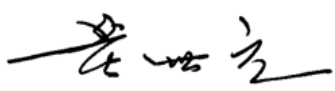




**Verification and certification report form for CDM project activities
(Version 01.0)**

Complete this form in accordance with the "Attachment: Instructions for filling out the verification and certification report form for CDM project activities" at the end of this form.

VERIFICATION AND CERTIFICATION REPORT

Title of the project activity	Shandong Gaotang 30MW Biomass Power Generation Project
Reference number of the project activity	1375
Version number of the verification and certification report	Version 02
Completion date of the verification and certification report	24/02/2016
Monitoring period number and duration of this monitoring period	3 rd Monitoring period 26/12/2012 to 19/03/2015 (first and last days included)
Version number of monitoring report to which this report applies	Version 02
Crediting period of the project activity corresponding to this monitoring period	The first crediting period is 20/03/2008 to 19/03/2015 (renewable)
Project participant(s)	National Bio Energy Co., Ltd. (Project owner) EDF Trading Limited (Buyer)
Host Party	China
Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)	Sectoral scope: 1.Energy industries (renewable/non-renewable sources) ACM0006 Version 04
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the registered PDD	313,769 tCO ₂ e
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	313,769 tCO ₂ e
Name of DOE	China Classification Society Certification Company (CCSC)
Name, position and signature of the approver of the verification and certification report	Mr. HUANG Shiyuan, General Manager 

SECTION A. Executive summary

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EDF Trading Limited has commissioned China Classification Society Certification Company (hereafter referred to as "CCSC") to carry out the 3rd periodic verification of Shandong Gaotang 30MW Biomass Power Generation Project (hereafter referred to as "the Project", UNFCCC reference No.1375) covering the monitoring period from 26/12/2012 to 19/03/2015.

The verification is based on the currently valid documentation of the United Nations Framework Convention on Climate Change (UNFCCC).

The verification process includes three phases: 1) desk review of documents; 2) on-site inspection and follow-up interviews with the relevant personnel; 3) resolution of outstanding issues and the issuance of final verification report and opinion.

3 Corrective Action Requests (CAR) and 1 Clarification Request (CL) were raised in the verification process and successfully closed upon the project participant taken actions and submitted the revised monitoring report and supporting evidence. No Forward Action Request (FAR) was raised during this verification.

In summary, CCSC confirms that the Project is implemented as planned and described in the validated and registered project design documents. The monitoring plan is in accordance with the applied methodology and the monitoring system is in place and functional. The installed equipment for measuring parameters required for calculating emission reductions are calibrated appropriately. The Project is generating GHG emission reductions. The GHG emission reductions are calculated without material misstatements.

Based on the verified amount of emission reductions stated in the verification report, CCSC confirms the following statement, and requests the CDM-EB to issue the CERs:

Actual emission reduction for the monitoring period up to (and including) 31 December 2012	2,313 tCO ₂ e
Actual emission reduction for the monitoring period from (and including) 1 January 2013 onwards	311,456 tCO ₂ e
Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period (26/12/2012 to 19/03/2015)	313,769 tCO ₂ e

A.1. Objective

CDM project Verification is the periodic independent review and ex-post determination by a DOE of the monitored reductions in GHG emissions during defined verification period. In carrying out its verification work, the DOE shall ensure that the project activity complies with the requirements of paragraph 62 of the CDM modalities and procedures. The verification shall:

- Ensure that the project activity has been implemented and operated as per the registered PDD or any approved revised PDD, and that all physical features (technology, project equipment, and monitoring and metering equipment) of the Project are in place;
- Ensure that the monitoring report and other supporting documents provided are complete in accordance with latest applicable version of the completeness checklist for requests for issuance of CERs and verifiable and in accordance with applicable CDM requirements;
- Ensure that actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan or any revised approved monitoring plan, and the approved methodology including applicable tool(s);

- Evaluate the data recorded and stored as per the monitoring methodology including applicable tool(s).

A.2. Scope

The verification scope covers the relevant documents (e.g. the registered PDD, the Monitoring Plan, the Monitoring Report, the emission reduction calculation spreadsheet, supporting documents available to the verifier and information collected through performing interviews and during the on-site assessment, EB's request and guidelines publicly available, relevant rules, including the host country legislation, etc.) to be independently reviewed, the Project geographical locations to be visited on-site, the Project local stakeholders to be interviewed with, and processes that are necessary to acquire objective evidence for the evaluation of the Project compliance to the CDM verification requirements.

The above verification activities are conducted according to the CDM requirements. In doing so, the principles of accuracy and completeness, relevance, reliability and credibility were followed.

The verification is not meant to provide any consulting service towards the PPs. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the Project.

A.3. CDM Project Description

Shandong Gaotang 30MW Biomass Power Generation Project is a newly built grid connected biomass power generation plant developed by National Bio Energy Co., Ltd., located in Gaotang Economic Development Zone, Gaotang County, Liaocheng City, Shandong Province, China. The geographical coordinates of the dam of the Project are east longitude 116°10'39" and north latitude 36°54'36".

The purpose of the Project is to collect and utilize biomass residues (cotton straw, wood residues and wheat bran) to generate electricity and realizes biomass comprehensive utilization. The Project involves the installation of one set of boiler of 130t/h and one set of 30MW turbine and generator. The expected annual electricity supplied to the power grid is 187,626MWh. The Project will achieve greenhouse gas (GHG) emission reductions by avoiding CO₂ emission from the baseline scenario, electricity generated by those fossil fuel-fired power plants connected into North China Grid. Furthermore, the Project also accomplishes an extra benefit of GHG mitigation derived from a reduction of methane emission from biomass dumping or uncontrolled burning. The estimated average annual emissions reductions over the first crediting period are 180,881tCO₂e, according to the accepted revised PDD Version 07 /42/. However, according to the requirement by EB 66th meeting, the annual amount of ERs to be issued to this Project shall be capped at the average annual emissions reductions estimated in the original registered PDD, i.e. 140,695 tCO₂e per year.

As per the Implementation log of the Project /6/, the Project started to construct on 01/04/2006, and the project was in full commercial operation since April 2008. During this monitoring period (26/12/2012 to 19/03/2015), the Project has been operated normally and there have been no events or situations that occurred which may impact the applicability of the applied methodology.

The registered PDD has been revised and approved by the CDM-EB on 02/03/2012. The accepted revised PDD version 07 dated 02/10/2011 includes the revised monitoring plan, and includes two permanent changes from project description in registered PDD, i.e. Change1: three types of biomass residues (cotton straw, wood residues and wheat bran) have been applied to the project; Change2: higher power generation.

SECTION B. Verification team, technical reviewer and approver**B.1. Verification team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Team Leader	IR	LI	Xingtong	CCSC Central Office	√	√	√	√

Note: IR: Internal Resources, EI: External Individuals

B.2. Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	YONG	Hanlin	CCSC Central Office
2.	Approver	IR	HUANG	Shiyuan	CCSC Central Office

SECTION C. Application of materiality

All the data and information has been checked during verification, thus the concept of materiality has not applied in the verification.

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1	N/A	N/A	N/A	N/A

C.2. Consideration of materiality in conducting the verification

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N/A

SECTION D. Means of verification**D.1. Desk review**

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After receiving the Monitoring Report Version 01 dated 10/11/2015, CCSC made it publicly available on the UNFCCC CDM dedicated website on 10/11/2015. (link: http://cdm.unfccc.int/Issuance/MonitoringReports/gotoIss?id=CCSC_DOE1447145749.81).

A desk review of the Monitoring Report Version 01 dated 10/11/2015 and supporting documents was conducted by the verification team. The aim of the desk review of the documentation was to verify the completeness of the data and the information presented, to carry out the compliance check of the MR with respect to the monitoring plan and the applied methodology. Particular attention was given to the frequency of measurements, the quality of the metering equipment including calibration requirements, and the quality assurance and quality control procedures. The evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions was also conducted.

In addition to the monitoring documentation provided by the project participants, the DOE reviews:

- (a) The accepted revised PDD /42/;
- (b) The validation report /43/;
- (c) The validation opinion for the changes from the PDD /44/;
- (d) Previous monitoring reports and verification reports /45//46/;
- (e) The applied monitoring methodology /47/;
- (f) Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board /48/;
- (g) Other information and references relevant to the project activity's resulting emission reductions (e.g. IPCC reports, laboratory analysis or national regulations) /24//25//26//27//28//29//30/.

Appendix 3 of this report contains a complete list of all documents and proofs reviewed by the verification team.

D.2. On-site inspection

Duration of on-site inspection: 02/12/2015				
No.	Activity performed on-site	Site location	Date	Team member
1.	Opening meeting (Scope of work, timetable, approval process, CDM procedure for verification, verification methodology, confidentiality)	project site	02/12/2015	Mr. LI Xingtong
2.	Project site visit including the status of the project implementation: Main equipments Central control room and data acquisition and processing system Monitoring device and installed position.	Project site	02/12/2015	
3.	Interview (Refer to the table in D.3)	Project site	02/12/2015	
4.	Document Review of monitoring records, invoices, calibration records, etc	Project site	02/12/2015	
5.	Closing Meeting CARs/CLs discussion, findings compilation, agreement on the time frame for replies	Project site	02/12/2015	

	Recommendations, impacts of the findings and delayed response upon timings and next steps.			
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D.3. Interviews

No	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Yao	Wenshi	National Bio Energy Co., Ltd.	02/12/2015	Status of the CDM project implementation.	Mr. LI Xingtong
					Any changes of the CDM project;	
2.	Yu	Lu			The Project on-site inspection – the evidences of construction, status and operation of key equipment, parameters monitoring and data processing activities, monitor equipment and calibration;	
3.	GUO	Zhigang	Beijing LvYuanRen He Investment Consulting Co., Ltd (consulting company)		Compliance of the project implementation with the registered project design document;	Mr. LI Xingtong
					Compliance with National Laws and Regulations.	
					Quality Management; organizational structure, responsibilities and competencies. Internal QA/QC Management procedures and document control (QA/QC)	
					Environmental Impacts	
					Preparation of Monitoring Report.	
					Compliance of the monitoring plan with the monitoring methodology;	
					Compliance of monitoring with the monitoring plan;	
					Assessment of data and calculation of GHG emission reductions.	

D.4. Sampling approach

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N/A

D.5. Clarification requests, corrective action requests and forward action requests raised

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	-	1	-
Compliance of the project implementation with the registered PDD	1	-	-
Post-registration changes	-	-	-
Compliance of the monitoring plan with the monitoring methodology including applicable tool and standardized baseline	-	-	-
Compliance of monitoring activities with the registered monitoring plan	-	1	-
Compliance with the calibration frequency requirements for measuring instruments	-	-	-
Assessment of data and calculation of emission reductions or net removals	-	1	-
Others (please specify)	-	-	-
Total	1	3	-

SECTION E. Verification findings**E.1. Compliance of the monitoring report with the monitoring report form**

Means of verification	Through cross-check and comparison, to confirm if the applied monitoring report form is valid and listed in UNFCCC website.
Findings	<p>CAR-1 was raised since the table in the section E.4 of the monitoring report is not in compliance with the latest version of the monitoring report form.</p> <p>The revised MR Version 02 has been revised to be in compliance with the latest version of the monitoring report form. The CAR-1 was closed.</p> <p>Through document review of the provided monitoring report (MR) /2/ and comparison with the latest MR template, the verification team confirm:</p> <ul style="list-style-type: none"> • The MR /2/ used the latest form available at UNFCCC website. • The MR /2/ is complete and meets all requirements of Instructions for filling out the monitoring report form /51/ and “Clean development mechanism project standard” /49/.
Conclusion	According to Para. 382 of VVS Version 09.0 /48/, CCSC verification team confirms that the monitoring report /2/ was in compliance with relevant monitoring report form and instructions therein.

E.2. Remaining forward action requests from validation and/or previous verification

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There is no remaining forward action request from validation and/or previous verification.

E.3. Compliance of the project implementation with the registered project design document

Means of	The verification team has performed an on-site inspection to assess:
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verification	<p>a) If all physical features (technology, project equipment, and monitoring and metering equipment) of the registered CDM are in place.</p> <p>b) If the PP has operated the project activity as per the accepted revised PDD /42/.</p> <p>The verification team has:</p> <ul style="list-style-type: none">• Applied the GPS instruments to check the project location and geo-coordinates;• Checked onsite the nameplates /8/ to confirm that the project equipment installation is consistent with the accepted revised PDD /42/.• Onsite checked the monitoring equipments and diagram of power connection system /4/ to confirm monitoring and metering equipment are in place.• Reviewed operation daily logs /7/ and the Power Purchase Agreement (PPA) /5/ between the project owner and the power grid, to confirm the Project has been operated as per the accepted revised PDD /42/. <p>Interviewed relevant personnel for the project implementation information, and assessed the construction and implementation status with the Implementation log of the Project /6/ and the Operation log of the Project /7/ to check the implementation status of the Project.</p>			
Findings	<p>The Project is located in Gaotang Economic Development Zone, Gaotang County, Liaocheng City, Shandong Province, China. As described in the MR /2/ and the accepted revised PDD /42/, the geographical coordinates of the Project are east longitude 116°10'39" and north latitude 36°54'36". These have been verified through GPS instruments during the on-site visit. The geographical information of the Project has been correctly reported in the MR /2/.</p> <p>The purpose of the Project is to collect and utilize biomass residues (cotton straw, wood residues and wheat bran) to generate electricity and realizes biomass comprehensive utilization. The electricity generated by the Project is supplied to North China Grid, which can be confirmed in the PPA /5/. The Project installed one set of Straw Direct Burning boiler of 130t/h with high temperature and high pressure and one set of N30-8.83/535 turbine and QF-30-2 generator, manufactured respectively by Jinan Boiler Group Co., Ltd. and China Chang Jiang Energy Corporation, Wuhan Steam Turbine Co., Ltd..</p> <p>Through checking the nameplates of boiler, turbine and generator /8/ on-site, the verification team can confirm the information of the actually installed equipments has been consistently reported in the MR /2/.</p> <p>Therefore, the verification confirmed there is no changes from the project design to actual implementation have been identified during this verification. The operation of the project activity has been conducted in accordance with the description of the accepted revised PDD /42/.</p> <p>According to the Implementation log of the Project /6/, the Project started construction on 01/04/2006. the project was in full commercial operation since April 2008 according to the Operation log of the Project /7/. During this monitoring period (26/12/2012 to 19/03/2015), the Project has been operated normally and there have been no events or situations that occurred which may impact the applicability of the applied methodology.</p> <p style="text-align: center;">Table 1 Key technical specifications of BWE boiler</p> <table><tr><td>Parameters Name</td><td>Unit</td><td>Value</td></tr></table>	Parameters Name	Unit	Value
Parameters Name	Unit	Value		

Boiler maximum continuous rating	t/h	130
Superheated steam pressure	MPa	9.2
Superheated steam temperature	°C	540
Boiler feed-water temperature	°C	210
Boiler exhaust temperature	°C	130
Boiler efficiency	%	≥92
Boiler dirt-discharge Rate	%	2
Manufacturer:	Jinan Boiler Group Co., Ltd.	

Table 2: Key technical specifications of turbine

Parameters Name	Unit	Data
Model	/	N30-8.83/535
Rated output	MW	30
Rated rotation speed	r/min	3000
Rated flow	t/h	120
Rated pressure	Mpa	8.83
Rated temperature	°C	535
Manufacturer:	China Chang Jiang Energy Corporation, Wuhan Steam Turbine Co., Ltd.	

Table 3: Key technical specifications of generator

Parameters Name	Unit	Data
Model	/	QF-30-2
Rated output	MW	30
Rated voltage	kV	6.3
Rated electric current	A	3473
Rated rotation speed	r/min	3000
Manufacturer:	China Chang Jiang Energy Corporation, Wuhan Steam Turbine Co., Ltd.	

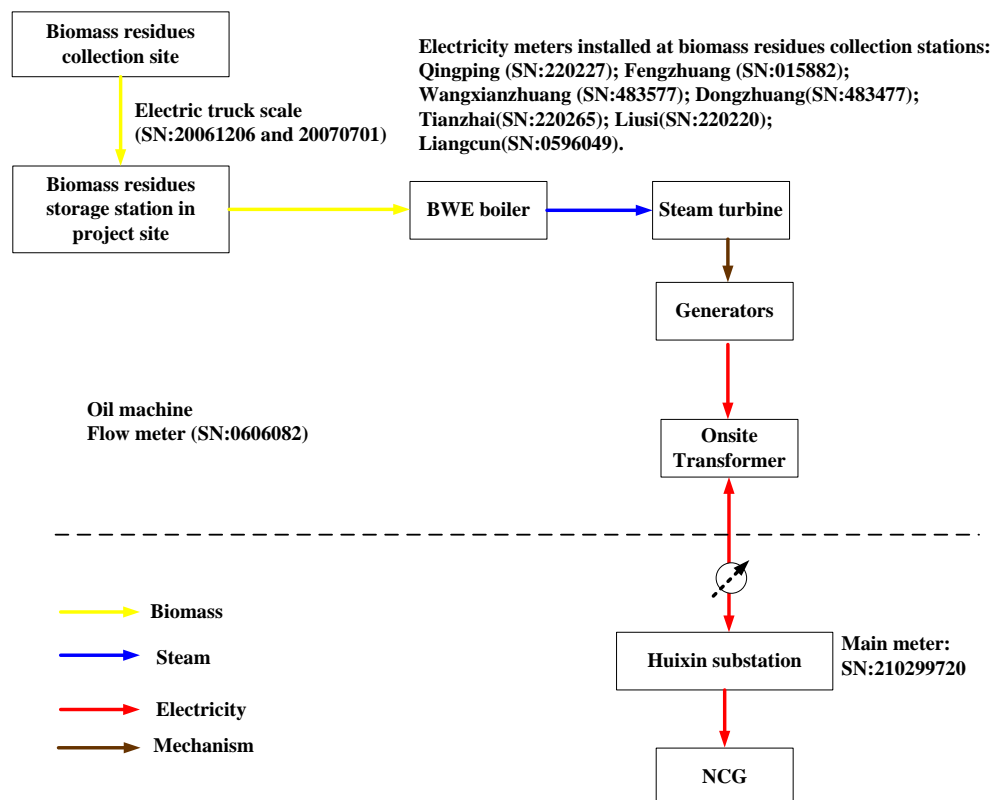
Information (data and variables) provided in the monitoring report that is different from that stated in the accepted revised PDD, and has caused an increase in estimates of the emission reductions in the current monitoring period is further reported in section E.8.6 of this report.

CL-1 was raised to request to include the information of overhaul during this monitoring period.

The information of overhaul during this monitoring period has been included in the revised monitoring report. The **CL-1** was closed.

[Power System] According to the diagram of the power connection system /4/ and the PPA /5/ checked during the site visit, The electricity output is transmitted through a transformer at the site to Huixin Substation, and then connected to Shandong Provincial Grid that is an integral part of North China Grid.

[Metering System] The monitoring system has been checked onsite by the verification team and has been confirmed to be in compliance with the accepted revised PDD Version 07. The line diagrams are shown in below:



The parameter **EG_y** (Net quantity of electricity delivered to grid) is continuously monitored by the main meter installed at the Huixin Substation.

BF_{k,y} (Quantity of biomass residues type *k* combusted in the Project plant) is on site measured by weight meters (two truck scales) and recorded by the procurement department of the plant. In order to determine the quantity of dry biomass, the moisture content of biomass residues is used for adjusting.

Moisture content of the biomass residues is monitored by the moisture analyzer at chemical laboratory on site.

NCV_k (Net Calorific Value of biomass residue type *k* consumed by the Project) was measured and reported in the laboratory of the accredited organization according to relevant international standards at least per six months /16/, which complies with the monitoring plan.

Regarding the parameter **AVD_y** (Average return trip distance (from and to) between biomass fuel supply sites and the project site), whenever the truck arrives at the plant, the staff puts down the name of biomass supply site and trip distance provided by the truckers. The maximum value is adopted for every monitoring month for conservation. Whenever the truck arrives in the power plant, the staff puts the number and the distance in the data collection system to monitor the parameter **N_y** (Number of truck trips for the transportation of biomass).

FF_{project, site,i,y} (Quantity of diesel combusted at the Project for other purposes that are attributable to the project activity) is monitored by a volume flow meter installed on an oiling machine.

	<p>EC_{PJ,y} (On-site electricity consumption attributable to the project activity) is monitored by the bi-directional main meter installed at Huixin substation, which is the same one used for monitoring EG_y. Seven meters installed at the biomass collection stations are used respectively for monitoring electricity consumed for the preparation of biomass continuously. During this monitoring period, the biomass residues suppliers sent the residues directly to the large residues collection station at the project site. Therefore the seven meters installed at the biomass collection stations were not used.</p>
Conclusion	<p>According to Para. 385 of VVS Version 09.0 /48/, CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • The implementation status and equipments installation of the project activity are consistent with the accepted revised PDD /42/; • The actual operation of the CDM project activity is as per the accepted revised PDD /42/ by the PP; • Information (data and variables) provided in the monitoring report /2/ is in accordance with that stated in the accepted revised PDD /42/.

E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline

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As per the conclusion in section E.5 and E.6, there are no temporary deviations from registered monitoring plan or applied methodology.

E.4.2. Corrections

>>

As per the conclusion in section E.3, there are no corrections for the Project.

E.4.3. Changes to the start date of the crediting period

>>

N/A.

E.4.4. Inclusion of a monitoring plan to a registered project activity

>>

The verification team has checked the accepted revised PDD (Version 07, dated 02/10/2011) /42/ to confirm a monitoring plan included in the PDD.

E.4.5. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

>>

The revised PDD containing the revised monitoring plan has been approved by the CDM-EB on 02/03/2012. There are no changes from monitoring plan in this monitoring period.

E.4.6. Changes to the project design of a registered project activity

>>

There are no changes to the project design involved in this monitoring period.

Two permanent changes from project description in registered PDD occurred during the project actual activities, include:

Change1: three types of biomass residues (cotton straw, wood residues and wheat bran) have been applied to the project;

Change2: higher power generation.

The revised PDD containing the changes above has been accepted by the CDM-EB on 02/03/2012.

E.4.7. Types of changes specific to afforestation and reforestation project activities

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N/A.

E.5. Compliance of monitoring plan with the monitoring methodology including applicable tool and standardized baseline

Means of verification	The revised monitoring plan included in the revised PDD /42/ of the Project has been assessed against the monitoring methodology ACM0006 Version 04 /47/.
Findings	Through review of the monitoring plan against the monitoring methodology ACM0006 Version 04 /47/, the verification team confirmed that the monitoring plan in the accepted revised PDD /42/ is in accordance with the applied monitoring methodology ACM0006 Version 04 /47/. The on-site assessment further demonstrated there are no monitoring aspects of the Project that are not specified in the methodology ACM0006 Version 04 /47/. No CARs/CLs/FARs raised in this section.
Conclusion	CCSC verification team confirms that the monitoring plan in the accepted revised PDD /42/ is in accordance with the applied methodology, i.e. ACM0006 Version 04 /47/. Therefore, the Project is also in compliance with Para. 388 of VVS Version 09.0 /48/.

E.6. Compliance of monitoring activities with the registered monitoring plan

E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The data and parameters fixed ex-ante include: 1) GWP_{CH_4} Global Warming Potential for CH_4 2) $EF_{electricity,y}$ CO_2 emission factor for the electricity displaced due to the project activity during the year y 3) $EF_{grid,y}$ CO_2 emission factor for grid electricity during the year y These parameters reported in the MR /2/ have been checked against the accepted revised PDD /42/ and the applied methodology /47/ by the verification team.
Findings	The emission factor of the electricity (grid) has been determined ex-ante in the accepted revised PDD /42/ for this crediting period (20/03/2008 to 19/03/2015 (renewable)) and thus is applicable to this monitoring period (26/12/2012 to 19/03/2015). $EF_{electricity,y}$ and $EF_{grid,y}$ in the monitoring report /2/ are 0.975 t CO_2 e/MWh, which has been verified against the accepted revised PDD /42/ and confirmed as consistent. The PP uses the GWP_{CH_4}

	<p>21 tCO₂/tCH₄ during the first commitment period and 25 tCO₂/tCH₄ during the second commitment period in the monitoring report.</p> <p>CAR-2 was raised: the monitoring report states that GWP_{CH₄} “21 tCO₂e/tCH₄ was fixed for the first commitment period” and “25 tCO₂/tCH₄ in the second commitment period”, while the value 21 tCO₂/tCH₄ used in the period 26/12/2012-25/01/2013 and when calculating the BE_{biomass,y}, and the value 25 tCO₂/tCH₄ used in the period 26/12/2012-25/01/2013 and when calculating the PE_{EC,y}.</p> <p>The PP uses 21 tCO₂/tCH₄ in the period 26/12/2012-25/01/2013 to calculate the baseline emissions and uses 25 tCO₂/tCH₄ in the period 26/12/2012-25/01/2013 to calculate the project emissions, which is conservative. The CAR-2 was closed.</p>
Conclusion	<p>In conclusion, according to Para. 392 and 393 of VVS (Version 09.0) /48/ and based on CCSC's local and sectorial knowledge, CCSC confirms that:</p> <p>The data and parameters fixed ex-ante have been correctly listed. Parameters fixed ex-ante for required parameters have been verified by checking the information flow and in compliance with the monitoring plan of the accepted revised PDD/42/.</p>

E.6.2. Data and parameters monitored

Means of verification	<p>According to Para. 390 of VVS Version 09.0 /48/, CCSC verification team has performed the following activities to determine whether the monitoring of parameters related to the GHG emission reductions has been implemented in accordance with the revised monitoring plan.</p> <ul style="list-style-type: none"> • Through the on-site inspection of the monitoring system, interview with the operation staff, document review including relevant records, procedures and technical specifications, the verification team has assessed the implementation of the revised monitoring plan followed by the PP; • The parameters stated in the revised monitoring plan have been checked by means above; • The verification team has checked the installation of the monitoring equipments by onsite inspection against PPA /5/, diagram of power connection system /4/ and calibration reports /31/ by qualified third party; • The documented evidence was checked by the team to confirm the monitoring results; • Based on the interview with the top management and operation staff and the review of the CDM Monitoring & Management Manual /40/, CCSC verification team has assessed the quality assurance and quality control procedures applied by the PP. <p>No sampling plan was involved in the project activity.</p>
Findings	<p>According to the revised monitoring plan, the parameters which need to be monitored include:</p> <p>(1) EG_y: Net quantity of electricity delivered to grid in year y</p> <p>The amount of EG_y is monitored continuously by a bidirectional electricity meter (Main meter) installed at Huixin Substation. The cut-off time is 0:00</p>

on the last 6th day. The monthly meter reading records /10/ have been cross checked by electricity sales receipts /11/.

The verification team has crosschecked the meter reading records /10/ with the electricity sales receipts /11/, and found consistent. The verification team has also crosschecked the meter reading records /10/ with the annual energy balance sheet /18/, which is based on the quantity of fuel fired and electricity generated, and found reasonable.

(2) $BF_{k,y}$: Quantity of biomass residue type k (k= cotton straw, wood residues and wheat bran) combusted in the project plant during the year y

The parameter was continuously on-site measured by the onsite electric truck scale and summarized into monthly summary. It is crosschecked with the annual energy balance that is based on purchased quantities and stock change for QA/QC.

The verification team has verified Purchase records, invoices and inventory records of biomass residues /13/ for this monitoring period and crosschecked with Biomass Residue Sales Receipts issued by the PP to the supplier /14/ and stock changes /18/, and found they are consistent.

(3) Moisture content of the biomass residues

It is on-site measured by the moisture analyzer and summarized in monthly measurement report. The moisture content of each type of biomass residues of every truck arrived in the Project has been monitored and the monthly weighted average value of biomass is calculated as per monitoring plan of the accepted revised PDD. The measurement results were recorded in the daily lab analysis report, summarized in the monthly measure report, and is kept both electronically and in paper print /15/.

The verification team has checked the Moisture content measurement reports of biomass /15/ and found the monthly average value applied in the ER calculation is correct.

(4) NCV_k : Net calorific value of the biomass residue type k consumed by the project

NCV_k was measured and reported in the laboratory of the accredited organization Shandong Taishan Institute of Mineral Resource Detection according to relevant international standards at least per six months on 30/11/2012, 25/05/2013, 23/11/2013, 24/05/2014 and 23/11/2014 /16/. Three samples for each measurement of each type and average of NCV of these samples was adopted. The certificated code of the entity is CNAS L0745 (valid from 20/11/2012 to 19/11/2015), which is authorized by China National Accreditation Service for Conformity Assessment /39/. The monitoring frequency of the NCV of biomass is in line with the requirement of at least once half a year in the accepted revised PDD.

The verification team has checked consistency of measurements with default values of IPCC. There is no significant difference between the measurement results and the default values.

(5) AVD_y : Average return trip distance (from and to) between biomass fuel supply sites and the Project site

The project owner named each site and measured the distances of different collection sites on map. The staffs find which collection site it is from and put down the name of collection site when each truck arrives. And then distance of biomass can be identified and is put down in the data collection system. Finally, the maximum value is adopted for every month for conservation.

The verification team has verified the collection sites against the local map /17/, and was able to verify that the reported AVD is reliable. It is reasonable that maximum value is adopted for every month for conservation.

(6) N_y : Number of truck trips for the transportation of biomass

When each trucks arrive at the project plant, it is recorded in the data collection system. Monthly total number of truck trips was summarized into monthly records on number of truck trips.

Monthly summary records have been used for calculating N_y . The verification team has checked the raw data and verified the calculation process. Reported data in the monitoring report and the ER calculation spreadsheet and confirmed to be correct.

(7) $EF_{km,CO_2,y}$: Average CO2 emission factor for transportation of biomass with trucks

IPCC 2006 default value form Moderate Control index for the US heavy Duty Diesel Vehicle is used to calculate the emission reductions. The verification team has checked the IPCC 2006 value and confirmed it to be correct /22/.

(8) $FF_{project\ plant,i,y}$: Quantity of diesel combusted in the biomass residue fired power plant during the year y

No fossil fuel was designed to combust in the boiler for startup. By the onsite assessment, the verification team has confirmed no diesel has been co-fired in the Project. The verification team has also checked the diesel usage records /18/ of the Project and found no diesel co-fired in the Project in the monitoring period.

(9) $FF_{project\ site,i,y}$: Quantity of diesel combusted at the project site for other purposes that are attributable to the project activity during the year y

The diesel has been used for biomass processing in the project site. It is monitored by the diesel flow meter installed of the diesel tank in the project site, and recorded in the diesel usage record /19/, which has been crosschecked with the diesel invoice /18/ and stock change record /19/, and found reasonable. The volume of diesel has been multiplied by density of diesel to get the mass quantity of diesel.

$$FF_{project\ site,i,y} = \rho_{diesel} \text{ (kg/liter)} * \text{volume flow(liter)} / 1000$$

(10) ρ_{diesel} Density of diesel

The default value from the national standard “automobile diesel fuel GB 19147-2013” /24/ is used. The verification team has checked the “automobile diesel fuel GB 19147-2013” /24/ and confirmed it to be correct.

(11) $EF_{CO_2,FF,i}$: CO_2 emission factor for fossil fuel type i

The IPCC 2006 default value has been applied, which has been checked against the IPCC 2006 and found consistent /22/.

(12) NCV_i : Net Calorific Value of fossil fuels combusted at the project site for other purposes that are attributable to the project activity during the year y

The default value from the China Energy Statistical Yearbook 2015 /23/ is used to calculate the emission reductions. The verification team has checked the value from the China Energy Statistical Yearbook 2015 /23/ and confirmed it to be correct.

(13) $EF_{burning,CH_4,k,y} * NCV_k$: CH_4 emission factor for uncontrolled burning of the biomass residues

According to the IPCC default value provided in the methodology, the CH_4 emission factor of combustion of biomass in power plant is 0.0027 t CH_4 /t. Considering a conservativeness factor of 0.73, the CH_4 emission factor in this PDD is taken as 0.001971 t CH_4 /TJ. The verification team has checked the value against the methodology /47/ and the PDD /42/, and found consistent.

(14) $EF_{CH_4,BF}$: CH_4 emission factor for the combustion of biomass residues in the project plant

The default values, as provided in Table3 of ACM0006 (Version4) which sources from 2006 IPCC Guideline, Volume2, Chapter2, Tables 2.2 to 2.6 Thus, in this case a CH_4 emission factor of 0.0000411t CH_4 /GJ has been used in the MR correctly.

(15) $EG_{P,J,y}$: On-site electricity consumption attributable to the project activity during the year y

Electricity consumed by the project plant is continuously on-site measured and monthly recorded by the power distribution company. The cut-off time is 0:00 on the last 6th day. Main meter installed at Huixin substation and seven electricity meters installed at collection stations are used to monitor the on-site electricity consumption. The seven out site collection stations were not used in this monitoring period and there was no electricity consumed in these stations in this monitoring period. /12/

The monthly meter reading records /10/ of the main meter have been cross checked by electricity sales receipts /11/. The verification team has crosschecked the meter reading records /10/ with the electricity sales receipts /11/, and found consistent.

(16) Quantity of available biomass residues of type k in the region and

(17) Quantity of biomass residues of type k that are utilized (e.g. for energy generation or as feedstock) in the defined geographical region

Both parameters were obtained from statistic or survey conducted by local

	<p>government annually. The verification team has checked the documented evidence /21/ and confirmed the information in the monitoring report is valid.</p> <p>Therefore, the verification team confirmed a complete set of electricity data for the specified monitoring period is available and all data have been consistently reported in the MR /2/ and the ER spreadsheet /3/.</p> <p>Management and operational system:</p> <p>The PP has the responsibility of overall monitoring, which has established a monitoring team for monitoring of power generation, maintenance and operation of the CDM Project activity. All the records related to generation and maintenance has been sufficiently maintained.</p> <p>Responsibilities have been allocated to well-trained monitoring staff as per the monitoring plan.</p> <p>The QA/QC procedures are part of management system and are documented in management procedures.</p> <p>The records and all relevant paper based information are well archived by the project owner and available for verification.</p> <p>The responsibilities and the procedures included in the CDM Monitoring & Management Manual /40/ have been verified. CDM Monitoring & Management Manual /40/ and internal training records /41/ have been provided and verified by the verification team.</p> <p>No CARs/CLs/FARs was raised in this section.</p>
Conclusion	<p>Corresponding to the paragraph 392 and 393 of VVS Version 09.0 /48/, CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • The monitoring has been carried out in accordance with the monitoring plan contained in the accepted revised PDD /42/. • All parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.

E.6.3. Implementation of sampling plan

Means of verification	All the data and information has been checked during verification, thus no sampling plan has been applied in the project.
Findings	N/A
Conclusion	N/A

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	<p>The monitoring equipments should be calibrated periodically according to relevant national standards. The verification team has verified the calibration reports /31/ against the revised monitoring plan and relevant national or local standards.</p> <p>The monitoring plan contained in the registered PDD requires that the accuracy of main meter should be 0.2S, while in the revised monitoring plan contained in the accepted revised PDD, it requires the accuracy of the main</p>
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meter is no less than 0.5. And before 13/01/2011, electricity meters with accuracy 0.5/0.5S were used in the Project, therefore 0.5% of electricity has been discounted from the EG_y for conservative. However, the electricity meter has been replaced by the new meter with accuracy of 0.2S since 13/01/2011, which complies with the monitoring plan contained in the accepted revised PDD. And then the PP does not need to discount 5% of the electricity from EG_y . The verification team considers that this is appropriate. Besides, even if 0.5% of the electricity is discounted, the total emission reductions during this monitoring period are capped to be 313,769 tCO₂e, which does not impact the conservativeness.

Findings

The following measuring instruments are involved in the monitoring system. During this monitoring period, all the meters have been operating well and were duly calibrated. Through on-site observation and checking calibration reports /31/, the verification team confirmed the information of metering equipments has been consistently reported in the MR /2/, as below:

Meter ID	Serial number	Monitoring parameter	Accuracy	Calibration frequency	Calibration date	Validity	Calibration entity
Electricity meter (Main meter)	210299720	$EG_{PJ,y}$	0.2S	Once per year	04/01/2012; 03/01/2013; 02/01/2014; 01/01/2015	Date to 31/12/2015	A
#1 electricity meter	220227	$EG_{PJ,y}$	2.0	Once per five years	20/09/2006; 15/09/2011	Date to 14/09/2016	A
#2 electricity meter	015882	$EG_{PJ,y}$	2.0	Once per three years	30/09/2006 20/09/2009 13/09/2012	Date to 12/09/2015	A
#3 electricity meter	483577	$EG_{PJ,y}$	2.0	Once per five years	25/11/2006 20/11/2011	Date to 19/11/2016	A
#4 electricity meter	483477	$EG_{PJ,y}$	2.0	Once per five years	05/11/2007 30/09/2012	Date to 29/09/2017	A
#5 electricity meter	220265	$EG_{PJ,y}$	2.0	Once per three years	21/08/2006 19/08/2009 15/08/2012	Date to 14/08/2015	A
#6 electricity meter	220220	$EG_{PJ,y}$	2.0	Once per three years	08/10/2006 06/10/2009 30/09/2012	Date to 29/09/2015	A
#7 electricity meter	0596049	$EG_{PJ,y}$	2.0	Once per five years	05/12/2007 30/09/2012	Date to 29/09/2017	A
Electric truck scale #1	20061206	$BF_{k,y}$	class III	Once per six months	19/11/2012; 15/05/2013; 14/11/2013; 13/05/2014; 12/11/2014	Date to 11/05/2015	B
Electric truck scale #2	20070701	$BF_{k,y}$	class III	Once per six months	19/11/2012; 15/05/2013; 14/11/2013; 13/05/2014; 12/11/2014	Date to 11/05/2015	B
Moisture analyzer	3506073	Moisture content	Class I	Once per year	30/03/2012; 30/03/2013; 29/03/2014	Date to 28/03/2015	C
Flow meter	0606082	$FF_{project\ site,i,y}$	3%	Once per year	15/05/2012; 13/05/2013; 13/05/2014	Date to 12/05/2015	B

Calibration entity:

	<p>A: Gaotang Power Company Electric Energy Measurement Centre /35/ B: Gaotang Metrology Testing Institute /36/ C: Liaocheng Metrology Testing Institute /37//38/</p> <p>[Instrument accuracy]</p> <p>The verification team has verified the calibration reports /31/. All the electricity meters meet the rated accuracy level as described in the monitoring plan contained in the accepted revised PDD and are in compliance with the industry standard DL/T 448-2000 /24/. The truck scales meet the rated accuracy level as described in the monitoring plan contained in the accepted revised PDD and are in compliance with the national standard JJG 539-1997 /28/. The moisture analyser meets the rated accuracy level as described in the monitoring plan contained in the accepted revised PDD and is in compliance with the national standard JJG1036-2008/29/. The flow meter meets the rated accuracy level as described in the monitoring plan contained in the accepted revised PDD and is in compliance with the national standard JJG443-2006 /30/.</p> <p>[Calibration frequency]</p> <p>The calibration frequency of the electricity meters fulfills the requirement as described in the monitoring plan contained in the accepted revised PDD and is in compliance with the industry standard JJG 596-2012 /25/. The calibration frequency of the truck scales the requirement as described in the monitoring plan contained in the accepted revised PDD and is in compliance with the industry standard JJG 539-1997 /28/. The calibration frequency of the moisture analyser fulfills the requirement as described in the monitoring plan contained in the accepted revised PDD and is in compliance with the industry standard JJG1036-2008 /29/. The calibration frequency of the flow meter fulfills the requirement as described in the monitoring plan contained in the accepted revised PDD and is in compliance with the industry standard JJG443-2006 /30/.</p>
Conclusion	<p>Corresponding to the paragraph 400 of VVS Version 09.0 /48/, CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • The calibration is conducted at the frequency as specified by the methodology /47/ and the monitoring plan contained in the accepted revised PDD /42/.

E.8. Assessment of data and calculation of emission reductions or net removals

E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	<p>According to the Para.402 of VVS Version 09.0 /48/, the verification team has performed the following activities to assess the data and calculations of GHG emission reductions achieved by the Project as per the methodology /47/:</p> <ul style="list-style-type: none"> • Through desk review and on-site inspection on the monitoring results from the data records, to verify that a complete set of data for the specified monitoring period is available. • Information provided in the monitoring report /2/ has been cross-checked with other sources /10//11//12//13//14//15//16//17//18//19//20//21/.
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	<ul style="list-style-type: none"> Review the calculations of baseline GHG emissions have been carried out in accordance with the formulae and methods described in the accepted revised PDD /42/, and the methodology /47/; Review emission factors, IPCC default values, GWPs and other reference values as per the accepted revised PDD /42/.
Findings	<p>According to the accepted revised PDD /42/ and the applied methodology /47/, the emissions reductions are calculated as follows:</p> $ER_y = ER_{\text{electricity},y} + ER_{\text{heat},y} + BE_{\text{biomass},y} - PE_y - L_y$ <p>The baseline emissions are the sum of $ER_{\text{electricity},y}$, $ER_{\text{heat},y}$ and $BE_{\text{biomass},y}$.</p> <p>a) Emission reductions due to displacement of electricity ($ER_{\text{electricity},y}$)</p> $ER_{\text{electricity},y} = EG_y * EF_{\text{electricity},y}$ <p>Where:</p> <p>$ER_{\text{electricity},y}$ are the emission reductions due to displacement of electricity during the year y (tCO₂e/yr).</p> <p>EG_y is the net quantity of electricity delivered to grid in year y.</p> <p>$EF_{\text{electricity},y}$ is the CO₂ emission factor for the electricity displaced due to the project activity during the year y (tCO₂e/ MWh), which is 0.975 tCO₂e/MWh.</p> <p>Thus, $ER_{\text{electricity},y} = EG_y * EF_{\text{electricity},y} = 437,347.680 \text{ MWh} * 0.975 \text{ tCO}_2\text{e/MWh} = 426,413.99 \text{ tCO}_2\text{e}$</p> <p>Please refer to Table E.1 in the monitoring report for monthly monitoring data.</p> <p>b) Emission reductions due to displacement of heat ($ER_{\text{heat},y}$)</p> <p>Emission reductions due to displacement of heat ($ER_{\text{heat},y}$) is not considered for the project. Therefore, $ER_{\text{heat},y} = 0 \text{ tCO}_2\text{e}$</p> <p>c) Baseline emissions due to natural decay or burning of anthropogenic sources of biomass residues ($BE_{\text{biomass},y}$)</p> $BE_{\text{biomass},y} = GWP_{\text{CH}_4} * \sum_k BF_{PJ,k,y} * NCV_k * EF_{\text{burning,CH}_4,k,y}$ <p>Where:</p> <p>$BE_{\text{biomass},y}$ is baseline emissions due to natural decay or burning of anthropogenic sources of biomass residues during the year y (tCO₂e/year).</p> <p>GWP_{CH_4} is the Global Warming Potential for methane valid for the relevant commitment period which is determined in the PDD as 21 .</p> <p>NCV_k is the net calorific value of the biomass residue type k in GJ per tons of dry matters.</p> <p>$BF_{PJ,k,y}$ is the incremental quantity of biomass residue type k used as fuel in the project plant during the year y in tons.</p> <p>And $GWP_{\text{CH}_4} = 21$ for the first commitment period and 25 for the second commitment period, and since 25/01/2013, the GWP for CH₄ of 25 has been applied in the baseline emission calculation. The verification team</p>

	<p>confirm that since GWP_{CH_4} is used to calculate the baseline emissions, using the value 21 in the period 01/01/2013 to 24/01/2013 results in lower baseline emissions, which is conservative.</p> <p>$EF_{burning,CH_4,k,y}$ is the CH_4 emission factor for uncontrolled burning of the biomass residue type k in tCH_4/GJ.</p> <p>According to the accepted revised PDD, $NCV_k * EF_{burning,CH_4,k,y} = 0.001971 tCH_4/ton$.</p> $\sum_k BF_{PJ,k,y} = BF1 + BF2 + BF3^1$ $= 5,673.11t + 6,685.96t + 61.53 t = 12,460.60t \text{ (26/12/2012-25/01/2013);}$ $\sum_k BF_{PJ,k,y} = BF1 + BF2 + BF3$ $= 169,903.46t + 193,138.03t + 18623.65t = 381,665.14t \text{ (26/01/2013-19/03/2015);}$ <p>Therefore,</p> $BE_{biomass,y} = GWP_{CH_4} * \sum_k BF_{PJ,k,y} * NCV_k * EF_{burning,CH_4,k,y}$ $= (21tCO_2/tCH_4 * 12,460.60t + 25tCO_2/tCH_4 * 381,665.149) * 0.001971tCH_4/ton$ $= 19,320.65 tCO_2e$ <p>CAR-3 was raised: Electricity data during the period 23/02/2015-19/03/2015 is not consistent with the documented evidence.</p> <p>The verification team has checked the revised monitoring report Version 02 and emission reductions calculation spreadsheet Version 02 and can confirm that the electricity data during the period 23/02/2015-19/03/2015 has been corrected accordingly. The CAR-3 was closed.</p> <p>Please refer to Table E.2 in the monitoring report for monthly monitoring data.</p> <p>The verification team confirmed the calculation of baseline emissions as reported in the MR /2/ and the ER spreadsheet /3/ is correct.</p>
Conclusion	<p>Corresponding to the paragraph 403 of VVS Version 09.0 /48/, CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • A complete set of data for the monitoring period is available. • Information on the baseline GHG emission calculation provided in the monitoring report /2/ has been cross-checked with other sources. • Calculations of baseline emissions have been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology document. • There are no assumptions applied.

¹ BF₁=Cotton straw;

BF₂=Wood residues;

BF₃=Wheat bran

	<ul style="list-style-type: none"> • Appropriate emission factor of the power grid has been correctly applied.
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E.8.2. Calculation of project GHG emissions or actual net GHG removals by sinks

Means of verification	The verification team has reviewed the project emission calculation as per the accepted revised PDD /42/ and the applied methodology /47/.
Findings	<p>According to the accepted revised PDD, project emissions GHG emissions from the project activity in year y are calculated as follows:</p> $PE_y = PET_y + PEFF_y + PE_{EC,y} + GWP_{CH_4} * PE_{biomass,CH_4,y}$ <p>Where:</p> <p>PE_y are project CO₂ emissions during the year y (tCO₂e/year),</p> <p>PET_y are CO₂ emissions during the year y due to transportation of the biomass to the project plant (tCO₂e/year) ,</p> <p>$PEFF_y$ are the CO₂ emissions during the year y due to fossil fuels co-fired by the generation facility or other fossil fuels consumption at the project site that is attributable to the project activity (tCO₂e/year),</p> <p>$PE_{EC,y}$ are the CO₂ emissions during the year y due to electricity consumption at the project that is attributable to the project activity (tCO₂e/year).</p> <p>GWP_{CH_4} is the Global Warming Potential for methane valid for the relevant commitment period,</p> <p>$PE_{biomass,CH_4,y}$ is the CH₄ emissions from the combustion of biomass residues during the year y (tCH₄/year).</p> <p>a) Carbon dioxide emissions from combustion of fossil fuels for transportation of biomass residues to the project plant (PET_y)</p> $PET_y = N_y * AVD_y * EF_{km,CO_2,y}$ <p>Where:</p> <p>PET_y are CO₂ emissions during the year y due to transport of biomass residues to the project plant (tCO₂e/year)</p> <p>AVD_y is the maximum round trip distance (from and to) between the biomass residue fuel supply sites and the site of the project plant during the year y (km)</p> <p>$EF_{km,CO_2,y}$ is the average CO₂ emission factor for the trucks measured during the year y (tCO₂e/km)</p> <p>N_y is the number of truck trips during the year y</p> <p>Please refer to the data in Table E.3 of the monitoring report for the monitoring data.</p> <p>Therefore, $PET_y = 4,360.54$ tCO₂e</p> <p>b) Carbon dioxide emissions from fossil fuel consumption in the power plant ($PEFF_y$)</p>

Following ACM0006 version 04 in the PDD, the project owner established the formulae for calculating the emissions from fossil fuel use in the project plant, using the quantity of each fuel combusted and the appropriate emissions coefficient, as follows:

$$PEFF_y = \Sigma (FF_{project\ plant,i,y} + FF_{project\ site,i,y}) * NCV_i * EF_{co2,FF,i}$$

Where:

$PEFF_y$ are CO₂ emissions from on-site consumption of fossil fuels in the biomass power plant during the year y in tons of CO₂ equivalents (tCO₂/yr),

$FF_{project, plant,i,y}$ is the quantity of fossil fuel type i combusted in the project plant during the year y (ton/year), which is 0 in this project,

$FF_{project, site,i,y}$ is the quantity of fossil fuel type i combusted at the project site during the year y (ton/year),

NCV_i is the Net calorific value of diesel (GJ/ton), which is 42.652 GJ/ton,

$EF_{co2,FF,i}$ is CO₂ emission factor for the diesel (tCO₂/GJ), which is 0.0741 tCO₂/GJ.

There is no fossil fuel was combusted as auxiliary fuel for boiler start up, thus,

$$FF_{project\ plant,i,y} = 0 \text{ tCO}_2$$

$$FF_{project, site,i,y} = 430.57 \text{ t.}$$

Please refer to Table E.4 in the monitoring report for monthly monitoring data.

$$\begin{aligned} \text{Therefore, } PEFF_y &= \Sigma (FF_{project\ plant,i,y} + FF_{project\ site,i,y}) * NCV_i * EF_{CO2,FF,i} \\ &= (0 \text{ t} + 430.57 \text{ t}) * 42.652 \text{ GJ/ton} * 0.0741 \text{ tCO}_2/\text{GJ} \\ &= 1,360.82 \text{ tCO}_2 \end{aligned}$$

c) Carbon dioxide emissions from electricity consumption ($PE_{EC,y}$)

$$PE_{EC,y} = EC_{PJ,y} * EF_{grid,y}$$

Where:

$PE_{EC,y}$ are CO₂ emissions from on-site electricity consumption attributable to the project activity (tCO₂e/year) .

$EC_{PJ,y}$ is the on-site electricity attributable to the project activity during the year y (MWh),

$EF_{grid,y}$ is the CO₂ emission factor for grid electricity during the year y (tCO₂/ MWh), which is 0.975 tCO₂e/MWh.

Since the seven out site collection stations were not used in this monitoring period and there was no electricity consumed in these stations in this monitoring period. $EC_{PJ,y}$ = electricity consumption at the project site measured by main meter installed at Huixin Substation.

$$EC_{PJ,y} = 1,215.72 \text{ MWh}$$

Please refer to Table E.5 in the monitoring report for monthly monitoring data.

Therefore:

	<p>$PE_{EC,y} = EC_{PJ,y} * EF_{grid,y} = 1,215.72 \text{ MWh} * 0.975 \text{ tCO}_2\text{e/MWh} = 1,185.33 \text{ tCO}_2\text{e}$</p> <p>d) Methane emissions from combustion of biomass residues ($PE_{biomass,CH_4,y}$)</p> $PE_{biomass,CH_4,y} = EF_{CH_4,BF} * \sum_k BF_{k,y} * NCV_k$ <p>Where:</p> <p>$PE_{biomass,CH_4,y}$ are the project emissions from biomass controlled burning (tCH₄/year) ,</p> <p>$BF_{k,y}$ is the quantity of the biomass residues used as fuel in the project plant during the year y in tons</p> <p>NCV_k is the net calorific value of the biomass residues type k in GJ per ton, and</p> <p>$EF_{CH_4,BF}$ is the CH₄ emission factor for controlled burning of the biomass residues in tCH₄/TJ, which is 0.0000411 tCH₄/GJ.</p> <p>$PE_{biomass,CH_4,y} = 245.26 \text{ tCH}_4$</p> <p>Please refer to Table E.6 in the monitoring report for details.</p> <p>Therefore</p> $PE_y = PET_y + PEFF_y + PE_{EC,y} + GWP_{CH_4} * PE_{biomass,CH_4,y}$ $= 4,360.54 \text{ tCO}_2\text{e} + 1,360.82 \text{ tCO}_2\text{e} + 1,185.33 \text{ tCO}_2\text{e} + 245.26 \text{ tCH}_4 * 25 \text{ tCO}_2\text{e/tCH}_4 = 13,038.07 \text{ tCO}_2\text{e}$
Conclusion	<p>Corresponding to the paragraph 403 of VVS Version 09.0 /48/, CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • A complete set of data for the monitoring period is available. • Information on the project GHG emission calculation provided in the monitoring report /2/ has been cross-checked with other sources. • Calculations of project emissions have been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology document.

E.8.3. Calculation of leakage GHG emissions

Means of verification	The verification team has reviewed the leakage calculation as per the accepted revised PDD /42/ and the applied methodology /47/.
Findings	<p>The data of available biomass and biomass utilized out of the project in the region covering a radius of 50km around the project activity was calculated from official data provided by local government.</p> <p>The verification team has verified the data in the table E.7 of the monitoring report against the official data provided by the local government /21/, and found consistent. From Table E.7 of the monitoring report, it can be concluded that the available quantity of biomass in the region in year 2013~2014 is 25% larger than the quantity of biomass that is utilized, including the project.</p> <p>Therefore, according to the accepted revised PDD, $L_y = 0 \text{ tCO}_2\text{e}$</p>

Conclusion	<p>Corresponding to the paragraph 403 of VVS Version 09.0 /48/, CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • A complete set of data for the monitoring period is available. • Information on the leakage GHG emission calculation provided in the monitoring report /2/ has been cross-checked with other sources. • Calculations of leakage have been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology document.
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E.8.4. Summary of calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means verification of	The verification team has reviewed the calculation of GHG emission reductions in the final MR /2/ and the ER spreadsheet /3/ as per the accepted revised PDD /42/ and the applied methodology /47/.
Findings	<p>The emission reductions during the monitoring period (26/12/2012 to 19/03/2015) are calculated as:</p> $ER_y = BE_y - PE_y - L_y = 445,734.64 - 13,038.07 - 0 = 432,696 \text{ tCO}_2\text{e.}$ <p>The team confirmed the calculation of emission reductions as reported in the MR /2/ and the ER spreadsheet /3/ is correct.</p> <p>No CARs/CLs/FARs raised in this section.</p>
Conclusion	<p>Corresponding to the paragraph 403 of VVS Version 09.0 /48/, CCSC verification team confirms that:</p> <ul style="list-style-type: none"> • A complete set of data for the monitoring period is available. • Information provided in the monitoring report /2/ has been cross-checked with other sources; • Calculations of baseline emissions, and project activity emissions and leakage, as appropriate, been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology document. • There are no assumptions in emission reductions calculation. • Appropriate emission factor of the power grid has been correctly applied.

E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Means verification of	The comparison of actual GHG emission reductions with estimates in revised PDD /42/ has been checked and re-calculated by the verification team.
Findings	<p>Based on the above assessment, the emission reduction during the monitoring period (26/12/2012 to 19/03/2015) is verified as 432,696 tCO₂e. According to the accepted revised PDD /42/, the annual emission reductions were estimated as 180,881 tCO₂e, while the value of estimated emission reductions during this monitoring period in the accepted revised PDD /42/ are 313,769 tCO₂e (180,881 tCO₂e × 814 days/365days = 313,769 tCO₂e), the verified emission reductions are 7.27% higher than the estimated value in the monitoring period.</p>

	No CARs/CLs/FARs raised in this section.
Conclusion	<p>Corresponding to the paragraph 256 of CDM Project Standard Version 09.0 /48/, CCSC can confirm that:</p> <ul style="list-style-type: none"> • A comparison of actual GHG emission reductions or net anthropogenic GHG removal of the project activity achieved during this monitoring period with the estimates in the accepted revised PDD /42/ has been provided in the Monitoring Report /2/. • The verification team confirms that the calculation of the comparison is correct.

E.8.6. Remarks on difference from estimated value in registered PDD

Means verification	of The verified emission reductions are 7.27% higher than the estimated value in the monitoring period. Remarks on difference from estimated value in the PDD provided in the monitoring report has been verified by the verification team.
Findings	<p>The verified emission reductions are 7.27% higher than the estimated value in the monitoring period, which is mainly because of the Net quantity of electricity delivered to grid is 4.23%² higher compared with the estimated value in accepted PDD. However, according to the requirement by EB 66th meeting, the annual amount of ERs to be issued to this project activity shall be capped at the average annual emissions reductions estimated in the original registered PDD, i.e. 140,695 tCO₂e.</p> <p>Therefore, the total emissions reductions achieved during this monitoring period (814 days) should be 313,769 tCO₂e, and Requested values achieved up to 31 December 2012 is 2,313 tCO₂e, Requested values achieved from 1 January 2013 onwards is 311,456 tCO₂e.</p> <p>The verification team has verified the requirement by EB 66th meeting, and can confirm that it is reasonable that the monitoring report claim the capped emission reductions.</p>
Conclusion	The verification team confirm that it is reasonable that the monitoring report claim the capped emission reductions.

E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means verification	of The verification team has reviewed the monitoring report to assess whether the GHG emission reductions or removals has been correctly calculated based on a pro-rata approach.
Findings	<p>According to the requirement by EB 66th meeting, the annual amount of ERs to be issued to this project activity shall be capped at the average annual emissions reductions estimated in the original registered PDD, i.e. 140,695 tCO₂e.</p> <p>Therefore, the total emissions reductions achieved during this monitoring period (814 days) should be 313,769 tCO₂e, and Requested values achieved up to 31 December 2012 is 2,313 tCO₂e, Requested values achieved from 1 January 2013 onwards is 311,456 tCO₂e. The verification team can confirm the calculation is correct.</p>

² 4.23%=(195,562.86 MWh/a of this MP-187,626MWh/a in accepted revised PDD) /187,626MWh/a*100%.

	No CARs/CLs/FARs raised in this section.
Conclusion	<p>According to Para.254 of CDM Project Standard Version 09.0 /48/, CCSC verification team confirms that the project participants has calculated GHG emission reductions or removals based on a pro-rata approach in the following manner:</p> <ul style="list-style-type: none"> • The amount of emission reductions or removals achieved in the monitoring period for each GHG has be allocated proportionally to the duration of the period up to 31 December 2012 and the period from 1 January 2013 onwards before multiplying with the GWPs for the respective periods.

SECTION F. Internal quality control

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CCSC has taken the following quality control measures within the verification team and of the verification process according to relevant CCSC's internal procedures:

- The application review of the verification was conducted and concluded that CCSC has the accredited scope and competence to verify the Project with impartiality as well;
- The verification team was selected with due considerations given in terms of the competence and impartiality;
- The verification team carried out the verification work and compiled a verification report strictly following CCSC's Procedures for Implementation of Verification.

The verification report submitted by the verification team was subjected to a technical review and decision-making process, the technical reviewers and decision-makers are qualified and independent from the verification team. If any issue is raised during technical review and/or decision-making the same is to be discussed between the issue-raiser and the team leader as well as the PP. All issues must be satisfactorily addressed before the submission of the report for final approval. The persons who conducted the technical review and decision-making for the Project are shown in section B.2 this report and their Certificates of Competence can be found in Appendix 2 of this report.

The report approved by the authorized official of CCSC as the final report together with relevant documents are submitted to CDM EB through the UNFCCC dedicated web-platform for request for issuance (only if an unconditioned positive verification/certification opinion is concluded).

SECTION G. Verification opinion

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The verification team assigned by the China Classification Society Certification Company (CCSC) concludes that the CDM Project "Shandong Gaotang 30MW Biomass Power Generation Project" in P.R.China, as described in the monitoring plan contained in the accepted revised PDD /42/ (Version 07, 02/10/2011), and Monitoring Report (Version 02, 11/12/2015) /2/, meets all relevant requirements of the UNFCCC for CDM project activities including article 12 of the Kyoto Protocol, the modalities and procedures for CDM (Marrakesh Accords) and the subsequent decisions by the COP/MOP and CDM Executive Board. The verification is conducted in line with the VVS /48/ requirements.

The verification was executed by taking the following methods and in the following steps so far:

- Publication of the MR on the UNFCCC website (on 10/11/2015)
- Desk review of Monitoring Report Version 01 dated 10/11/2015 and related documents
- On-site inspection and interviews (on 02/12/2015)
- Raise corrective action requests (CARs) and clarification requests (CLs)

- Desk review of revised MR (Version 02, 11/12/2015) /2/ and responses to CARs/CLs/FARs
- Issue of this version of the verification report

The Project is implemented according to selected monitoring methodology ACM0006 Version 04 /47/ and the monitoring plan contained in the accepted revised PDD /42/. The monitoring equipment was installed, calibrated and maintained in a proper manner. The monitoring system is in place and the Project is generating GHG emission reductions as a CDM project.

CCSC therefore issues the positive verification opinion expressed in the Certification statement in Section H.

SECTION H. Certification statement

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CCSC has carried out the 3rd periodic verification of the Project "Shandong Gaotang 30MW Biomass Power Generation Project" (UNFCCC reference No.1375). This verification covers the period from 26/12/2012 to 19/03/2015 (first and last days included).

In the course of the verification 3 Corrective Action Request (CAR) and 1 Clarification Requests (CLs) were raised and successfully closed. No Forward Action Request (FAR) was raised. The verification is based on the Monitoring Report Version 01 dated 10/11/2015 /1/, the revised Monitoring Report Version 02 dated 11/12/2015 /2/, the accepted revised PDD /42/ and the registered validation report, ER Spreadsheet /43/, and supporting documents available to CCSC.

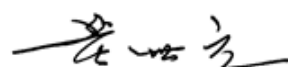
As the result of the 3rd periodic verification, CCSC confirms that:

- The project activity has been implemented and operated as per the accepted revised PDD /42/ and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- The monitoring report /2/ and other supporting documents provided are complete in accordance with the latest applicable version of the completeness checklist for requests for issuance of CERs and in accordance with applicable CDM requirements;
- The actual monitoring systems and procedures are in place and functional, and comply with the monitoring systems and procedures described in the monitoring plan;
- The monitoring plan is in accordance with the applied methodology, i.e., ACM0006 Version 04 /47/;
- The installed equipment for measuring parameters required for calculating emission reductions are calibrated appropriately.
- The GHG emission reductions are calculated without material omission, errors, misstatements and in a conservative and appropriate manner.

CCSC hereby certifies that the Project has achieved emission reductions as follows:

Actual emission reduction for the monitoring period up to (and including) 31 December 2012	2,313 tCO ₂ e
Actual emission reduction for the monitoring period from (and including) 1 January 2013	311,456 tCO ₂ e
Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period (26/12/2012 to 19/03/2015)	313,769 tCO ₂ e

For and on behalf of CCSC



Authorized Signature

Name: Huang Shiyuan

Date: 24/02/2016

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline emissions
BM	Build Margin
CAR	Corrective Action Request
CCSC	China Classification Society Certification Company
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification request
CM	Combined Margin
CO ₂ e	Carbon Dioxide Equivalent
DOE	Designated operational entity
DNA	Designated National Authority
EB	Executive Board
EF	Emission factor
ER	Emission reductions
ETN	Electricity Transaction Notes
FAR	Forward action request
GHG	Greenhouse gas(es)
IPCC	Intergovernmental Panel on Climate Change
LE	Leakage emissions
MERs	Monthly electricity reports
MP	Monitoring Plan
MR	Monitoring report
MW/MWh	Megawatt / Megawatt hour
NCV	Net Calorific Value
OM	Operating Margin
PCP	Project Cycle Procedure
PDD	Project Design Document
PE	Project emissions
PO	Project owner
PP	Project Participant
PPA	Power Purchase Agreement
PS	Project Standard
S/N	Serial Number
tCO ₂ e	Tonne of carbon dioxide equivalent
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers

CCS 认证公司

Appendix 9

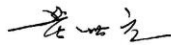
CERTIFICATE OF COMPETENCE

Date of issue: 16/10/2015

Mr. Li Xingtong

Has been qualified in accordance with *CDM Personnel Competence Requirements and Professional Competence Evaluation Instructions* (CDMI0301) as

- CDM validator for Technical Area(s): TA1.1/TA1.2/TA3.1/TA9.2
- CDM verifier for Technical Area(s): TA1.1/TA1.2/TA3.1/TA9.2
- ☐ Technical expert for Technical Area(s): _____



Huang ShiYuan
CCSC General Manager

CCS 认证公司

Appendix 9

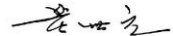
CERTIFICATE OF COMPETENCE

Date of issue: 16/10/2015

Mr. Yong Hanlin

Has been qualified in accordance with *CDM Personnel Competence Requirements and Professional Competence Evaluation Instructions* (CDMI0301) as

- CDM validator for Technical Area(s): TA1.1/TA1.2/TA8.1/TA10.1
- CDM verifier for Technical Area(s): TA1.1/TA1.2/TA8.1/TA10.1
- ☐ Technical expert for Technical Area(s): _____



Huang ShiYuan
CCSC General Manager

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	National Bio Energy Co., Ltd.	Monitoring Report Version 01	10/11/2015	PP
2.	National Bio Energy Co., Ltd.	Final monitoring report Version 02	11/12/2015	PP
3.	National Bio Energy Co., Ltd.	Emission reductions calculation spreadsheet Version 02	11/12/2015	PP
4.	National Bio Energy Co., Ltd.	Diagram of power connection system of the Project	/	PP
5.	National Bio Energy Co., Ltd. Grid company	Signed Power Purchase Agreement (PPA) with grid company whose validity periods cover this monitoring period	/	PP
6.	National Bio Energy Co., Ltd.	Implementation log of the Project	/	PP
7.	National Bio Energy Co., Ltd.	Operation log of the Project	/	PP
8.	National Bio Energy Co., Ltd.	Nameplates of the turbine, generator and boiler	/	PP
9.	National Bio Energy Co., Ltd.	Nameplates of the monitoring equipments	/	PP
10.	National Bio Energy Co., Ltd.	Meter reading records of the Project	/	PP
11.	Grid company	Electricity sales receipts	/	PP
12.	Grid company	Statement from the grid company that there was no electricity consumed in these stations in this monitoring period.	Sep. 2015	PP
13.	National Bio Energy Co., Ltd.	Purchase records, invoices and inventory records of biomass residues	/	PP
14.	National Bio Energy Co., Ltd.	Biomass Residue Sales Receipts issued by the PP to the supplier	/	PP
15.	National Bio Energy Co., Ltd.	Moisture content measurement reports of biomass	/	PP
16.	Shandong Taishan Institute of Mineral Resource Detection	NCV measurement reports of biomass	/	PP
17.	National Bio Energy Co., Ltd.	Local map showing the biomass fuel supply sites and the Project site	/	PP
18.	National Bio Energy Co., Ltd.	Diesel Purchase Receipts of diesel	/	PP
19.	National Bio Energy Co., Ltd.	Diesel usage record and stock change records	/	PP
20.	National Bio Energy Co., Ltd.	Annual Energy Balance of the Project during the monitoring period	/	PP
21.	Local government	Survey results of available and utilized biomass in Gaotang, covering this monitoring period	/	PP
22.	IPCC	IPCC 1996 and 2006	/	Others
23.	National Bureau of	China Energy Statistical Yearbook	/	Others

	Statistics Of China	2015		
24.	Industry standard	DL/T 448-2000 Technical Administrative Code of Electric Energy Metering	/	Others
25.	Industry standard	JJG 596-1999 Verification Regulation of Electrical Energy Meter with Electronics	/	Others
26.	Industry standard	GB19147-2013 National standard of automobile diesel fuel	/	Others
27.	Industry standard	GB/T 211-2007 National standard of determination of total moisture in coal	/	Others
28.	Industry standard	JJG539-1997 Verification regulation of digital indicating weighing instruments	/	Others
29.	Industry standard	JJG1036-2008 Verification regulation of electronic balances	/	Others
30.	Industry standard	JJG443-2006 Verification Regulation of Fuel Dispensers	/	Others
31.	Gaotang Power Company Electric Energy Measurement Centre	Calibration reports of the electricity meters	/	PP
32.	Liaocheng Metrology Testing Institute	Calibration reports of the electric truck scales	/	PP
33.	Gaotang Metrology Testing Institute	Calibration reports of the moisture analyzer	/	PP
34.	Liaocheng Metrology Testing Institute	Calibration reports of the flow meter	/	PP
35.	Shandong Province Administration of Quality and Technology Supervision	Certificate of metrological authorization to Gaotang Power Company Electric Energy Measurement Centre, authorized by Shandong Province Administration of Quality and Technology Supervision, (Lu)FaJi(2012)D095	Valid from 01/01/2012 to 31/12/2015	PP
36.	Shandong Province Administration of Quality and Technology Supervision	Certificate of metrological authorization to Gaotang Metrology Testing Institute, authorized by Shandong Province Administration of Quality and Technology Supervision, (Lu)FaJi(2009)372502	Valid from 01/12/2009 to 30/11/2014	PP
37.	China National Accreditation Service for Conformity Assessment	Certificate of metrological authorization to Gaotang Metrology Testing Institute, authorized by Shandong Province Administration of Quality and Technology Supervision, CNAS L2921	Valid from 21/05/2012 to 20/05/2015	PP
38.	Shandong Province Administration of Quality and Technology Supervision	Certificate of metrological authorization to Liaocheng Metrology Testing Institute, authorized by Shandong Province Administration of Quality and Technology Supervision, (Lu)Faji(2013)37013	Valid from 07/08/2013 to 06/08/2018	PP
39.	China National Accreditation Service for Conformity Assessment	Certification of the organization measuring the NCV of biomass residue, Shandong Taishan Institute of Mineral Resource Detection, CNAS L0745	Valid from 20/11/2012 to 19/11/2015	PP

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40.	National Bio Energy Co., Ltd.	CDM Monitoring & Management Manual	/	PP
41.	National Bio Energy Co., Ltd.	Internal Training Records and Qualification Certificate of Operation Staff	/	PP
42.	National Bio Energy Co., Ltd.	Accepted revised PDD Version 07	02/10/2011	PP
43.	TUV SUD	Validation report Version 2	07/12/2015	Others
44.	SGS	Validation opinion for the changes from the PDD	19/10/2011	Others
45.	National Bio Energy Co., Ltd.	Previous monitoring reports	/	PP
46.	Verification DOE	Previous verification reports	/	Others
47.	UNFCCC CDM-EB	Methodology ACM0006 Version 04	/	Others
48.	UNFCCC CDM-EB	Validation and verification standard Version 09.0	20/02/2015	Others
49.	UNFCCC CDM-EB	Project standard Version 09.0	20/02/2015	Others
50.	UNFCCC CDM-EB	Project cycle procedure Version 09.0	20/02/2015	Others
51.	UNFCCC CDM-EB	Monitoring report form Version 05.1	/	Others

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. Remaining FAR from validation and/or previous verification

FAR ID	N/A	Section no.	N/A	Date : N/A
Description of FAR				
N/A				
Project participant response				Date : N/A
N/A				
Documentation provided by project participant				
N/A				
DOE assessment				Date: N/A
N/A				

Table 2. CL from this verification

CL ID	CL-1	Section no.	E.3	Date : 09/12/2015
Description of CL				
It is request to include the information of overhaul during this monitoring period in the monitoring report.				
Project participant response				Date : 11/12/2015
The information of overhaul during this monitoring period has been included in the revised monitoring report.				
Documentation provided by project participant				
Revised monitoring report Version 02.				
DOE assessment				Date : 15/12/2015
The verification team has checked the revised monitoring report /2/ and the documented evidence /7/ and can confirm that the information of overhaul during this monitoring period has been included in the revised monitoring report in accordance with the evidence. The CL-1 was closed.				

Table 3. CAR from this verification

CAR ID	CAR-1	Section no.	E.1	Date : 09/12/2015
Description of CAR				
The table in the section E.4 of the monitoring report is not in compliance with the latest Version of the monitoring report form.				
Project participant response				Date : 11/12/2015
Table in section E.4 of MR has been corrected to be in compliance with the latest MR Form (Version 05.1).				
Documentation provided by project participant				
Revised monitoring report Version 02.				
DOE assessment				Date : 15/12/2015
The verification team has checked the revised monitoring report /2/ and can confirm that the revised monitoring report has been revised as per the latest MR Form (Ver.05.1). The CAR-1 was closed.				

CAR ID	CAR-2	Section no.	E.6.1	Date : 09/12/2015
Description of CAR				
The monitoring report states that GWP_{CH_4} “21 tCO ₂ e/tCH ₄ was fixed for the first commitment period” and “25 in the second commitment period”, while the value 21 tCO ₂ /tCH ₄ used in the period 26/12/2012-25/01/2013 and when calculating the $BE_{biomass,y}$, and the value 25 tCO ₂ /tCH ₄ used in the period 26/12/2012-25/01/2013 and when calculating the $PE_{EC,y}$.				
Project participant response				Date : 11/12/2015
GWP _{CH₄} of 21 tCO ₂ e/tCH ₄ was fixed for the first commitment period, and has been updated to be 25 tCO ₂ e/tCH ₄ after 31/12/2012 according to the Decision 4/CMP.7. However, the period 26/12/2012-25/01/2013 falls into the first commitment period and the second commitment period. Then 25 tCO ₂ e/tCH ₄ was adopted in the calculation of Carbon dioxide emissions from electricity consumption ($PE_{EC,y}$) in time period 26/12/2012-25/01/2013, which is conservative. 21 tCO ₂ e/tCH ₄ was adopted in calculation of Baseline emissions due to natural decay or burning of anthropogenic sources of biomass residues ($BE_{biomass,y}$) in time period 26/12/2012-25/01/2013, which is conservative.				
Documentation provided by project participant				
Revised monitoring report Version 02.				
DOE assessment				Date : 15/12/2015
The verification team can confirm that it is conservative to use the lower value of GWP_{CH_4} to calculate the baseline emissions and to use the higher value of GWP_{CH_4} to calculate the project emissions. The CAR-2 was closed.				

CAR ID	CAR-3	Section no.	E.8.1	Date : 09/12/2015
Description of CAR				
Electricity data during the period 23/02/2015-19/03/2015 is not consistent with the documented evidence.				
Project participant response				Date : 11/12/2015
Electricity data during the period 23/02/2015-19/03/2015 has been corrected according to the Meter reading records of the Project and Electricity sales receipts of the Project for the period of 23/02/2015-19/03/2015.				
Documentation provided by project participant				
Revised monitoring report Version 02 and emission reductions calculation spreadsheet Version 02.				
DOE assessment				Date : 15/12/2015
The verification team has checked the revised monitoring report Version 02 and emission reductions calculation spreadsheet Version 02 and can confirm that the electricity data during the period 23/02/2015-19/03/2015 has been corrected accordingly. The CAR-3 was closed.				

Table 4. FAR from this verification

FAR ID	N/A	Section No.	N/A	Date : N/A
Description of FAR				
N/A				
Project participant response				Date : N/A
N/A				
Documentation provided by project participant				
N/A				
DOE assessment				Date : N/A
N/A				

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
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Document Type: Form		
Business Function: Issuance		
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