td>Compliance verified?</td> <td>Yes</td> </tr> </tbody> </table>	Applicability checklist	Yes / No / NA	Criterion discussed in the PDD?	Yes	Compliance provable?	Yes	Compliance verified?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No / NA											
Criterion discussed in the PDD?	Yes											
Compliance provable?	Yes											
Compliance verified?	Yes											
B.2.1.2. Criterion 2: If the unit added has both renewable and non-renewable compo-	1,2		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

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CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD								
nents (e.g.. a wind/diesel unit), the eligibility limit of 15MW for a small-scale CDM project activity applies only to the renewable component. If the unit added co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15MW.		<table border="1"> <tr> <td>Applicability checklist</td> <td>Yes / No / NA</td> </tr> <tr> <td>Criterion discussed in the PDD?</td> <td>NA</td> </tr> <tr> <td>Compliance provable?</td> <td>NA</td> </tr> <tr> <td>Compliance verified?</td> <td>NA</td> </tr> </table>	Applicability checklist	Yes / No / NA	Criterion discussed in the PDD?	NA	Compliance provable?	NA	Compliance verified?	NA		
Applicability checklist	Yes / No / NA											
Criterion discussed in the PDD?	NA											
Compliance provable?	NA											
Compliance verified?	NA											
B.2.1.3. Criterion 3: Combined heat and power (co-generation) systems that supply electricity to and/or displace electricity from a grid are not included in this category.	1,2	<table border="1"> <tr> <td>Applicability checklist</td> <td>Yes / No / NA</td> </tr> <tr> <td>Criterion discussed in the PDD?</td> <td>NA</td> </tr> <tr> <td>Compliance provable?</td> <td>NA</td> </tr> <tr> <td>Compliance verified?</td> <td>NA</td> </tr> </table>	Applicability checklist	Yes / No / NA	Criterion discussed in the PDD?	NA	Compliance provable?	NA	Compliance verified?	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No / NA											
Criterion discussed in the PDD?	NA											
Compliance provable?	NA											
Compliance verified?	NA											
B.2.1.4. Criterion 4: In the case of project activities that involve the addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct from the existing units.	1,2	<table border="1"> <tr> <td>Applicability checklist</td> <td>Yes / No / NA</td> </tr> <tr> <td>Criterion discussed in the PDD?</td> <td>NA</td> </tr> <tr> <td>Compliance provable?</td> <td>NA</td> </tr> <tr> <td>Compliance verified?</td> <td>NA</td> </tr> </table>	Applicability checklist	Yes / No / NA	Criterion discussed in the PDD?	NA	Compliance provable?	NA	Compliance verified?	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No / NA											
Criterion discussed in the PDD?	NA											
Compliance provable?	NA											
Compliance verified?	NA											
B.2.1.5. Criterion 5: Project activities that seek to retrofit or modify an existing facility for renewable energy generation are included in this category. To qualify as a small scale project, the total output of the modified or retrofitted unit shall not	1,2	<table border="1"> <tr> <td>Applicability checklist</td> <td>Yes / No / NA</td> </tr> <tr> <td>Criterion discussed in the PDD?</td> <td>NA</td> </tr> <tr> <td>Compliance provable?</td> <td>NA</td> </tr> <tr> <td>Compliance verified?</td> <td>NA</td> </tr> </table>	Applicability checklist	Yes / No / NA	Criterion discussed in the PDD?	NA	Compliance provable?	NA	Compliance verified?	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No / NA											
Criterion discussed in the PDD?	NA											
Compliance provable?	NA											
Compliance verified?	NA											

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exceed the limit of 15 MW.				
B.2.1.6. If the project is under a programme of activities, have all the applicability criteria and additional requirements been considered according to the methodology?	1,2	A programme of activities as indicated in Annex 38 of EB 32 report is not applicable here.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.3. Description of the project boundary				
B.3.1. Does the project boundary include physical, geographical site where the project activity takes place?	1,2	Yes, the project boundary of the South China Power Grid is clearly identified.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.3.2. Do the spatial and technological boundaries as verified on-site comply with the discussion provided by / indication included to the PDD?	1,2	Yes, the boundary of the project has been verified on-site, the project is located within the project boundaries.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4. Description of baseline and its development				
B.4.1. Have all technically feasible baseline scenario alternatives to the project activity been identified and discussed by the PDD? Why can this list be considered as being complete?	1,2	According to AMS - I.D paragraph 9, for all other systems, the baseline is the KWh produced by the renewable generating unit multiplied by an emission coefficient (measured in kg CO ₂ e/kWh) calculated in a transparent and conservative manner. <u>Corrective Action Request No.6.</u> No baseline scenario alternatives should be discussed by the PDD.	CAR6	<input checked="" type="checkbox"/>
B.4.2. Does the project identify correctly and excludes those options not in line with regulatory or legal requirements?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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B.4.3. Have applicable regulatory or legal requirements been identified?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4.4. Does the PDD identify the most likely baseline scenario in absence of the project activity?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4.5. Is this identification supported by official and/or verifiable documents (e.g. studies, web pages, certificates, etc)?	1,2	Yes, annex 3 provides detailed information about the determination of the emission factor which is supported by official documents issued by NDRC.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4.6. Is the identified baseline scenario in line with regulatory or legal requirements?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5. Description of how the anthropogenic emissions of GHG by sources are reduced below those that would have occurred in the absence of the registered small-scale CDM project activity:				
If the additionality tool has been used please answer B.5.1 to B.5.13				
B.5.1. Has CDM been considered before the starting date of the project activity? What kind of evidences are available?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.2. In case of applying step 2 / investment analysis of the additionality tool: Is the analysis method identified appropriately (step 2a)?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.3. In case of Option I (simple cost analysis): Is it demonstrated that the activity produces no economic benefits other than CDM income?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.4. In case of Option II (investment comparison analysis): Is the most suitable finan-		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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cial indicator clearly identified (IRR, NPV, cost benefit ratio, or (levelized) unit cost)?				
B.5.5. In case of Option III (benchmark analysis): Is the most suitable financial indicator clearly identified (IRR, NPV, cost benefit ratio, or (levelized) unit cost)?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.6. In case of Option II or Option III: Is the calculation of financial figures for this indicator correctly done for all alternatives and the project activity?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.7. In case of Option II or Option III: Is the analysis presented in a transparent manner including publicly available proofs for the utilized data?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.8. In case of applying step 3 (barrier analysis) of the additionality tool: Is a complete list of barriers developed that prevent the different alternatives to occur?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.9. In case of applying step 3 (barrier analysis): Is transparent and documented evidence provided on the existence and significance of these barriers?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.10. In case of applying step 3 (barrier analysis): Is it transparently shown that the execution of at least one of the alternatives is not prevented by the identified barriers?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.11. Have other activities in the host country / region similar to the project activity been		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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identified and are these activities appropriately analyzed by the PDD (step 4a)?				
B.5.12. If similar activities are occurring: Is it demonstrated that in spite of these similarities the project activity would not be implemented without the CDM component (step 4b)? How?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.13. Is it appropriately explained how the approval of the project activity will help to overcome the economic and financial hurdles or other identified barriers?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
If the additionality tool has not been used please answer B.5.14 to B.5.19				
B.5.14. If the starting date of the project activity is before the date of validation, is evidence available to prove that incentive from the CDM was seriously considered in the decision to proceed with the project activity?	1,2 9	Yes, The meeting of the Board of Directors which was held on 28/09/2005 proves that incentive from the CDM was seriously considered in the decision to proceed with the project activity. The meeting minutes has been reviewed by auditor. <u>Corrective Action Request No.7.</u> 1. Project participants are requested to provide in section B.5 a timetable for the implementation of the project activity. This timetable should clearly indicate the starting date of construction and operation, the date of the preliminary design, the date when the investment decision was made, and the date when CDM was seriously considered, with description of the support evidences. 2. The English version of meeting minutes which is partially inconsistent with original file should be corrected.	GAR7	<input checked="" type="checkbox"/>
B.5.15. Is a complete list of barriers developed that prevents the project activity to occur?	1,2 4	The project activity shows via an investment analysis (project IRR versus benchmark) that the project activity is financially unattractive without CDM, i.e. shows that there exists an investment bar-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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		rier to the project activity.																	
B.5.16. Does this list include at least one of the following barriers?	1,2 4	<table border="1"> <thead> <tr> <th>Barrier</th> <th>Discussed?</th> <th>Verifiable?</th> </tr> </thead> <tbody> <tr> <td>Investment</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Technological</td> <td>No</td> <td>No</td> </tr> <tr> <td>Due to prevailing practice</td> <td>No</td> <td>No</td> </tr> <tr> <td>Other</td> <td>No</td> <td>No</td> </tr> </tbody> </table>	Barrier	Discussed?	Verifiable?	Investment	Yes	Yes	Technological	No	No	Due to prevailing practice	No	No	Other	No	No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Barrier	Discussed?	Verifiable?																	
Investment	Yes	Yes																	
Technological	No	No																	
Due to prevailing practice	No	No																	
Other	No	No																	
B.5.17. Does the discussion sufficiently take into account relevant national and/or sectoral policies?	1,2 4	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
B.5.18. Is transparent and documented evidence provided on the existence and significance of these barriers?	1,2 4,7	<p>It has been submitted a transparent IRR calculation, showing that the IRR is clearly below the benchmark. However, the parameters listed in PDD for financial analysis and the data used for IRR calculation are not completely consistent with those in the claimed data source Preliminary Design Report.</p> <p><u>Corrective Action Request No.8.</u></p> <ol style="list-style-type: none"> No Chinese should be used in IRR Excel sheet. The reason for choosing $\pm 10\%$ variation in the critical assumption for sensitivity analysis should be explained in the PDD. Each of the four parameters for sensitivity analysis should be discussed in depth respectively. The full scale of Y-axis of Figure B-1 should be consistent with the text analysis <i>i.e.</i> 10% The footnote of the data source indicated that the Preliminary Design Report was approved by Guizhou DRC. How- 	CAR8 CR1 CR2	<input checked="" type="checkbox"/>															

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		<p>ever the approver should be Yunnan Xundian Development and Plan Bureau.</p> <p>6. Please present the calculation process for the sensitivity analysis data in Table B-4 of the PDD.</p> <p><u>Clarification Request No. 1.</u></p> <p>1. The following parameters indicated in the PDD are not consistent with those in the claimed data source Preliminary Design Report:</p> <ol style="list-style-type: none"> 1) Feed-in-Tariff excluding VAT 2) Income Tax 3) O & M Cost <p>2. The following data used for IRR calculation in Excel sheet are not consistent with those in the claimed data source Preliminary Design Report:</p> <ol style="list-style-type: none"> 1) Income Tax 2) Average personal Pay 3) Running Expenses & Cost (O & M Cost) 4) Fixed investment 5) Construction period 6) Floating capital <p><u>Clarification Request No. 2.</u></p> <p>1. Please clarify why there are different IRR results when feed-in-tariff and electricity output have the same variations (Table B-4, Figure B-1 of the PDD).</p> <p>2. Evidences for the benchmark and feed-in-tariff should be submitted to DOE.</p> <p>3. Please clarify the definition of small-scale hydropower in China</p>		

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		(smaller than 25MW?).								
B.5.19. Is it appropriately explained how the approval of the project activity will help to overcome the identified barriers?	1,2 4	Yes. CERs sales revenue will improve the financial indicators of the proposed project and alleviate the financial burden of the project owner.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
B.6. Emissions reductions										
B.6.1. <i>Explanation of methodological choices</i>										
B.6.1.1. Is it explained how the procedures provided in the methodology are applied by the proposed project activity?	1,2	Yes, all necessary information and formulae are indicated.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
B.6.1.2. Is every selection of options offered by the methodology correctly justified and is this justification in line with the situation verified on-site?	1,2	Yes, the selection of options offered by "Tool to calculate the emission factor for an electricity system" is correctly justified which has been verified during the on-site audit. <u>Clarification Request No. 3.</u> 1. Page 12 of the PDD; please clarify what the first paragraph under point no.1 of section B.6.1 accounts for. 2. Page 14 of the PDD, Please justify the selection of sample group in the build margin.	CR3	<input checked="" type="checkbox"/>						
Determination of project emissions (Comment on any line answered "No")										
B.6.1.3. Component 1: emissions from use of fossil fuel	1,2	There are no emissions from the use of fossil fuels due to the project activity. <table border="1"> <tr> <td>Project emission checklist</td> <td>Yes / No</td> </tr> <tr> <td>Component discussed in the PDD?</td> <td>N/A</td> </tr> <tr> <td>Formulae correctly applied?</td> <td>N/A</td> </tr> </table>	Project emission checklist	Yes / No	Component discussed in the PDD?	N/A	Formulae correctly applied?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Project emission checklist	Yes / No									
Component discussed in the PDD?	N/A									
Formulae correctly applied?	N/A									
B.6.1.4. Are the formulae required for the determination of baseline emissions correctly pre-	1,2	Yes, formulae to calculate baseline emissions are correctly presented in chapter B.6.3 of the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

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sented, enabling a complete identification of parameters to be used and / or monitored?						
B.6.1.5. Are the formulae required for the determination of leakage emissions correctly presented, enabling a complete identification of parameter to be used and / or monitored?	1,2	There are no leakage emissions, thus formula not applicable.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
B.6.1.6. Are the formulae required for the determination of emission reductions correctly presented?	1,2	Yes, formulae required for the determination of emission reductions are correctly presented in B.6.3 of the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
B.6.2. Data and parameters that are available at validation						
B.6.2.1. Is the list of parameters presented in chapter B.6.2 considered to be complete with regard to the requirements of the applied methodology?	1,2	<p>The list of parameters presented in chapter B.6.2 may not be considered to be complete.</p> <p><u>Corrective Action Request No.9.</u></p> <p>1. The following parameters are missing and have to be included in B.6.2 of the PDD:</p> <ul style="list-style-type: none"> 1) Electricity imports (from other electricity grids to the south China Power grid) 2) CO₂ emission coefficient of fuels used in connected grids (import source) <p>2. The abbreviation of the parameters of “The installed capacity of different types of power in recent years” and “The highest efficiency of electricity supply” should be applied.</p>	CAR9	<input checked="" type="checkbox"/>		
B.6.2.2. Parameter Title: Annual electricity supplied to the grid prior to retrofit	1,2	<table border="1" style="width: 100%;"> <tr> <td>Data Checklist</td> <td>Yes / No</td> </tr> </table>	Data Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No					

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(applicable only for retrofit and modification activities)		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided?	N/A		
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		
B.6.2.3. Parameter Title: Emission factor of the grid (CM)	1,2	Calculation result		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Data Checklist	Yes / No		
		Title in line with methodology?	Yes		
		Data unit correctly expressed?	Yes		
		Appropriate description of parameter?	Yes		
		Source clearly referenced?	Yes		
		Correct value provided?	Yes		
		Has this value been verified?	Yes		
		Choice of data correctly justified?	Yes		
		Measurement method correctly described?	Yes		
B.6.2.4. Parameter Title:	1,2	Calculation result		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Operating margin (OM) emission factor of the grid		Data Checklist	Yes / No		
		Title in line with methodology?	Yes		
		Data unit correctly expressed?	Yes		
		Appropriate description?	Yes		
		Source clearly referenced?	Yes		
		Correct value provided?	Yes		
		Has this value been verified?	Yes		
		Choice of data correctly justified?	Yes		
		Measurement method correctly described?	Yes		
B.6.2.5. Parameter Title: Build margin (BM) emission factor of the grid	1,2	Calculation result		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Data Checklist	Yes / No		
		Title in line with methodology?	Yes		
		Data unit correctly expressed?	Yes		
		Appropriate description of parameter?	Yes		
		Source clearly referenced?	Yes		
		Correct value provided?	Yes		
		Has this value been verified?	Yes		
		Choice of data correctly justified?	Yes		
		Measurement method correctly described?	Yes		

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B.6.2.6. Parameter Title: fuel consumption of each power source	1,2	<p>Corrective Action Request No.10. Regarding the parameter “fuel consumption of each power source”, the title and value applied have to be revised according to the “Tool to calculate the emission factor for an electricity system (version 01.1)”.</p> <table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr> <td>Title in line with methodology?</td> <td>No</td> </tr> <tr> <td>Data unit correctly expressed?</td> <td>Yes</td> </tr> <tr> <td>Appropriate description of parameter?</td> <td>Yes</td> </tr> <tr> <td>Source clearly referenced?</td> <td>Yes</td> </tr> <tr> <td>Correct value provided?</td> <td>No</td> </tr> <tr> <td>Has this value been verified?</td> <td>Yes</td> </tr> <tr> <td>Choice of data correctly justified?</td> <td>Yes</td> </tr> <tr> <td>Measurement method correctly described?</td> <td>N/A</td> </tr> </tbody> </table>	Data Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided?	No	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	Measurement method correctly described?	N/A	CAR10	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	No																					
Data unit correctly expressed?	Yes																					
Appropriate description of parameter?	Yes																					
Source clearly referenced?	Yes																					
Correct value provided?	No																					
Has this value been verified?	Yes																					
Choice of data correctly justified?	Yes																					
Measurement method correctly described?	N/A																					
B.6.2.7. Parameter Title: emission coefficient of each fuel	1,2	<table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr> <td>Title in line with methodology?</td> <td>Yes</td> </tr> </tbody> </table>	Data Checklist	Yes / No	Title in line with methodology?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
Data Checklist	Yes / No																					
Title in line with methodology?	Yes																					

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		<table border="1"> <tr> <td>Data unit correctly expressed?</td> <td>Yes</td> </tr> <tr> <td>Appropriate description of parameter?</td> <td>Yes</td> </tr> <tr> <td>Source clearly referenced?</td> <td>Yes</td> </tr> <tr> <td>Correct value provided?</td> <td>Yes</td> </tr> <tr> <td>Has this value been verified?</td> <td>Yes</td> </tr> <tr> <td>Choice of data correctly justified?</td> <td>Yes</td> </tr> <tr> <td>Measurement method correctly described?</td> <td>N/A</td> </tr> </table>	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided?	Yes	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	Measurement method correctly described?	N/A				
Data unit correctly expressed?	Yes																			
Appropriate description of parameter?	Yes																			
Source clearly referenced?	Yes																			
Correct value provided?	Yes																			
Has this value been verified?	Yes																			
Choice of data correctly justified?	Yes																			
Measurement method correctly described?	N/A																			
B.6.2.8. Parameter Title: electricity generation of each power source	1,2	<p><u>Corrective Action Request No.11.</u> Regarding the parameter “electricity generation of each power source”, the title and description have to be revised as according to “Tool to calculate the emission factor for an electricity system (version 01.1)”.</p> <table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr> <td>Title in line with methodology?</td> <td>No</td> </tr> <tr> <td>Data unit correctly expressed?</td> <td>Yes</td> </tr> <tr> <td>Appropriate description of parameter?</td> <td>No</td> </tr> <tr> <td>Source clearly referenced?</td> <td>Yes</td> </tr> <tr> <td>Correct value provided?</td> <td>Yes</td> </tr> <tr> <td>Has this value been verified?</td> <td>Yes</td> </tr> <tr> <td>Choice of data correctly justified?</td> <td>Yes</td> </tr> </tbody> </table>	Data Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	Yes	Appropriate description of parameter?	No	Source clearly referenced?	Yes	Correct value provided?	Yes	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	CAR14	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																			
Title in line with methodology?	No																			
Data unit correctly expressed?	Yes																			
Appropriate description of parameter?	No																			
Source clearly referenced?	Yes																			
Correct value provided?	Yes																			
Has this value been verified?	Yes																			
Choice of data correctly justified?	Yes																			

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		Measurement method correctly described? No																				
B.6.2.9. Parameter Title: surface area of full reservoir level (for new hydroelectric activities only)	1,2	<table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr> <td>Title in line with methodology?</td> <td>N/A</td> </tr> <tr> <td>Data unit correctly expressed?</td> <td>N/A</td> </tr> <tr> <td>Appropriate description of parameter?</td> <td>N/A</td> </tr> <tr> <td>Source clearly referenced?</td> <td>N/A</td> </tr> <tr> <td>Correct value provided?</td> <td>N/A</td> </tr> <tr> <td>Has this value been verified?</td> <td>N/A</td> </tr> <tr> <td>Choice of data correctly justified?</td> <td>N/A</td> </tr> <tr> <td>Measurement method correctly described?</td> <td>N/A</td> </tr> </tbody> </table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
Data unit correctly expressed?	N/A																					
Appropriate description of parameter?	N/A																					
Source clearly referenced?	N/A																					
Correct value provided?	N/A																					
Has this value been verified?	N/A																					
Choice of data correctly justified?	N/A																					
Measurement method correctly described?	N/A																					
B.6.2.10. Parameter Title: fraction of time with low costs /must run plant at the margin (for simple adjusted OM only)	1,2	<table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr> <td>Title in line with methodology?</td> <td>N/A</td> </tr> <tr> <td>Data unit correctly expressed?</td> <td>N/A</td> </tr> <tr> <td>Appropriate description of parameter?</td> <td>N/A</td> </tr> <tr> <td>Source clearly referenced?</td> <td>N/A</td> </tr> </tbody> </table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
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Source clearly referenced?	N/A																					

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CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD																		
		<table border="1"> <tr> <td>Correct value provided?</td> <td>N/A</td> </tr> <tr> <td>Has this value been verified?</td> <td>N/A</td> </tr> <tr> <td>Choice of data correctly justified?</td> <td>N/A</td> </tr> <tr> <td>Measurement method correctly described?</td> <td>N/A</td> </tr> </table>	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A												
Correct value provided?	N/A																					
Has this value been verified?	N/A																					
Choice of data correctly justified?	N/A																					
Measurement method correctly described?	N/A																					
B.6.2.11. Parameter Title: electricity imports	1,2	<p>In the case of electricity imports from other electricity grids to the South China power grid, this parameter is relevant and has to be included in B.6.2 of the PDD.</p> <p>See B.6.2.1 Corrective Action Request No.9</p> <table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr> <td>Title in line with methodology?</td> <td>No</td> </tr> <tr> <td>Data unit correctly expressed?</td> <td>No</td> </tr> <tr> <td>Appropriate description of parameter?</td> <td>No</td> </tr> <tr> <td>Source clearly referenced?</td> <td>No</td> </tr> <tr> <td>Correct value provided?</td> <td>No</td> </tr> <tr> <td>Has this value been verified?</td> <td>No</td> </tr> <tr> <td>Choice of data correctly justified?</td> <td>No</td> </tr> <tr> <td>Measurement method correctly described?</td> <td>No</td> </tr> </tbody> </table>	Data Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided?	No	Has this value been verified?	No	Choice of data correctly justified?	No	Measurement method correctly described?	No	CAR8	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	No																					
Data unit correctly expressed?	No																					
Appropriate description of parameter?	No																					
Source clearly referenced?	No																					
Correct value provided?	No																					
Has this value been verified?	No																					
Choice of data correctly justified?	No																					
Measurement method correctly described?	No																					
B.6.2.12. Parameter Title:	1,2	In the case of electricity imports from other electricity grids to the	CAR8	<input checked="" type="checkbox"/>																		

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CO ₂ emission coefficient of fuels used in connected grids		<p>south China power grid, this parameter is relevant and has to be included in B.6.2 of the PDD.</p> <p>See B.6.2.1 Corrective Action Request No.9</p> <table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr> <td>Title in line with methodology?</td> <td>No</td> </tr> <tr> <td>Data unit correctly expressed?</td> <td>No</td> </tr> <tr> <td>Appropriate description of parameter?</td> <td>No</td> </tr> <tr> <td>Source clearly referenced?</td> <td>No</td> </tr> <tr> <td>Correct value provided?</td> <td>No</td> </tr> <tr> <td>Has this value been verified?</td> <td>No</td> </tr> <tr> <td>Choice of data correctly justified?</td> <td>No</td> </tr> <tr> <td>Measurement method correctly described?</td> <td>No</td> </tr> </tbody> </table>	Data Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided?	No	Has this value been verified?	No	Choice of data correctly justified?	No	Measurement method correctly described?	No		
Data Checklist	Yes / No																					
Title in line with methodology?	No																					
Data unit correctly expressed?	No																					
Appropriate description of parameter?	No																					
Source clearly referenced?	No																					
Correct value provided?	No																					
Has this value been verified?	No																					
Choice of data correctly justified?	No																					
Measurement method correctly described?	No																					
B.6.3. Ex-ante calculation of emission reductions																						
B.6.3.1. Is the projection based on the same procedures as used for future monitoring? What kind of procedure is used?	1,2	<p>Yes. The projection is based on the same procedures as used for future monitoring.</p> <p>Procedures as according to the methodologies AMS I-D and ACM0002 are used for the calculation of emission reductions.</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
B.6.3.2. Are the GHG calculations documented in a complete and transparent manner?	1,2	GHG calculations are documented in a complete and transparent manner.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
B.6.3.3. If there is more than one component of the project activity, then, are emission reduction calculations provided separately for each component?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
B.6.3.4. Is the data provided in this section consistent with data presented in other sections?	1,2	Yes, the data provided is consistent with data presented in other sections.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		

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tent with data as presented in other chapters of the PDD?		chapters of the PDD.		
B.6.4. Summary of the ex-ante estimation of emission reductions				
B.6.4.1. Will the project result in fewer GHG emissions than the baseline scenario?	1,2	The project definitely will result in fewer GHG emissions than the baseline scenario.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.4.2. Is the form/table required for the indication of projected emission reductions correctly applied?	1,2	Yes, the form is correctly applied according to the PDD template.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.4.3. If the project activity involves more than one component, is separate table included for each of the component.	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.4.4. Do these values comply with small-scale criteria for every year?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.4.5. Is the projection in line with the envisioned time schedule for the project's implementation and the indicated crediting period?	1,2	Yes, it is.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.4.6. Is the data provided in this section in consistency with data as presented in other chapters of the PDD?	1,2	Yes, the data provided is consistent with data presented in other chapters of the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.7. Application of the monitoring methodology and description of the monitoring plan				
B.7.1. Data and parameters monitored				
B.7.1.1. Is the list of parameters presented in chapter B.7.1 considered to be complete with regard to the requirements of the applied methodology?	1,2	The list of parameters presented in chapter B.7.1 is considered to be complete. The parameter EGy-- is the parameter that shall be monitored and recorded.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Comment on any line answered with "No"				

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B.7.1.1.1. Parameter Title: Electricity generated by the renewable technology	1,2	<table border="1"> <thead> <tr> <th>Monitoring Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr><td>Title in line with methodology?</td><td>Yes</td></tr> <tr><td>Data unit correctly expressed?</td><td>Yes</td></tr> <tr><td>Appropriate description of parameter?</td><td>Yes</td></tr> <tr><td>Source clearly referenced?</td><td>Yes</td></tr> <tr><td>Correct value provided for estimation?</td><td>Yes</td></tr> <tr><td>Has this value been verified?</td><td>Yes</td></tr> <tr><td>Measurement method correctly described?</td><td>Yes</td></tr> <tr><td>Correct reference to standards?</td><td>Yes</td></tr> <tr><td>Indication of accuracy provided?</td><td>Yes</td></tr> <tr><td>QA/QC procedures described?</td><td>Yes</td></tr> <tr><td>QA/QC procedures appropriate?</td><td>Yes</td></tr> </tbody> </table>	Monitoring Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided for estimation?	Yes	Has this value been verified?	Yes	Measurement method correctly described?	Yes	Correct reference to standards?	Yes	Indication of accuracy provided?	Yes	QA/QC procedures described?	Yes	QA/QC procedures appropriate?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																											
Title in line with methodology?	Yes																											
Data unit correctly expressed?	Yes																											
Appropriate description of parameter?	Yes																											
Source clearly referenced?	Yes																											
Correct value provided for estimation?	Yes																											
Has this value been verified?	Yes																											
Measurement method correctly described?	Yes																											
Correct reference to standards?	Yes																											
Indication of accuracy provided?	Yes																											
QA/QC procedures described?	Yes																											
QA/QC procedures appropriate?	Yes																											
B.7.1.1.2. Amount of biomass input (if applicable)		<table border="1"> <thead> <tr> <th>Monitoring Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr><td>Title in line with methodology?</td><td>N/A</td></tr> <tr><td>Data unit correctly expressed?</td><td>N/A</td></tr> <tr><td>Appropriate description of parameter?</td><td>N/A</td></tr> <tr><td>Source clearly referenced?</td><td>N/A</td></tr> <tr><td>Correct value provided for estimation?</td><td>N/A</td></tr> <tr><td>Has this value been verified?</td><td>N/A</td></tr> <tr><td>Measurement method correctly described?</td><td>N/A</td></tr> <tr><td>Correct reference to standards?</td><td>N/A</td></tr> <tr><td>Indication of accuracy provided?</td><td>N/A</td></tr> <tr><td>QA/QC procedures described?</td><td>N/A</td></tr> <tr><td>QA/QC procedures appropriate?</td><td>N/A</td></tr> </tbody> </table>	Monitoring Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																											
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B.7.1.1.3. Amount of fossil fuel (if applicable)		<table border="1"> <thead> <tr> <th>Monitoring Checklist</th> <th>Yes / No</th> </tr> </thead> <tbody> <tr> <td>Title in line with methodology?</td> <td>N/A</td> </tr> <tr> <td>Data unit correctly expressed?</td> <td>N/A</td> </tr> <tr> <td>Appropriate description of parameter?</td> <td>N/A</td> </tr> <tr> <td>Source clearly referenced?</td> <td>N/A</td> </tr> <tr> <td>Correct value provided for estimation?</td> <td>N/A</td> </tr> <tr> <td>Has this value been verified?</td> <td>N/A</td> </tr> <tr> <td>Measurement method correctly described?</td> <td>N/A</td> </tr> <tr> <td>Correct reference to standards?</td> <td>N/A</td> </tr> <tr> <td>Indication of accuracy provided?</td> <td>N/A</td> </tr> <tr> <td>QA/QC procedures described?</td> <td>N/A</td> </tr> <tr> <td>QA/QC procedures appropriate?</td> <td>N/A</td> </tr> </tbody> </table>	Monitoring Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																											
Title in line with methodology?	N/A																											
Data unit correctly expressed?	N/A																											
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Correct reference to standards?	N/A																											
Indication of accuracy provided?	N/A																											
QA/QC procedures described?	N/A																											
QA/QC procedures appropriate?	N/A																											
B.7.2. Description of the monitoring plan																												
B.7.2.1. Is the operational and management structure clearly described and in compliance with the envisioned situation?	1,2	The data recording method and the monitoring management structure are described in Chapter B.7.2.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																								
B.7.2.2. Are responsibilities and institutional arrangements for data collection and archiving clearly provided?	1,2	Yes, responsibilities and institutional arrangements for data collection and archiving are clearly provided.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																								
B.7.2.3. Does the monitoring plan provide current good monitoring practice?	1,2	Yes, the monitoring plan provides current good monitoring practice.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																								
B.7.2.4. If applicable: Does annex 4 provide useful information enabling a better understanding of the envisioned monitoring provisions?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																								

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B.8. Date of completion of the application of the baseline study and monitoring methodology an the name of the responsible person(s)/entity(ies)				
B.8.1.1. Is there any indication of a date when the baseline was determined?	1,2	The baseline was determined on December 30, 2007.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8.1.2. Has dd/mm/yyyy format been used to indicate the date.	1,2	<u>Corrective Action Request No.12.</u> Please provide date of completion of the application of the methodology to the project activity in DD/MM/YYYY.	GAR12	<input checked="" type="checkbox"/>
B.8.1.3. Is this consistent with the time line of the PDD history?	1,2	Yes, this is consistent with the time line of the PDD history.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8.1.4. Is the information on the person(s) / entity (ies) responsible for the application of the baseline and monitoring methodology provided consistent with the actual situation?	1,2	Mr. Zhaomi from Yunnan Ruiheng Lianhe Energy Development Co.Ltd., Mr. Chen Yifei and Ms. Yang Lusi from Beijing Ruichi Electric Power Information Technology Co.Ltd are responsible for the application of the methodology.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8.1.5. Is information provided whether this person / entity is also considered a project participant?	1,2	<u>Corrective Action Request No.13.</u> It should be indicated whether these persons are also considered project participants.	GAR13	<input checked="" type="checkbox"/>
C. Duration of the project activity / crediting period				
C.1. Duration of the project activity				
C.1.1. Are the project's starting date and operational lifetime clearly defined and reasonable? Is it the earliest date of construction, implementation or real action?	1,2 14 15	<u>Clarification Request No. 4.</u> The starting date of the project activity indicated in the PDD (08/05/2005) is not consistent with the evidences provided to DOE, neither the starting date of construction (09/01/2006) nor the date of purchasing agreement (22/09/2006), please clarify.	CR4	<input checked="" type="checkbox"/>
C.2. Choice of the crediting period and related information				
C.2.1. Is the assumed crediting time clearly defined	1,2	7 years with potential for 2 renewals is chosen as the crediting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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and reasonable (renewable crediting period of max 7 years with potential for 2 renewals or fixed crediting period of max. 10 years)?		period.		
C.2.2. Has dd/mm/yyyy format been used to indicate the start date of the crediting period.	1,2	Yes, the correct format is indicated.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D. Environmental impacts				
D.1. If required by the host Party, documentation on the analysis of the environmental impacts of the project activity:				
D.1.1. Are there any Host Party requirements for an Environmental Impact Assessment (EIA), and if yes, has an EIA been approved? If yes answer also D.1.2 to D.1.4	1,2 10 11	Yes, EIA has been proved and approved by Kunming EPB. However, the PDD does not mention the date when the EIA has been approved. <u>Corrective Action Request No.14.</u> Project participants are requested to mention the date in the PDD when the EIA has been approved.	GAR14	<input checked="" type="checkbox"/>
D.1.2. Has the analysis of the environmental impacts of the project activity been sufficiently described?	1,2 10 11	Yes. The analysis of the environmental impacts of the project activity has been sufficiently described.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.1.3. Will the project create any adverse environmental effects?	1,2 10 11	Referring to the EIA and the approval of EIA, the project will create no negative environmental impacts.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.1.4. Were transboundary environmental impacts identified in the analysis?	1,2 10 11	Not applicable, there are no transboundary impacts described neither in the EIA report nor its approval.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.2. If environmental impacts are considered significant by the project participants or the host Party, please provide conclusions and all references to support documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party				
D.2.1. Have the identified environmental impacts	1,2	Referring to the EIA and the approval of EIA, there are no signifi-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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been addressed in the project design sufficiently?	10 11	cant adverse environmental impacts from the project activity.		
D.2.2. Does the project comply with environmental legislation in the host country?	1,2 10 11	Yes, the project is in conformity with the environmental legislation of P. R. China and the EIA has been approved by the authorized organization.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E. Stakeholders' comments				
E.1. Brief description how comments by local stakeholders have been invited and compiled				
E.1.1. Have relevant stakeholders been consulted?	1,2 17	Yes, questionnaires have been distributed to the relevant stakeholders. Corrective Action Request No.15. The date on which the survey conducted and the copies of questionnaires should be indicated in the PDD.	CAR15	<input checked="" type="checkbox"/>
E.1.2. Have appropriate media been used to invite comments by local stakeholders?	1,2 17	The questionnaires have been used to invite comments by local stakeholders.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.1.3. If a stakeholder consultation process is required by regulations/laws in the host country, has the stakeholder consultation process been carried out in accordance with such regulations/laws?	1,2 17	There are no regulations/laws in China for carrying out the stakeholder consultation process for this project activity.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.1.4. Is the undertaken stakeholder process that was carried out described in a complete and transparent manner?	1,2 17	See E.1.1 Corrective Action Request No.15	CAR14	<input checked="" type="checkbox"/>
E.2. Summary of the comments received				
E.2.1. Is a summary of the received stakeholder comments provided?	1,2 17	Yes, E.2 of the PDD gives a summary of stakeholder comments received from the questionnaires.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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E.3. Report on how due account was taken of any comments received				
E.3.1. Has due account been taken of any stakeholder comments received?	1,2 17	The overall comments with regards to the project were positive. Clarification Request No. 5. Negative comments received from the stakeholders should be identified and summarized. How due account was taken should be indicated in the PDD.	CR5	<input checked="" type="checkbox"/>
F. Annexes 1 - 4				
F.1. Annex 1: Contact Information				
F.1.1. Is the information provided consistent with the one given under section A.3?	1,2	Yes, the provided information is consistent with the one given under section A.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.2. Is the information on all private participants and directly involved Parties presented?	1,2	Yes, the project participants are: Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co.,Ltd., and Mitsubishi Corporation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.2. Annex 2: Information regarding public funding				
F.2.1. Is the information provided on the inclusion of public funding (if any) in consistency with the actual situation presented by the project participants?	1,2	Yes. There is no public funding; all costs are covered by bank loans and private equity.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.2.2. If necessary: Is an affirmation available that any such funding from Annex-I-countries does not result in a diversion of ODA?	1,2	Not applicable.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.3. Annex 3: Baseline information				
F.3.1. If additional background information on baseline data is provided: Is this information consistent with data presented by other sections	1,2	The Build Margin emission factor (BM) of the South China Grid indicated in Annex 3 is not consistent with the data indicated in chapter B.6.1	CR3	<input checked="" type="checkbox"/>

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of the PDD?		See B.6.1.2 Clarification Request No. 3		
F.3.2. Is the data provided verifiable? Has sufficient evidence been provided to the validation team?	1,2	See Clarification Request No. 3	CR3	<input checked="" type="checkbox"/>
F.3.3. Does the additional information substantiate / support statements given in other sections of the PDD?	1,2	See Clarification Request No. 3	CR3	<input checked="" type="checkbox"/>
F.4. Annex 4: Monitoring information				
F.4.1. If additional background information on monitoring is provided: Is this information consistent with data presented in other sections of the PDD?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.4.2. Is the information provided verifiable? Has sufficient evidence been provided to the validation team?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.4.3. Do the additional information and / or documented procedures substantiate / support statements given in other sections of the PDD?		N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Table 2 Resolution of Corrective Action and Clarification Requests

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
<u>Corrective Action Request No.1</u> No Chinese should be used in the maps.	A.4.1.1	The Chinese maps were taken place by English maps.	<input checked="" type="checkbox"/> The map has been revised.
<u>Corrective Action Request No.2</u> According to the SSC PDD guidelines, this section should include the statement of how environmentally safe the project is.	A.4.2.5	DOE: A description of how environmentally safe and sound technology is being applied by the project activity should be included in this section of the PDD. PP: Environmental safe technology The technology employed in the Project, which has been employed in worldwide, is safe on environment and will not bring negative damages to the ecosystem. Technology transfer The main equipments, such as the turbines and electricity generators, are made in the host country. No technology is transferred from other countries to this Project activity. Revised in PDD A.4.2	<input checked="" type="checkbox"/> A description regarding environmental safety of the applied technology has been added in the PDD.
<u>Corrective Action Request No.3</u> The type of the turbines and generators provided in the PDD is not in compliance with purchasing agreement and name plate. The information provided in PDD should be	A.4.2.6	The type of the turbines and generators revised to the types which are the same as the purchasing agreement and name plate.	<input checked="" type="checkbox"/> The type of the turbines and generators has been revised accordingly in A.4.2 of the PDD.

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corrected according to the purchasing agreement and name plate			
<p><u>Corrective Action Request No.4</u></p> <p>According to Guidelines for completing the simplified project design document (Version 05) the 2nd column head should be corrected as “Estimation of annual emission reductions in tonnes of CO₂ e”</p>	A.4.3.1	The 2 nd column head has been revised to “Estimation of annual emission reductions in tonnes of CO ₂ e”	<p style="text-align: right;"><input checked="" type="checkbox"/></p> <p>The column head has been revised.</p>
<p><u>Corrective Action Request No.5</u></p> <p>The latest version of “Tool to Calculate the Emission Factor for an Electricity System” is V01.1; please revise in the PDD accordingly</p>	B.1.1.2	The version of “Tool to Calculate the Emission Factor for an Electricity System” was revised to 1.1.	<p style="text-align: right;"><input checked="" type="checkbox"/></p> <p>The version of “Tool to Calculate the Emission Factor for an Electricity System” has been revised.</p>
<p><u>Corrective Action Request No.6</u></p> <p>No baseline scenario alternatives should be discussed by the PDD.</p>	B.4.1	The B.4 has been revised following the guidelines	<p style="text-align: right;"><input checked="" type="checkbox"/></p> <p>Baseline scenario discussion has been revised in B.4.1 of the PDD.</p>
<p><u>Corrective Action Request No.7</u></p> <p>1. Project participants are requested to provide in section B.5 a timetable for the implementation of the project activity. This timetable should clearly indicate the starting date of construction and operation, the date of the preliminary design, the date when the investment decision was made, and the date when CDM was seriously considered, with description of the support evidences.</p> <p>2. The English version of meeting minutes which is partially inconsistent with original file should be corrected.</p>	B.5.1.4	<p>PP:</p> <ol style="list-style-type: none"> 1. The time table was added in the PDD B.5. 2. Please refer to the revised PDD for details. The translation of meeting minutes was corrected. The new version of meeting minutes is attached in the email. <p>DOE:</p> <p>Please provide the timetable in table form rather than text description.</p> <p>PP:</p> <p>The time table was added before the text description.</p> <p>DOE:</p>	<p style="text-align: right;"><input checked="" type="checkbox"/></p> <p>A time table has been added to B.5 of the PDD. Relevant evidences have been submitted to DOE.</p>

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		<ol style="list-style-type: none"> 1. The timeline should include, where applicable, the date when the investment decision was made, the date when commissioning started and the date of start-up (e.g. the date when commercial production started). 2. In addition to project implementation, events and actions which have been taken to achieve CDM registration should be also included in the timeline, esp. the continuing and real actions to secure CDM status, <i>inter alia</i>, ERPA, contracts with CDM developer, agreements with DOE etc. <p>PP: Revised in the beginning of PDD B.5.</p> <p>DOE:</p> <ol style="list-style-type: none"> 1. According to the evidence submitted by PP, the date of PDR completion is June 2004. Please revise the date in Table B-2. 2. Please deliver relevant pages of the IAR which justify the prior consideration of the CDM. 3. Please include the date of Lol in Table B-2. 4. Please include the date when commissioning started in Table B-2 and submit relevant evidence to DOE. 5. The contract with DOE for validation services was signed in April 2008; please clarify why the date of GSP-PDD submission indicated in the PDD is November 2007. <p>PP:</p> <ol style="list-style-type: none"> 1. The date of PDR completion was revised to June 2004. 2. The related page of IAR was attached in the email. 	
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		<ol style="list-style-type: none"> 3. The date of Lol was added in Table B-2. 4. The commissioning data was added in the PDD table B-2 and the related evidence was attached in the email. 5. The date of starting GSP was revised in the PDD. 	
<p><u>Corrective Action Request No.8</u></p> <ol style="list-style-type: none"> 1. No Chinese should be used in IRR Excel sheet. 2. The reason for choosing $\pm 10\%$ variation in the critical assumption for sensitivity analysis should be explained in the PDD. 3. Each of the four parameters for sensitivity analysis should be discussed in depth respectively. 4. The full scale of Y-axis of Figure B-1 should be consistent with the text analysis <i>i.e.</i> 10% 5. The footnote of the data source indicated that the Preliminary Design Report was approved by Guizhou DRC. However the approver should be Yunnan Xundian Development and Plan Bureau. 6. Please present the calculation process for the sensitivity analysis data in Table B-4 of the PDD. 	B.5.18	<ol style="list-style-type: none"> 1. All Chinese characters have been removed from the IRR Excel sheet. 2. The vary ranges (-10%~+10%) of these parameters are selected from PDR. (Revised in PDD B.5) The range of variation in the PDD is the same as PDR. 3. The four parameters have been analyzed in the PDD. (revised under Figure B-1) 4. Figure B-1 has been fixed. 5. The footnote of the data source of PDR has been corrected to "Xundian Hui and Yi Autonomous County Develop and Planning Bureau, 12 December 2004, Document [2004] Num.45". 6. It is showed in the IRR calculation sheet. When the four parameters Total Investment for Capital Assets (C3), Annual O&M cost (D3), Annual Electricity Output (E3) and Feed-in-Tariff (F3) in "Project IRR & Sensitivity Analysis" changes in $\pm 10\%$, the IRR of the project changes at the same time. 	<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p>Section B.5 of the PDD and IRR spreadsheet have been revised accordingly.</p>
<p><u>Corrective Action Request No.9</u></p> <ol style="list-style-type: none"> 1. The following parameters are missing and 	B.6.2.1	<p>PP:</p> <ol style="list-style-type: none"> 1. Electricity imports and CO₂ emission coefficient of 	<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p>Missing parameters haven</p>

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<p>have to be included in B.6.2 of the PDD:</p> <ol style="list-style-type: none"> 1) Electricity imports (from other electricity grids to the south China Power grid) 2) CO₂ emission coefficient of fuels used in connected grids (import source) <p>2. The abbreviation of the parameters of “The installed capacity of different types of power in recent years” and “The highest efficiency of electricity supply” should be applied.</p>		<p>fuels used in connected grids, the five tables have been added in PDD B.6.2</p> <p>2.The titles of “The installed capacity of different types of power in recent years” (CAP_{type}) and “Average net energy conversion efficiency of commercially available best practise power unit” ($\eta_{m,y}$) were revised in PDD B.6.2.</p> <p>DOE:</p> <ol style="list-style-type: none"> 1. The abbreviation of the parameters “Electricity imports” and “CO2 emission coefficient of fuels used in connected grids” should be applied. 2. OM,BM and CM factors do not need to be included, as they are the results of calculation <p>PP:</p> <ol style="list-style-type: none"> 1. The abbreviation of the parameter “Electricity imports” is EI_y, and “CO2 emission coefficient of fuels used in connected grids” is $\eta_{\text{connected grid}}$ 2. OM, BM and CM factors were removed from the PDD B.6.2. 	<p>been included in B6.2 of the PDD. Abbreviation of the parameters haven been applied.</p>
<p><u>Corrective Action Request No.10</u></p> <p>Regarding the parameter “fuel consumption of each power source” the title and value applied have to be revised according to the “Tool to calculate the emission factor for an electricity system (version 01.1)”.</p>	<p>B.6.2.6</p>	<p>PP:</p> <p>Revised the parameter to FC_{i,j,y} in PDD B.6.2.</p> <p>DOE:</p> <p>The value applied for fuel consumption indicated in the PDD is “electricity generation”, please revise according to the methodology.</p> <p>PP:</p> <p>The “Value applied” was revised in “FC_{i,j,y}” table of B.6.2.</p>	<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p>Title and relevant description of the parameter FC_{i,j,y} has been revised.</p>

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<p><u>Corrective Action Request No.11</u> Regarding the parameter “electricity generation of each power source” the title and description have to be revised as according to “Tool to calculate the emission factor for an electricity system (version 01.1)”.</p>	B.6.2.8	Revised the parameter to $EG_{j,y}$ in PDD B.6.2.	<input checked="" type="checkbox"/> The parameter $EG_{j,y}$ has been revised in B.6.2 of the PDD.
<p><u>Corrective Action Request No.12</u> Please provide date of completion of the application of the methodology to the project activity in DD/MM/YYYY</p>	B.8.1.2	Revised in PDD B.8.1.	<input checked="" type="checkbox"/> The format of date has been revised accordingly.
<p><u>Corrective Action Request No.13</u> It should be indicated whether these persons are also considered project participants.</p>	B.8.1.5	The persons above are not the project participants. Revised in the B.8.1	<input checked="" type="checkbox"/> Information regarding project participants has been supplemented in B.8 of the PDD.
<p><u>Corrective Action Request No.14</u> Project participants are requested to mention the date in the PDD when the EIA has been approved.</p>	D.1.1	Environmental Protection Bureau approved the EIA report on November 16 th , 2004 Revised in the PDD D.1.1.	<input checked="" type="checkbox"/> The EIA approval date has been added in D1.1 of the PDD.
<p><u>Corrective Action Request No.15</u> The date on which the survey conducted and the copies of questionnaires should be indicated in the PDD.</p>	E.1.1	55 stakeholders were invited to the Jinfeng’s office on 22 June 2008 by the Project owner. Revised in the PDD E.1.1	<input checked="" type="checkbox"/> The statement has been added in E.1 of the PDD.
<p><u>Clarification Request No. 1</u> 1. The following parameters indicated in the PDD are not consistent with those in the claimed data source Preliminary Design Report: 1) Feed-in-Tariff excluding VAT 2) Income Tax</p>	B.5.18	<p>PP: 1. 1) Feed-in-Tariff excluding VAT is 0.18RMB/kWh 2) Income Tax is 33% 3) O&M Cost is 184×10^4RMB Revised in the PDD Table B-2.</p> <p>2. The parameters (Income Tax, Average personal</p>	<input checked="" type="checkbox"/> Relevant parameters in the PDD and IRR spreadsheet have been revised to be in line with that in the PDR.

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<p>3) O & M Cost</p> <p>2. The following data used for IRR calculation in Excel sheet are not consistent with those in the claimed data source Preliminary Design Report:</p> <ol style="list-style-type: none"> 1) Income Tax 2) Average personal Pay 3) Running Expenses & Cost (O & M Cost) 4) Fixed investment 5) Construction period 6) Floating capital 		<p>Pay, Running Expenses & Cost, Fixed investment, construction period and floating capital) have been revised to the values in the PDR.</p> <p>Revised in the IRR calculation spreadsheet.</p> <p>DOE: The following data used in IRR calculation sheet are not consistent with PDR, please clarify:</p> <ol style="list-style-type: none"> 1. Floating capital 2. Depreciation expenses 3. Repair expenses 4. Materials expenses 5. Reservoir maintenance expenses 6. Financial interests 7. O&M Cost 8. Sales taxes and others 9. Income Tax <p>PP: The parameters were revised following the auditor's comment in the IRR spreadsheet. Revised in IRR spreadsheet.</p> <p>DOE: Calculation of "fixed assets cost" in the spreadsheet is incorrect, please revise.</p> <p>PP: Revised in IRR calculation.</p>	
<p>Clarification Request No. 2</p> <p>1. Please clarify why there are different IRR</p>	<p>B.5.18</p>	<p>PP:</p> <p>1. The mistake has been corrected in the IRR spread-</p>	<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p>Relevant part in the spread-</p>

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<p>results when feed-in-tariff and electricity output have the same variations (Table B-4, Figure B-1 of the PDD).</p> <p>2. Evidences for the benchmark and feed-in-tariff should be submitted to DOE.</p>		<p>sheet.</p> <p>2. Please refer to the related evidence in the email.</p> <p>DOE: Evidence for feed-in-tariff has not been submitted.</p> <p>PP: The Evidence was attached in the email. (Evidence for Tariff)</p>	<p>sheet has been revised. Evidences of the benchmark and tariff have been submitted to DOE.</p>
<p>Clarification Request No. 3</p> <p>1. Page 12 of the PDD, please clarify what the first paragraph under point no.1 of section B.6.1 accounts for.</p> <p>2. Page 14 of the PDD, Please justify the selection of sample group in the build margin.</p>	<p>B.6.1.2</p>	<p>PP:</p> <p>1. The following is the process of calculating the baseline CO₂ emission of the grid, according to the steps provided by the approved tool - <i>Tool to Calculate the Emission Factor for an Electricity System</i>. Revised in the PDD B.6.1 Point No.1</p> <p>2. According to the China Electric Power Yearbook, it has just offered the power plants capacity additions in the electricity system that comprises 20% of the system generation.</p> <p>DOE: The selection of sample group in the build margin (P14 paragraph 3 to 4) has not been adequately justified.</p> <p>PP: The related part was removed from the PDD. Revised in the Step 4, B.6.1 of the PDD.</p>	<p><input checked="" type="checkbox"/></p> <p>Relevant parts in the PDD have been revised accordingly.</p>
<p>Clarification Request No. 4</p> <p>The starting date of the project activity indicated in the PDD (08/05/2005) is not consis-</p>	<p>C.1.1</p>	<p>The starting date indicated in the PDD is a typo mistake, which has been revised to 30 December 2005.</p>	<p><input checked="" type="checkbox"/></p> <p>The starting date of the project activity has been revised</p>

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tent with the evidences provided to DOE.			accordingly, which is the early date of project implementation or construction or real action.
<p>Clarification Request No. 5</p> <p>Negative comments received from the stakeholders should be identified and summarized. How due account was taken should be indicated in the PDD.</p>	E.3.1	<p>PP:</p> <p>According to the comments made by the local people, the project owners will take major measures as follows:</p> <ol style="list-style-type: none"> (1) During construction, reasonably arrange transport vehicles so as to reduce the negative impact on the daily life of local residents. (2) Minimize the excavated surface during construction and make use of mining materials rationally. Try best to balance digging and filling so as to reduce soil erosion; (3) Restore the land and vegetation destroyed during construction so as to minimize the negative impact on the surrounding environment. <p>DOE:</p> <p>Negative comments received from the stakeholders should be identified and summarized in the PDD.</p> <p>PP:</p> <p>Negative comments received from the stakeholders:</p> <ol style="list-style-type: none"> (1) Do not make much noise at night. (2) Avoid soil erosion. (3) Do not destroy the grasses and trees. 	<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p>Negative comments received have been summarized in the Section E2 of the PDD and how due account was taken have been indicated in the Section E3 of the PDD.</p>

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Table 3 Unresolved Corrective Action and Clarification Requests (in case of denials)


Clarifications and / or corrective action requests by validation team	Id. of CAR/CR	Explanation of Conclusion for Denial
-	-	-

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Annex 2: Information Reference List

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Ref. No.	Issuance and/or submission date(dd/mm/yyyy)	Title/Type of Document	Author/Editor/ Issuer	Additional Information (Relevance in CDM Context)
1.	25/12/2007	PDD “Xundian Jinfeng 12.6 MW Small Hydropower Project in Yunnan Province”, Version 1.0	Beijing Ruichi Electric Power Information Technology Co. Ltd	PDD for GSP
2.	14/12/2007	Approved small-scale methodology “Indicative simplified baseline and monitoring methodology for Grid connected renewable electricity generation”, AMS-I.D. , Version 13	UNFCCC	
3.	19/10/2007	Tool to Calculate the Emission Factor for an Electricity System, Version 01	UNFCCC	
4.	30/09/2005	Attachment A to Appendix B of the Simplified Modalities and Procedures for Small-scale CDM Project Activities, Version 06	UNFCCC	
5.	25/06/2008	Participant list of on-site interviews	TÜV SÜD	
6.	25/06/2008	On-site interviews conducted by TÜV SÜD. Validation Team: Li Ruifeng Jiangsu TÜV Product Service, Beijing Branch Chen Xiaoying Jiangsu TÜV Product Service, Beijing Branch Huang Qin Jiangsu TÜV Product Service, Beijing Branch Interviewed Persions: Li Wenzhong Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd. Yu Tao Yunnan Ruihenglianhe Energy Developing Co., Ltd. Chen Yifei Beijing Ruichi Electric Power Information Technology Co., Ltd. Wang Yunyi Mitsubishi Corporation (Shanghai) Ltd	TÜV SÜD	
7.	06/2004	Preliminary Design Report “Xundian Jinfeng 12.6 MW Small Hydropower Plant”	Yunnan Difang Electric Power Technology	Data source of IRR input data

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Ref. No.	Issuance and/or submission date(dd/mm/yyyy)	Title/Type of Document	Author/Editor/ Issuer	Additional Information (Relevance in CDM Context)
			Development Co., Ltd	
8.	12/12/2004	Approval of Preliminary Design Report "Xundian Jinfeng 12.6 MW Small Hydropower Plant"	Yunnan Xundian Development and Plan Bureau	
9.	28/09/2005	Board Decision of CDM implementation	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd.	CDM considering evidence
10.	Oct 2004	Environmental Impact Assessment Report "Xundian Jinfeng 12.6 MW Small Hydropower Project"	Yunnan University	
11.	16/11/2004	Approval of Environmental Impact Assessment Report "Xundian Jinfeng 12.6 MW Small Hydropower Project"	Kunming Environmental Protection Bureau	
12.	20/06/2007	Contract Termination (first CDM consultation contract)	Yunnan Ruihenglianhe Energy Development Co., Ltd and Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd	CDM considering evidence
13.	15/08/2006	Approval of Grid Connection "Xundian Jinfeng 12.6 MW Small Hydropower Plant"	Yunnan Electric Power Company	
14.	22/09/2006	Turbine and Electric Generating Unit Purchasing Agreement	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co.,Ltd., and Sichuan Dongfeng Electric Machinery	Cross-check evidence of total static investment

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			Co., Ltd and Sichuan Dongfeng Mechanical Electricity Engineering Technology United Co., Ltd	
15.	09/01/2006	Notice of Start-up of Construction of "Xundian Jinfeng 12.6 MW Small Hydropower Plant"	Xundian Water Authority	
16.	10/12/1006	Training plan and management standard	Jinfeng Hydropower Plant	
17.	23/06/2008	Questionnaires of Stakeholders	Jinfeng Hydropower Plant	
18.	23/08/2005	Business license "Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co.,Ltd."	Kunming City Xundian County Administration for Industry & Commerce	
19.	29/06/2005	Denial of loan application	China Merchants Bank Kunming Jinxing Branch	
20.	08/12/2005	CDM Consultation Contract (first)	Yunnan Ruihenglianhe Energy Development Co., Ltd and Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd	CDM considering evidence
21.	12/07/2007	CDM Consultation Contract (second)	Beijing Ruichi Electric Power Information Technology Co. Ltd	CDM considering evidence

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Ref. No.	Issuance and/or submission date(dd/mm/yyyy)	Title/Type of Document	Author/Editor/ Issuer	Additional Information (Relevance in CDM Context)
			and Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd	
22.	03/12/2007	Letter of Intent from CDM buyer	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd and Mitsubishi Corporation.	CDM considering evidence
23.	30/12/2008	Notice of start of Commercial Operation	Xundian Electric Power Company	
24.	09/08/2007	Baseline Emission Factors for Regional Power Grids in China http://cdm.ccchina.gov.cn/WebSite/CDM/UpFile/File1364.pdf	NDRC	Cross-check evidence of EF & Grid definition
25.	01/07/1995	SL16-95 Economic Evaluation Code for Small Hydropower Projects	The Ministry of Water Resources of the People's Republic of China	Benchmark evidence
26.	30/08/2005	Notice of Electricity Tariff for Yunnan Grid	Yunnan NDRC	Cross-check evidence of tariff
27.	13/12/1993	Provisional Regulations of the People's Republic of China on Enterprise Income Tax	State Council of the People's Republic of China	Cross-check evidence of income tax
28.	29/03/1994	Circular of the Ministry of Finance and the State Administration of Taxation on Adjusting VAT Rates for Agricultural Products and Exempting Some Items from VAT Taxation	Ministry of Finance and State Administration of Taxation of the People's Republic of	Cross-check evidence of value-added tax

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Ref. No.	Issuance and/or submission date(dd/mm/yyyy)	Title/Type of Document	Author/Editor/ Issuer	Additional Information (Relevance in CDM Context)
			China	
29.	18/11/2005	Loan Agreement	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd	
30.	30/12/2005	Jinfeng Hydropower Station Construction Contract	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd. and Yunnan Small-scale Hydropower Construction Engineering Company	Cross-check evidence of total static investment Project start date
31.	15/12/2008	Jinfeng Hydropower Station O&M Contract	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd. and Yunnan Gejiu Lvshui River Electric Power Industrial Co., Ltd.	Cross-check evidence of O&M cost
32.	28/12/2008	Power Purchase Agreement	Xundian Grid Company and Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd.	Cross-check evidence of tariff and annual output
33.	03/04/2008	CDM Validation Contract	TÜV SÜD and Mitsubishi	CDM considering evidence

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Ref. No.	Issuance and/or submission date(dd/mm/yyyy)	Title/Type of Document	Author/Editor/ Issuer	Additional Information (Relevance in CDM Context)
			Corporation.	
34.	04/2008	LOA from Chinese DNA	National Development and Reform Commission of the People's Republic of China	CDM considering evidence
35.	04/09/2008	LOA from Japanese DNA	Minister of Economy, Trade and Industry of Japan	CDM considering evidence
36.	01/10/2008	MoC of Jinfeng Project	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd and Mitsubishi Corporation.	CDM considering evidence (old template)
37.	09/09/2006	Bulletin of Valid Hydropower Technical Standards http://www.mwr.gov.cn/tzgg/qt/20060926000000479251.aspx	Ministry of Water Resources of the People's Republic of China	Benchmark evidence
38.	07/05/2009	Statement on Preliminary Design Report	Yunnan Difang Electric Power Technology Development Co., Ltd.	Financial analysis
39.	15/04/2002	Forbidding Construction of Fossil Fuel Fired Power Plants of or under 135 MW (http://www.gov.cn/gongbao/content/2002/content_61480.htm).	State Council of People's Republic of China	Cross-check evidence of baseline scenario identification
40.	N/A	Investment analysis calculation spreadsheets	Beijing Ruichi Electric Power Information	Financial analysis

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			Technology Co. Ltd	
41.	01/05/1994	Hydroenergy Design Code for Small Hydropower Projects (SL76-94)	The Ministry of Water Resources of the People's Republic of China	Cross-check evidence of power output
42.	08/09/2006	Sample of Work Contract Letter	Yunnan Ruihenglianhe Energy Development Co., Ltd and Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd	CDM considering evidence
43.	26/02/2007	Meeting Minute with first consultant	Yunnan Ruihenglianhe Energy Development Co., Ltd and Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd	CDM considering evidence
44.	20/11/2008	Final According Report	Yunnan Small-scale Hydropower Construction Engineering Company(Construction company) Xundian Hui and Dai Autonomous County Water Resources Bureau(Supervision	Cross-check evidence of total static investment

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Ref. No.	Issuance and/or submission date(dd/mm/yyyy)	Title/Type of Document	Author/Editor/ Issuer	Additional Information (Relevance in CDM Context)
			organization)	
45.	01/2009-07/2009	Power Generation Records	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd	Cross-check evidence of power output
46.	03/08/2009	Power Sales Invoice	Xundian Power Grid Company	Cross-check evidence of tariff
47.	31/08/2009	MoC of Jinfeng Project	Yunnan Xudong Phosphate Chemical Group Jinfeng Power Generation Co., Ltd and Mitsubishi Corporation.	CDM considering evidence (new template)
48.	17/08/2009	PDD "Xundian Jinfeng 12.6 MW Small Hydropower Project in Yunnan Province", Version 2.1	Bejing Ruichi Electric Power Information Technology Co. Ltd	Final PDD