



# ANNEX 3

## ASSESSMENT

REGARDING POST REGISTRATION CHANGES  
YUNNAN HONGTA DIANXI CEMENT CO., LTD.

YUNNAN HONGTA CEMENT WASTE HEAT  
RECOVERY POWER GENERATION PROJECT

**Report No: 8000404662 – 11/591**

**Date: 2012-10-25**

TÜV NORD CERT GmbH  
JI/CDM Certification Program  
Langemarckstraße, 20  
45141 Essen, Germany  
Phone: +49-201-825-3335  
Fax: +49-201-825-3290  
[www.tuev-nord.de](http://www.tuev-nord.de)  
[www.global-warming.de](http://www.global-warming.de)

<b>Assessment Report</b> on post registration changes	<b>Report No.</b>	<b>Rev. No.</b>	<b>Date of 1<sup>st</sup> issue:</b>	<b>Date of this rev.</b>
	8000404662 – 11/591	1	2012-10-25	2012-10-25
<b>Project:</b>	<b>Title:</b>	<b>Registr. date:</b>	<b>UNFCCC-No.:</b>	
	Yunnan Hongta Cement Waste Heat Recovery Power Generation Project	2010-10-08	3674	
<b>Project Participant(s):</b>	<b>Name:</b>	<b>Party:</b>		
	Yunnan Hongta Dianxi Cement Co., Ltd. British Gas Trading Limited	China United Kingdom of Great Britain and Northern Ireland		
<b>Applied methodology/ies:</b>	<b>Title:</b>	<b>No.:</b>	<b>Scope:</b>	
	"Waste Energy Recovery (gas/heat/pressure) Projects"	AMS-III.Q ver. 02	04/ 1.1, 4.5	
<b>Post Registration Changes:</b>	<b>Type of requested changes</b>	<b>Number of changes</b>	<b>Prior Approval required</b>	
	<input type="checkbox"/> Temporary deviations from the MP	-	<input type="checkbox"/>	
	<input type="checkbox"/> Temporary deviations from the MM	-	<input type="checkbox"/>	
	<input type="checkbox"/> Corrections that do not affect the project	-	<input type="checkbox"/>	
	<input type="checkbox"/> Change to the start date of the crediting p.	-	<input type="checkbox"/>	
	<input checked="" type="checkbox"/> Permanent changes from the MP	5	<input type="checkbox"/>	
	<input type="checkbox"/> Permanent changes from the MM	-	<input type="checkbox"/>	
	<input type="checkbox"/> Design changes to the project activity/PoA	-	<input type="checkbox"/>	
<b>Revised PDD:</b>	<b>Title:</b>	<b>Attached in TC:</b>	<b>Attached clean:</b>	
	Yunnan Hongta Cement Waste Heat Recovery Power Generation Project	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Assessment team / Technical Review and Final Approval</b>	<b>Assessment Team:</b>	<b>Technical review:</b>	<b>Final approval:</b>	
	Mr. Li Yongjun (TL) Ms. Li Xuemei (TM) Mr. Wu Jianmin (TE)	Rainer Winter, Büsrar Grünen- wald	Stefan Winter	
<b>Assessment Opinion:</b>	<input type="checkbox"/> The post registration changes require prior Approval by the Board			
	<input checked="" type="checkbox"/> The post registration changes do <b>not</b> require prior Approval by the Board			
<b>Document information:</b>	<b>Filename:</b>			<b>No. of pages:</b>
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## Abbreviations

<b>CA</b>	Corrective Action / Clarification Action
<b>CAR</b>	Corrective Action Request
<b>CDM</b>	Clean Development Mechanism
<b>CER</b>	Certified Emission Reduction
<b>CL</b>	Clarification Request
<b>CO<sub>2</sub></b>	Carbon dioxide
<b>CO<sub>2e</sub></b>	Carbon dioxide equivalent
<b>CP</b>	Certification Program
<b>DNA</b>	Designated National Authority
<b>EB</b>	CDM Executive Board
<b>GHG</b>	Greenhouse gas(es)
<b>PA</b>	Project activity
<b>PDD</b>	Project Design Document
<b>PoA</b>	Programme of Activities
<b>PRC</b>	Post Registration Changes
<b>QC/QA</b>	Quality control/Quality assurance
<b>UNFCCC</b>	United Nations Framework Convention on Climate Change
<b>VVS</b>	Validation and Verification Standard
<b>XLS</b>	Emission Reduction Calculation Spread Sheet

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## 1 OBJECTIVE / SCOPE

Yunnan Hongta Dianxi Cement Co., Ltd. has commissioned the TÜV NORD JI/CDM Certification Program (CP) to assess post registration changes of the project

*Yunnan Hongta Cement Waste Heat Recovery Power Generation Project.*

This report serves for all kind of post registration changes as defined in the PS.

In this case it serves as an annex to the verification report.

## 2 GENERAL CHARACTERISTICS

### 2.1 Project Characteristics

As this assessment was carried out as part of the 1<sup>st</sup> verification of the project activity please refer to chapter 2 of the verification report.

### 2.2 Overview of Post Registration Changes

Within this report post registration changes as listed in Table 2-2 are assessed.

**Table 2-2:** Overview Post Registration Changes

#	Applicable as of	Type of post registration change <sup>1)</sup>	Description
1	2009-09-17	PCfrMP	<ol style="list-style-type: none"> <li>The description of meter M4 was changed in that case that M4 is the main meter.</li> <li>M3 measuring <math>Q_{OE,y}</math> and <math>EG_y</math> in the registered PDD was changed in that case that M1 measures <math>Q_{OE,y}</math>. <math>EG_y</math> is furthermore no monitoring parameter and was therefore deleted in the description.</li> <li>The description that M1 measures the total electricity generation (<math>EG_{total,y}/Q_{OE,BL}</math>) in the registered PDD was corrected to be that M1 measures the total electricity quantity generated by the project in year y (<math>EG_{total,y}</math>) and the actual annual electricity generation by the project activity in year y (<math>Q_{OE,y}</math>).</li> <li>The name of <math>EG_{pj \text{ to grid},y}</math> changed from “net electricity quantity generated by the project” in the registered PDD to “net electricity supplied to the cement production line connected to the grid”.</li> <li>The wiring diagram is changed. The location of meter M3 and M4 changed from the grid connection line to a point before the grid connection. The location of backup meter M3 (B) changed from parallel circuit with meter M3 in the registered PDD to serial circuit.</li> </ol>

<sup>1)</sup> PCfrMP : Permanent changes from registered Monitoring Plan

## 2.3 Assessment team members and technical reviewers

As this assessment was carried out as part of the 1<sup>st</sup> verification of the project activity please refer to the main part of the verification report.

## 2.4 Assessment Steps

The *assessment of post registration changes* consisted of the following steps:

- Appointment of team members and technical reviewers
- A desk review of the registered and revised PDD<sup>/PDD/</sup> submitted by the client and additional supporting documents
- On-Site assessment (if required)
- Background investigation and follow-up interviews with personnel of the project developer and its contractors,
- Resolution of corrective actions (CARs / CLs) (if any)
- Final reporting
- Technical review
- Final approval.

In this case all activities were carried out as part of the 1<sup>st</sup> verification of this project activity.

## 2.5 Review of Documents

The registered as well as the revised PDD and supporting background documents related to the project design and the post registration changes were reviewed.

As far as required the assessment team used additional documentation by third parties like host party legislation, technical reports referring to the project design or to the basic conditions and technical data.

## 2.6 Follow-up Interviews

The validation team has carried out interviews in order to assess the information included in the project documentation and to gain additional information regarding the compliance of the project with the relevant criteria applicable for CDM.

During validation the validation team has performed interviews to confirm selected information and to resolve issues identified in the document review. The main topics of the interviews are summarized in table 2-4.

**Table 2-4:** Interviewed persons and interview topics

Interviewed Persons / Entities	Interview topics
Project proponent representatives Project consultant	<ul style="list-style-type: none"> <li>- Details of the project validation and earlier verifications</li> <li>- Project history</li> <li>- Technical details of plant</li> <li>- Intended / implemented changes from the previous project design</li> <li>- Impact of changes on the additionality justification</li> <li>- Impact on the monitoring of the project</li> <li>- Editorial issues of the revised PDD</li> </ul>

A comprehensive list of all interviewed persons is part of section 7 'References'.

## 2.7 Resolution of Clarification and Corrective Action Requests

### 2.7.1 Definition

A **Corrective Action Request (CAR)** will be established where:

- mistakes have been made in assumptions, application of the methodology or the project documentation which will have a direct influence the project results,
- the requirements deemed relevant for validation of the intended / implemented changes,
- there is a risk that the changes cannot be approved by the UNFCCC or that emission reductions would not be able to be verified and certified after the implementation of the changes.

A **Clarification Request (CL)** will be issued where information is insufficient, unclear or not transparent enough to establish whether a requirement is met.

### 2.7.2 Assessment

After reviewing all relevant documents and taken all other relevant information into account, the assessment team issues all findings (in the course of a draft report, if applicable) and hands over the findings to the project proponent in order to respond on the issues raised and to revise the documentation accordingly.

The final reporting step starts after resolution of the raised CARs and CLs. In case the findings from CARs and CLs cannot be resolved by the project proponent or the proposed action related to the FARs raised cannot be assessed as adequate, no positive assessment opinion can be issued by the validation team.



The CAR(s) / CL(s) / FAR(s) are documented in the context of the respective chapters.

## **2.8 Technical review**

Before submission of the final assessment report a technical review is carried out. The technical reviewer is a competent GHG auditor being appointed for the scope this project falls under. The technical reviewer is not considered to be part of the verification team and thus not involved in the decision making process up to the technical review.

As a result of the technical review process the assessment opinion as prepared by the validation team leader may be confirmed or revised. Furthermore reporting improvements might be achieved.

## **2.9 Final approval**

After successful technical review of the final report an overall (esp. procedural) assessment of the requested post registration changes will be carried out by a senior assessor located in the accredited premises of TÜV NORD.

Only after this step the notification or the report can be forwarded to the UNFCCC (in case of a positive validation opinion).

### 3 CHANGES THAT DO NOT AFFECT THE PROJECT DESIGN

#### 3.1 Assessment of Changes

##### Requested Deviations / Changes #1

- Type of change(s):
- ☐ Temporary Deviation from Monitoring Plan
  - ☐ Temporary Deviation from Monitoring Methodology
  - ☐ Corrections that do not affect the project design
  - ☒ Permanent Change from Monitoring Plan
  - ☐ Permanent Change from Monitoring Methodology
  - ☐ Changes specific to afforestation or reforestation

##### A. Description of post registration change

<b>Start Date:</b> Please provide the start date of the change	2009-09-17	<b>End Date:</b> Please provide the end date of the change, if applicable	N/A
<b>Description:</b> Please give a detailed description of the changes	<ol style="list-style-type: none"> <li>1. The description that M4, installed at the grid and managed by the Electric Power bureau in the registered PDD, was changed to be that M4 is now the main meter. It is still managed by the Electric Power Bureau and will measure the net electricity supplied to the cement production line connected to the grid (<math>EG_{pj \text{ to grid},y}</math>) and the electricity supplied to the project from the grid (<math>EG_{grid \text{ to pj},y}</math>). The readings of meter M4 are used for the emission reduction calculation of the project activity.</li> <li>2. The description that M3 is the main meter and measures the net electricity supplied to the grid (<math>EG_v/Q_{OE,y}</math>) in the registered PDD is changed to be that M3 will now be used to crosscheck the readings of main meter M4. The bidirectional electricity meter M3 will measure also the net electricity supplied to the cement production line connected to the grid (<math>EG_{pj \text{ to grid},y}</math>) and the electricity quantity supplied to the Project from the grid (<math>EG_{grid \text{ to pj},y}</math>). As parameter <math>EG_v</math> is no monitoring parameter and is not derived from meter readings, it is therefore deleted in the description. <math>EG_v</math> is a parameter, mentioned in the PDD, to calculate the baseline emissions.</li> <li>3. The description that M1 measures the total electricity generation (<math>EG_{total,y}/Q_{OE,BL}</math>) in the registered PDD, was changed to be that M1 now measures the total electricity quantity generated by the project in year y (<math>EG_{total,y}</math>). As all waste heat recovered by the Project is used for generating electricity, meter M1 will also measure the actual annual electricity generation by the project activity in year y</li> </ol>		

## Requested Deviations / Changes #1

	<p>(<math>Q_{OE,y}</math>).</p> <p>Parameter <math>Q_{OE,BL}</math> is a parameter that is fixed at the stage of validation, it is no monitoring parameter and is not derived from meter readings. Therefore, it is deleted in the description.</p> <p>4. The name of <math>EG_{pi\ to\ grid,y}</math> changed from “net electricity quantity generated by the project” in the registered PDD to “net electricity supplied to the cement production line connected to the grid” to avoid misunderstandings.</p> <p>5. The wiring diagram is changed. The location of meter M3 and M4 changed from the grid connection line to a point before the grid connection. The location of backup meter M3 (B) changed from parallel circuit with meter M3 in registered PDD to serial circuit.</p>
B. Assessment of post registration change – Permanent changes from MP or MM	
<p><b>MM compliance:</b></p> <p>Please check in case of changes to the registered MP, whether they are in compliance with the MM.</p>	<p>1. The corrected information of Meter M4 is more clear and accurate and reflects the actual project information as verified on-site. The meter M4 is managed by the grid company and monitors the net electricity supplied to the cement production line connected to the grid (<math>EG_{pi\ to\ grid,y}</math>) and the electricity supplied to the Project from the grid (<math>EG_{grid\ to\ pi,y}</math>). This was confirmed by checking the Power Wiring Diagram <sup>/PWD/</sup> and through on-site observation. Considering that meter M4 is managed by the grid company which is a third authority party while the meter records of meter M4 (during this MP) is lower than the on-site meter records of M3, the assumption that meter M4 is the basis for ER calculation is more conservative and reasonable.</p> <p>The revised description of M4 is in compliance with the applied Methodology AMS-III.Q and ACM0012 as confirmed by the audit team. The changes do not affect the applicability of the methodologies.</p> <p>2. The corrected information of Meter M3 is more clear and accurate and reflects the actual project information as verified on-site. Meter M3 will monitor the net electricity supplied to the cement production line connected to the grid (<math>EG_{pi\ to\ grid,y}</math>) and the electricity supplied to the Project from the grid (<math>EG_{grid\ to\ pi,y}</math>). This was confirmed by checking the Power Wiring Diagram <sup>/PWD/</sup> and through on-site observation. M3 is managed by the project owner. M3 will be used to cross-check the readings of main meter M4.</p> <p>As per the Methodology AMS-III.Q and ACM0012, the parameter <math>Q_{OE,y}</math> is defined as the annual electricity generation by the Project Activity in year y and is used to calculate <math>f_{cap}</math> (<math>f_{cap}=Q_{OE,BL}/Q_{OE,y}</math>). Thus the parameter <math>Q_{OE,y}</math> is the actual total electricity generation by the Project activity monitored by meter M1. This is in accordance with the applied methodologies.</p> <p>As per the registered PDD, <math>EG_y</math> is no monitoring parameter and is not derived from any meter readings. It has therefore correctly been deleted in the description. This is in line with the applied methodology.</p>

## Requested Deviations / Changes #1

	<p>The changes do not affect the applicability of the methodologies.</p> <p>3. The corrected information of Meter M1 is more clear and accurate and reflects the actual project information as verified on-site. M1 measuring <math>Q_{OE,y}</math> reflects the actual project situation. Meter M1 monitors the total electricity generation by the project in year y (<math>EG_{total,y}</math>) and the actual annual electricity generation by the project activity in year y (<math>Q_{OE,y}</math>). This was confirmed by checking the Power Wiring Diagram <sup>/PWD/</sup>, through on-site observation and conducting interviews with the project owner. The revision is in compliance with the Methodology AMS-III.Q and ACM0012 as confirmed by the audit team.</p> <p>As per the Methodology AMS-III.Q and ACM0012, the parameter <math>Q_{OE,BL}</math> is defined as the annual electricity generation determined on the basis of the maximum recoverable energy, which would have been released in the absence of the project. It is used to calculate <math>f_{cap}</math> (<math>f_{cap}=Q_{OE,BL}/Q_{OE,y}</math>). This parameter is fixed at the stage of validation, it is no monitoring parameter and is not derived from any meter readings. Therefore, it is correctly deleted. This is in accordance with the applied methodologies.</p> <p>The changes do not affect the applicability of the methodologies.</p> <p>4. The correction of the parameter name <math>EG_{pj\ to\ grid,y}</math>, to “net electricity supplied to the cement production line connected to the grid” is a minor correction to improve the monitoring of the project activity. The correction does not affect the applicability of the applied methodologies.</p> <p>5. The change of the meter location in the wiring diagram reflects the actual project implementation as verified on-site. This was also confirmed by checking the Power Wiring Diagram <sup>/PWD/</sup>.</p> <p>Meter M1 monitors the total electricity generation by the project in year y (<math>EG_{total,y}</math>) and the actual annual electricity generation by the project activity in year y (<math>Q_{OE,y}</math>), M2 measures the electricity consumed by the power plant. The net electricity supplied to the cement production line connected to the grid (<math>EG_{pj\ to\ grid,y}</math>) and the electricity supplied to the Project from the grid (<math>EG_{grid\ to\ pi,y}</math>) is monitored by the main meter M4, meter M3 and its back-up meter M3 (B). The electricity sent to the grid CSPG goes back to the cement plant and is used on-site only. No electricity will be sold to the grid as indicated in the Approval of Grid Connection <sup>/AGC/</sup> issued by the Power Grid Company.</p> <p>Meters M3, M3B and M4 are located on the 10kV bus bar after the branch to the auxiliary equipment. All 3 meters are in a serial circuit, where M4 is the main meter, managed by the grid company, and M3 is the cross-check meter and M3 (B) is its back-up meter, managed by the project owner.</p> <p>No equipment changes were observed resulting in no changes affecting the additionality. Furthermore, the chosen methodology remains applicable to the project.</p>
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## Requested Deviations / Changes #1

<p><b>Later version of MM:</b> Please check in cases where compliance with a later version of the MM is demonstrated that the conservativeness of the monitoring and verification is not affected.</p>	<p>The later version of AMS-III.Q “Waste Energy Recovery (gas/heat/pressure) Projects” (Version 05.0) has been checked.</p> <p>The changes in comparison to the applied version 02 are only due to definitions and additional information regarding ACM0012, which is already applied, and multiple fuel in the baseline scenario, which is not applicable and other special cases which are also not applicable to the project activity.</p> <p>Hence, it is confirmed that the revised PDD is in line with the latest version of the MM and the verification will not be negatively affected.</p>
<p><b>Accuracy:</b> Please give a detailed assessment whether the change is likely to lead to a reduction in the accuracy of the ER calculation.</p>	<p>By the means of interviewing the project owner and on-site investigation, it is confirmed that the change of main meter and further corrections do not lead to a reduction in the accuracy of the emission reduction calculation. Also, the calibration frequency and the accuracy of all the meters involved did not change. Only the final wiring diagram changed and the calculation method of <math>f_{cap}</math> was corrected due to inconsistencies in the registered PDD.</p> <p>TÜV NORD concludes that the changes have no impact on the accuracy of the metering system.</p> <p>TÜV NORD concludes that there is no negative impact on the emission reduction calculation or the accurate determination of emission reductions. In addition, the actual equations for emission reduction and corresponding procedures are sufficient.</p>
<p><b>Conservative-ness:</b> Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.</p>	<p>By on-site interviews and checking the Power Wiring Diagram <sup>/PWD/</sup> and the Approval of Grid Connection <sup>/AGC/</sup>, TÜV NORD confirms that the grid connection is determined by the grid company. The change of main meter and the resulting revisions do not impact the proposed project's implementation. As the meter readings of M4 are more conservative and the meter is managed by a third party, the assumption that meter M4 is the basis for ER calculation is reasonable.</p> <p>Hence, it is confirmed that the emission reduction determined method is in line with the actual situation of the project, thus it is confirmed that the reasonable and conservative assumptions have been applied to ensure that emission reductions will not be overestimated.</p>
<p><b>Appendix 1 PS:</b> Check if the changes fall under one of the scenarios of appendix 1 of the PS.</p>	<p>N/A</p>
<p>C. Revised PDD</p>	
<p><b>Rev. of PDD:</b> Check whether the changes have been fully addressed in a revised PDD.</p>	<p><input checked="" type="checkbox"/> The changes have correctly been reflected in the revised PDD.</p> <p><input type="checkbox"/> A revision of the PDD is not required (in case of temp. changes).</p> <p><input checked="" type="checkbox"/> The revised PDD has been forwarded in (i) track-change and (ii) clean version.</p>
<p>D. Prior Approval</p>	

### Requested Deviations / Changes #1

<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/> The post registration change requires prior approval  <input checked="" type="checkbox"/> The post registration change does not require prior approval
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## 3.2 Related Findings

The following table(s) include all raised CARs and CLs and the assessments of the same by the assessment team.

Finding	A1	
Classification	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<ol style="list-style-type: none"> <li>The information that M1 measures <math>Q_{OE,y}</math> is inconsistent with the information as per registered monitoring plan which states that M3 will measure the net electricity supplied to the grid (<math>EG_y/Q_{OE,y}</math>). (Page 33 of the PDD). The <math>f_{cap}</math> in ER spreadsheet is calculated as <math>Q_{OE,bl}</math> divided by <math>Q_{OE,y}</math> (374 days) which is inconsistent with the information as per registered PDD.</li> <li>On page 33 of the registered PDD, it is stated that M3 measures the net electricity supplied to the Grid (<math>EG_y/Q_{OE,y}</math>) and that the net electricity generated by the project is used for cement production by being connected to the grid. Thus clarification is requested.</li> </ol>	
<b>Corrective Action #1</b> <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<ol style="list-style-type: none"> <li>Regarding the description of meter M3 and M4, corrections have been applied to the registered PDD.</li> <li>The inconsistencies have led to applied corrections to the registered PDD.</li> </ol>	



Finding	A1
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>1. As per the Methodology AMS-III.Q and ACM0012, the parameter <math>Q_{OE,y}</math> is defined as the annual electricity generation by the Project Activity in year y and used for <math>f_{cap}</math> calculation (<math>f_{cap}=Q_{OE,b}/Q_{OE,y}</math>), thus the parameter <math>Q_{OE,y}</math> is the actual total electricity generation by the Project activity. Meter M1 will monitor the total electricity generation, while the meter M3 will monitor both the net electricity supplied to the cement production line connected to the grid (<math>EG_{pj\ to\ grid,y}</math>) and the electricity supplied to the Project from the grid (<math>EG_{grid\ to\ pj,y}</math>), thus the parameter <math>Q_{OE,y}</math> will be monitored by meter M1, not meter M3.</p> <p>2. The monitoring diagram can well reflect the project description, meter M1 will monitor the total electricity generation, after deducing the electricity utilized by the WHR system (i.e power plant) which will be monitored by meter M2, the net electricity will be used for cement plant which will be monitored by main meter M4, meter M3 and the back-up meter M3 (B). The line connected the grid CSPG means these parts of net electricity will just be connected to the grid and then to the cement plant and used on-site only.</p> <p>Corrections to the registered PDD have been confirmed in the updated PDD. So the issues are closed.</p>
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed

Finding	B1
<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL
<b>Description of finding</b> <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The location of meter M3 and M3 (B) in the diagram in the monitoring report (Page 7) is different from the one in the registered PDD.
<b>Corrective Action #1</b> <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	As M3 (B) is a backup meter of meter M3 as per the registered PDD (page 33), thus the position of meter M3 (B) should be serial circuit with meter M3. The position of backup meter M3 (B) has applied Permanent changes from registered Monitoring Plan, which is a change of location of meter as per the power wiring diagram.
<b>DOE Assessment #1</b> <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	The diagram in the registered PDD was wrong. The audit team has checked it against the Power Wiring Diagram <sup>/PWD/</sup> and the Approval of Grid Connection <sup>/AGC/</sup> given as evidences. M3 (B) being the back-up meter of meter M3 is located serial circuit with meter M3 which is the real situation confirmed as per Power Wiring Diagram. Thus the diagram has been revised to reflect the real situation on-site and the revision are assessed as accurate and correct.

Finding	B1
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed



#### **4 CHANGE TO THE START DATE OF THE CREDITING PERIOD**

The post registration changes do not fall under this category.

## **5 CHANGES TO THE PROJECT / PROGRAMME DESIGN**

The post registration changes do not fall under this category.

## 6 SUMMARY OF ASSESSMENT OPINIONS

The below listed changes have occurred after the registration of the project / PoA.

Type of Change occurred	Total No. of changes	No. of changes which require prior approval
<input type="checkbox"/> Temporary deviations from the MP		
<input type="checkbox"/> Temporary deviations from the MM		
<input type="checkbox"/> Corrections that do not affect the project		
<input type="checkbox"/> Change to the start date of the crediting p.		
<input checked="" type="checkbox"/> Permanent changes from the MP	5	0
<input type="checkbox"/> Permanent changes from the MM		
<input type="checkbox"/> Design changes to the project activity / PoA		
<input type="checkbox"/> Changes specific to AR projects		

None of the changes requires prior approval of the Board.

Essen, 2012-10-25



Li, Yong Jun  
TÜV NORD JI/CDM CP  
Assessment Team Leader

Essen, 2012-10-25



Winter, Stefan  
TÜV NORD JI/CDM CP  
Final Approver

## 7 REFERENCES

All references are listed in the Verification Report to which this assessment is attached.

# APPENDIX

- A1:** Assessment of Financial Parameters
- A2:** Assessment of Barrier analysis
- A3:** Competence statements of involved personnel

## APPENDIX 1: ASSESSMENT OF FINANCIAL PARAMETERS

**Table A-1:** Assessment of Financial Parameters (VVS, v. 2.0, §§ 120, 121 / in case financial parameters stem from FSR §122)

<input checked="" type="checkbox"/>	No financial parameters are used for additionality justification					
<input type="checkbox"/>	Assessment of all financial parameters see below					
Parameter	Value applied	Unit	Source of Information (please indicate document and page)	Reference	DOE ASSESSMENT	
					Correctness of value applied	Comment
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	

## APPENDIX 2: ASSESSMENT OF BARRIER ANALYSIS

**Table A-2:** Assessment of Barrier Analysis (VVS, v. 2.0, §§ 124-127)

<input checked="" type="checkbox"/>		No barrier parameters are used for additionality justification		
<input type="checkbox"/>		Assessment of barriers see below		
Kind of Barrier (invest, tech, other)	Description of Barrier	Evidence used	Assessment of validation team	
			Appropriateness of information source	Explanation of final result
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	

**APPENDIX 3: STATEMENTS OF COMPETENCE OF INVOLVED PERSONNEL****Statement of Competence**  
Agreement and authorisation according to the provisions  
of the TÜV NORD JI/CDM Certification Program**Mr. Yongjun Li**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor	2013-09-26
Validation/Verification	Senior Assessor	2013-09-26
VCS	Senior Assessor	2013-09-26

Authorisation status for technical areas within national scopes	
CODE	TECHNICAL AREA
1.2	Renewable Energies
13.1	Waste handling and disposal

038 – Rev. 0, Date: 2011-04-12

**Statement of Competence**  
Agreement and authorisation according to the provisions  
of the TÜV NORD JI/CDM Certification Program**Ms. Xuemei Li**

SCHEME	STATUS	VALID UNTIL
CDM	Assessor (Validation, Verification)	2014-09-19
VCS	Assessor	2014-09-19

Authorisation status for technical areas within national scopes	
CODE	TECHNICAL AREA
13.2	Animal waste management
13.3	Animal waste management

285 – Rev. 1, Date: 2011-11-21

**Statement of Competence**  
Agreement and authorisation according to the provisions  
of the TÜV NORD JI/CDM Certification Program**Mr. Jianmin Wu**

Authorisation status for technical areas within national scopes	
CODE	TECHNICAL AREA
1.1	Thermal Energy Generation
4.3	Iron and Steel
4.5	Waste Heat Recovery
6.1	Chemical Process Industries
11.1	Chemical Process Industries
13.1	Chemical Process Industries - including verification -

280 – Rev. 0, Date: 2011-04-18

**Statement of Competence**  
Agreement and authorisation according to the provisions  
of the TÜV NORD JI/CDM Certification Program**Mr. Rainer Winter**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2013-07-03
J	Senior Assessor Technical Reviewer	2013-07-03
VCS	Senior Assessor Technical Reviewer	2013-07-03

Authorisation status for technical areas within national scopes	
CODE	TECHNICAL AREA
1.1	Thermal Energy Generation
1.2	Renewable Energies
4.1	Current Sector
4.3	Iron and Steel
4.5	Waste Heat Recovery
6.1	Chemical Process Industries
6.1	Metal Production
11.1	Chemical Process Industries
11.2	GHG Capture and Destruction
13.1	Chemical Process Industries
13.1	Waste Handling and Disposal

003 – Rev. 5, Date: 2011-08-01

**Statement of Competence**  
Agreement and authorisation according to the provisions  
of the TÜV NORD JI/CDM Certification Program**Ms. Bösran Grünwald**

SCHEME	STATUS	VALID UNTIL
CDM	Assessor (Validation, Verification)	2014-11-02
VCS	Assessor	2014-11-02

245 – Rev. 1, Date: 2011-11-03

**Statement of Competence**  
Agreement and authorisation according to the provisions  
of the TÜV NORD JI/CDM Certification Program**Mr. Stefan Winter**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2014-09-10
VCS	Senior Assessor (Validation, Verification)	2014-09-10

Authorisation status for technical areas within national scopes	
CODE	TECHNICAL AREA
1.1	Thermal energy generation
1.2	Renewable Energy
2.2	Heat distribution
3.1	Energy demand
13.1	Waste handling and disposal
13.2	Animal waste management
13.3	Animal waste management

103 – Rev. 2, Date: 2011-06-10