



VALIDATION REPORT FOR GOLD STANDARD REGISTRATION

CARBONBAY GMBH & Co. KG
Los Santos Wind Power Project

Gold Standard ref. no.: 103000000007288

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Project:	Title:	Initial PDD Version: Initial passport Version:	Final PDD Version: Final passport Version:	
	Los Santos Wind Power Project	2012-04-23 2013-08-27	2012-04-23 2015-04-09	
Project Participant(s):	Client:			
	Carbonbay GmbH & Co. KG			
Applied methodology/ies:	Title:	No.:	Scope / TA:	
	Grid connected renewable electricity generation	AMS-I-D. version 17	1 / 1.2	
Validation team / Technical Review and Final Approval	Validation Team:	Technical review:	Final approval:	
	Raul Gonzalez Oliver Quireza Mitre; Sergio Cruz Campos	Martin Saalman, Stefan Winter	Martin Saalman	
Expected Emission reductions: [t CO₂e]	Expected annual emission reductions:			
	12,482 t CO ₂ e			
Confidential content:	<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No	
Key dates of validation:	Project Listed:	Draft Report issued:	On-site (from):	On-site (to):
	2015-02-25	2014-09-02	2014-09-01	2014-09-02
Summary of Validation Opinion:	<p>Carbonbay GmbH & Co. KG has commissioned the TÜV NORD JI/CDM Certification Program (CP) to validate the project: "Los Santos Wind Power Project" with regard to the relevant requirements of the Gold Standard requirements version 2.2, host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.</p> <p>The project has been submitted for registration already as CDM project. Hence all the UNFCCC requirements have been met as set by the Kyoto Protocol, the Marrakech Accords and relevant guidance by the CDM Executive Board and that the project furthermore meets all relevant host country criteria and correctly applies the baseline and monitoring methodology AMS-I.D., version 17. Additionally the assessment team reviewed the estimation of the projected emission reductions. It can be confirmed that the indicated amount of emission reductions of 104,538 tonnes CO₂e over a crediting period of seven years, resulting in a calculated annual average of 14,934 tonnes CO₂e represent a reasonable estimation using the assumptions given by the project documents.</p> <p>In summary, it is TÜV NORD JI/CDM Certification Program (CP)'s opinion that the project, as described in the revised Gold Standard Passport dated 2015-04-07, meets all relevant Gold Standard version 2.2 requirements for CDM projects. TÜV NORD JI/CDM Certification Program (CP) thus requests the registration of the project as a Gold Standard version 2.2 CDM project activity in the Gold Standard Registry.</p>			
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Abbreviations

BAU	Business as usual
CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
COOPESANTOS	Cooperativa de Electrificación Rural Los Santos
CO₂	Carbon dioxide
CO_{2e}	Carbon dioxide equivalent
CP	Certification Program
DNA	Designated National Authority
DOE	Designated Operational Entity
DvalR	Draft Validation Report
EB	CDM Executive Board
EIA	Environmental Impact Assessment
ER	Emission reduction
ERPA	Emission reduction purchase agreement
FAR	Forward Action Request
FSR	Feasibility Study Report
GHG	Greenhouse gas(es)
GS	Gold Standard
GSP	Gold Standard Passport
GS-TAC	Gold Standard Technical Advisory Committee
GSTK	Gold Standard Toolkit
ICE	Costa Rican Electricity Institute
IRR	Internal Rate of Return
IPCC	Intergovernmental Panel on Climate Change
LSC	Local Stakeholder Consultation
LSCR	Local Stakeholder Consultation Report
MDG	Millennium Development Goals
MINAE	Ministerio del Ambiente y Energía de Costa Rica
NGO	Non Government Organisation
OECD	Organisation for Economic Co-operation and Development
PDD	Project Design Document



PFA	Project Feasibility Assessment
QC/QA	Quality control/Quality assurance
SD	Sustainable Development
SFR	Stakeholder Feedback Round
UNDP	United nations Development Programme
UNFCCC	United Nations Framework Convention on Climate Change
VT	Validation Team
VVS	Validation and Verification Standard
WWF	World Wide Fund for Nature

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1 OBJECTIVE / SCOPE

The purpose of a validation is to have an independent third party assess the project design and compliance with the GS requirements as described in the Gold Standard documentation and supporting documents by the client.

The Gold Standard documentation and supporting documents were reviewed against the criteria as set out in the Gold Standard Requirements version 2.2, the Gold Standard Toolkit version 2.2 and respective Annexes. The findings and conclusions on the project's compliance with the Gold Standard are recorded in this document.

In particular the project's baseline, the monitoring plan (MP), the eligibility with relevant GS criteria, technology transfer, Do No Harm Assessment, contribution to Sustainable Development, compliance with GS requirements w.r.t. additionality justification, application of conservative assumptions, monitoring of sustainable development parameters, environmental impacts, stakeholder consultation requirements and the project's compliance with

- The GS Requirements;
- The GS Toolkit and its Annexes;
- GS Methodologies;
- Any other decision taken by the Technical Advisory Committee of GS;
- the requirements of Article 12 of the Kyoto Protocol, if applicable;
- the CDM modalities and procedures as agreed in the Marrakech Accords under decision 3/CMP.1, if applicable;
- the annex to the decision, if applicable;
- subsequent decisions made by COP/MOP & CDM Executive Board, if applicable; and
- other relevant rules, including the host country legislation

are validated in order to confirm that the project design as documented is sound and reasonable and meets the stated requirements and identified criteria. Validation is seen as necessary to provide assurance to stakeholders on the quality of the project and its intended generation of certified emission reductions (CERs) or Voluntary Emission Reductions (VERs).

Latest CDM requirements will be considered as far as applicable.

The validation is based on the information made available to TÜV NORD JI/CDM CP and on the contract conditions.

The validation scope is given as a thorough independent and objective assessment of the project design including especially: the correct application of the methodology,

the project's baseline study, additionality justification, sustainable development, local stakeholder commenting process, environmental impacts and monitoring plan, which are included in the PDD / GS Passport and other relevant supporting documents, to ensure that the proposed GS project activity meets all relevant and applicable GS criteria.

The information included in the PDD / GS Passport and the supporting documents were reviewed against the requirements as set out by the Gold Standard. The validation team has, based on the requirements in the Gold Standard Requirements, the Gold Standard Toolkit and the CDM Validation and Verification Standard^{/VVS/} carried out a full assessment of all evidence.

The validation is based on the information made available to TÜV NORD JI/CDM CP and on the contract conditions.

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

2 GHG PROJECT DESCRIPTION

2.1 Project Characteristics

Essential data of the project is presented in the following Table 2-1.

Table 2-1: Project Characteristics

Item	Data		
Project title	Los Santos Wind Power Project		
Project size	<input type="checkbox"/> Large Scale <input checked="" type="checkbox"/> Small Scale <input type="checkbox"/> Micro Scale		
Project Scope <i>(according to UNFCCC sectoral scope numbers for CDM)</i>	<input checked="" type="checkbox"/>	1	Energy Industries (renewable- /non-renewable sources)
	<input type="checkbox"/>	2	Energy distribution
	<input type="checkbox"/>	3	Energy demand
	<input type="checkbox"/>	4	Manufacturing industries
	<input type="checkbox"/>	5	Chemical industry
	<input type="checkbox"/>	6	Construction
	<input type="checkbox"/>	7	Transport
	<input type="checkbox"/>	8	Mining/Mineral production
	<input type="checkbox"/>	9	Metal production
	<input type="checkbox"/>	10	Fugitive emissions from fuels (solid, oil and gas)
	<input type="checkbox"/>	11	Fugitive emissions from production and consumption of halocarbons and hexafluoride
	<input type="checkbox"/>	12	Solvents use
	<input type="checkbox"/>	13	Waste handling and disposal
	<input type="checkbox"/>	14	Afforestation and Reforestation
	<input type="checkbox"/>	15	Agriculture
Applied Methodology	AMS-I-D. Ver. 17 Grid Connected renewable electricity generation		
Technical Area(s)	1.2 Energy generation from renewable energy sources		
Crediting period	<input checked="" type="checkbox"/> Renewable Crediting Period (7 y) <input type="checkbox"/> Fixed Crediting Period (10 y)		

2.2 Project Location

The details of the project location are given in table 2-2 and table 2-3:

Table 2-2: Project Location

No.	Project Location
Host Country	Costa Rica
Region:	Districts of San Isidro and San Cristobal
Project location address:	Km 40 Interamericana Sur highway. Cooperativa de Electrificación Rural Los Santos (COOPESANTOS), near the vilages of La Paz and Casamanta

Table 2-3: Geographic Coordinates of each project

Los Santos WPP WTG location per WGS-84 in Decimal Degrees		
WTG	POINT X	POINT Y
1	-83.9885898	9.789753111
2	-83.9886097	9.788363483
3	-83.9894565	9.787312364
4	-83.9947281	9.780450124
5	-83.9950511	9.77956023
6	-83.9951443	9.778594054
7	-83.9953917	9.777811965
8	-83.9957289	9.777068665
9	-83.9891239	9.776567852
10	-83.9887975	9.775685129
11	-83.9786575	9.759992632
12	-83.9790184	9.759236338
13	-83.9789441	9.755217609
14	-83.9770491	9.754077072
15	-83.9771615	9.753203467

2.3 Technical Project Description

The project consists of fifteen 850kW GAMESA wind power turbines installed in Cooperativa de Electrificación Rural Los Santos (COOPESANTOS) concession area in El Guarco and Desamparados, Costa Rica. The project requires a total investment of approximately US\$ 38 million for an installed capacity of 12.75 MW.

The project activity utilizes 15 horizontal axis GAMESA G52-850 WTGs with a rated capacity of 850 kW each. The electricity produced will be feed into the Costa Rican National grid. The turbine lifetime according to the detailed datasheets for the GAMESA G52-850 is 20 years. The project feasibility study calculated a plant load factor of 42.68% and the turbine supply contract guarantees a minimum of 42 GWh per year.

The technical key data are provided in table 2-4 below

Table 2-4: Technical data of the project activity

Parameter	Unit	Value
Operating data		
Total Power	MW	12.75
No. of turbines	-	15
Rated power	m/s	850
Cut- in wind speed	m/s	4
Rated wind speed	m/s	13
Cut-off wind speed	m/s	25
Rotor		
Type	-	3 blades, Upwind /Horizontal axis
Diameter	m	52
Rotational speed at rated power	rpm	14.6-30.8
Swept area	m ²	2,124
Gearbox		
Type	-	1 planetary stage / 2 helical stages
Ratio	1:1.74.5	1:74.5
Nominal Load	kW	850
Generator		
Type	-	Double feed generator
Speed at rated power	rpm	1,320-2,340
Rated power	kW	850
Rated voltage	V AC	960 (phase to phase)
Frequency	Hz	60

3 METHODOLOGY AND VALIDATION SEQUENCE

3.1 Validation Steps

The validation of the project consisted of the following steps:

- Contract review
- Appointment of team members and technical reviewers
- Publication of the project design document (PDD)/ GS Passport
- Desk review of the PDD/ GS Passport and supporting documents
- Validation planning
- On-Site assessment
- Background investigation related to the project design and baseline, i.e. GS Stakeholder Consultation Report, Country Law, Guidelines for Completing the Project Design Document, Approved methodology, Koyoto Protocol
- Follow-up interviews with personnel of the project developer and its contractors
- Draft validation reporting
- Resolution of corrective actions (if any)
- Final validation reporting
- Technical review
- Final approval of the validation

3.2 Contract review

To assure that

- the project falls within the scopes for which accreditation is held,
- the necessary competences to carry out the validation can be provided,
- Impartiality issues are clear and in line with the CDM accreditation requirements

a contract review was carried out before the contract was signed.

3.3 Appointment of team members and technical reviewers

On the basis of a competence analysis and individual availabilities, a validation team, consisting of one team leader and 2 additional team members, as well as the Technical Review personnel were appointed.

The list of involved personnel, the tasks assigned and the qualification status are summarized in the table 3-1 below.

Table 3-1: Involved Personnel

	Name	Company	Function ¹⁾	Qualification Status ²⁾	Scheme competence ³⁾	Technical competence ⁴⁾	Verification competence ⁵⁾	Host country Competence	On-site visit
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Raul Gonzalez Mitre	BRTUV	TL	SA	<input checked="" type="checkbox"/>	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Oliver Quireza Campos	BRTUV	TM	A	<input checked="" type="checkbox"/>	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Sergio Cruz	BRTUV	TM	SA	<input checked="" type="checkbox"/>	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Stefan Winter	TUV NORD CERT	TR ^{B)}	SA	<input checked="" type="checkbox"/>	1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Martin Saalman	TUV NORD CERT	TR/ FA ^{B)}	SA	<input checked="" type="checkbox"/>	1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

¹⁾ TL: Team Leader; TM: Team Member, TR: Technical review; OT: Observer-Team, OR: Observer-TR; FA: Final approval

²⁾ GHG Auditor Status: A: Assessor; LA: Lead Assessor; SA: Senior Assessor; T: Trainee; TE: Technical Expert

³⁾ GHG auditor status (at least Assessor)

⁴⁾ As per S01-MU03 or S01-VA070-A2 (such as 1.1, 1.2, ...)

⁵⁾ In case of verification projects

A) Team Member: GHG auditor (at least Assessor status), Technical Expert (incl. Host Country Expert or Verification Expert), not ETE

B) No team member

Team Leader contributed to the review of documents, the assessment of the project activity and to the preparation of this report.

All team members contributed to the assessment of special aspects of the project activity, e.g. technical or host country aspects.

Statements of competence for the above mentioned team members are enclosed in annex 2 of this report.

3.4 Validation Protocol

In order to ensure consideration of all relevant assessment criteria, a validation protocol is used. The protocol shows, in a transparent manner, criteria and requirements, means of validation and the results from pre-validating the identified criteria. The validation protocol reflects the generic CDM / GS requirements each project has to meet as well as project specific issues as applicable. The validation protocol serves the following purposes:

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

The validation protocol is described in Figure 1.

Validation Protocol Table A-1: Requirement checklist				
Checklist Item	Validation Team Comment	Reference	Draft Conclusion	Final Conclusion
<i>The checklist items in Table A-1 are linked to the various requirements the project should meet. The checklist is organised in various sections. Each section is then further sub-divided as per the requirements of the topic and the individual project activity.</i>	<i>The section is used to elaborate and discuss the checklist item in detail. It includes the assessment of the validation team and how the assessment was carried out. The reporting requirements of the VVS and GS requirements shall be covered in this section.</i>	<i>Gives reference to the information source on which the assessment is based on</i>	<i>Assessment based on evidence provided if the criterion is fulfilled (OK), or a CAR, CL or FAR (see below) is raised. The assessment refers to the draft validation stage.</i>	<i>In case a corrective action or a clarification the final assessment at the final validation stage is given.</i>

Figure 1: Validation protocol table

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

3.5 Review of Documents

The Project Design Document (CDM PDD), CDM Validation Report, Country Law, Approved methodology, Kyoto Protocol, Clarifications on Validation Requirements, GSP and supporting background documents related to the project design and baseline were reviewed.

Furthermore, the validation 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.

3.6 Site Visit and Follow-up Interviews

The validation team has carried out a site visit 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 / GS.

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 3-2.

Table 3-2: Interviewed persons and interview topics

Interviewed Persons / Entities	Interview topics
Personnel from COOPESANTOS, Consultant Anaconda Carbon, Stakeholders from the communities: La Paz, Palmital Sur and San Cristobal.	<ul style="list-style-type: none"> • Chronological description of the project activity with documents of key steps of the implementation. • Current status of plant design • Technical details of the project realization, project feasibility, designing, operational life time, monitoring of the project • Environmentally safe and sound technology to be employed by the proposed project activity • Host Government Approval • Approval procedures and status • Monitoring and measurement equipment and system. • Financial aspects • Crediting period • Project activity starting date • CER allocation / ownership • Baseline study assumptions • Additionality • Sustainable development issues • Monitoring • Stakeholder Consultation Meeting and feedback • Analysis of local stakeholder consultation • Roles & responsibilities of the project participants w.r.t. project management, monitoring and reporting • National Legislation • Environmental Acceptance Approval • Editorial issues of the passport • Social and environmental impact of the project

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

3.7 Project comparison

The validation team has compared the proposed CDM/ GS project activity with similar projects or technology that have similar or comparable characteristics and with similar projects in the host country in order to achieve additional information esp. regarding:

- Project technology
- Additionality issues
- Reasons for reviews, requests for reviews and rejections within the CDM/GS registration process.

3.8 Resolution of Clarification and Corrective Action Requests

3.8.1 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 project with certain characteristics have not been met or
- there is a risk that the project would not be registered by the Gold Standard or that emission reductions would not be able to be verified and certified.

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

A **Forward Action Request (FAR)** will be issued when certain issues related to project implementation should be reviewed during the first verification.

3.8.2 Draft Validation

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

3.8.3 Final Validation

The final validation starts after issuance of the proposed corrective action (CA) of the CARs, CLs and FARs by the project proponent. The project proponent has to reply on those and the requests are “closed out” by the validation team in case the response is assessed as sufficient. In case of raised FARs the project proponent has to respond on this, identifying the necessary actions to ensure that the topics raised

in this finding are likely to be resolved at the latest during the first verification. The validation team has to assess whether the proposed action is adequate or not.

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 validation opinion can be issued by the validation team.

The CAR(s) / CL(s) / FAR(s) are documented in chapter 4.

3.9 Technical review

Before submission of the final validation report a technical review of the whole validation procedure 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 validation team and thus not involved in the decision making process up to the technical review.

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

3.10 Final approval

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

Only after this step the request for registration can be started (in case of a positive validation opinion).

4 VALIDATION FINDINGS

In the following table the findings from the desk review of the published PDD, visits, interviews and supporting documents are summarised:

Table 4-1: Summary of CARs, CLs and FARs issued

Validation topic ¹⁾	No. of CAR	No. of CL	No. of FAR
Project Title (A)	0	0	0
Description of project activity (B):	0	0	0
Proof of project eligibility (C)	0	0	0
Environmental impacts (D)	0	0	0
Local Stakeholder Consultation (E)	0	0	0
Outcome Sustainability assessment (F)	3	1	0
Sustainability Monitoring Plan (G)	3	0	0
Additionality and conservativeness (H)	0	0	0
Annexes (X)	1	0	0
SUM	7	1	0

¹⁾ The letters in brackets refer to the validation protocol

The following tables include all raised CARs, CLs and FARs. For an in depth evaluation of all validation items it should be referred to the validation protocols (see Annex 1).

The findings of validation process are summarized in the tables below.

Finding	CAR F1		
Classification	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR

Finding	CAR F1						
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<ol style="list-style-type: none"> The description of relevance on the safeguarding principle No. 11 "not complicity in corruption" is missing in the passport. The issues "Shadow Flicker" and "Electromagnetic interference and radiation (EMI)", required as per Sustainable Development Checklist for Wind projects, GS Annex G and as required in the pre-feasibility assessment from the GS, are missing in Passport and LSC report. <p>Related question F.1.4.</p>						
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details. In case the MR is changed as part of the CA, the PP is requested to indicate the revised sections as well as the new version No.</i>	<ol style="list-style-type: none"> Do not harm assessment table was corrected. Please notice many changes were made along the table. Changes in: Annex Q – LSC Report Template section D, new version 2 Annex R – Passport Template section F, new version 2 Both issues were assessed accordingly in the LSC report, version 3, sections D.1.ii, D.2 and D.3; and in the Passport, version 3, section F.2, any change in the Sustainability Monitoring Plan due to the inclusion of both issues was needed. <table border="1"> <tr> <td><input type="checkbox"/> Changes in MR</td><td>Section(s):</td><td>New version No.:</td></tr> <tr> <td><input type="checkbox"/> Changes in XLS</td><td>Worksheet(s):</td><td>New version No.:</td></tr> </table>	<input type="checkbox"/> Changes in MR	Section(s):	New version No.:	<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Changes in MR	Section(s):	New version No.:					
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:					
DOE Assessment #1 <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>	<ol style="list-style-type: none"> The inclusion and assessment of the safeguarding principle "not complicity in corruption" is in line with the Passport template and guideline. The included issues have been evaluated against the comments from the stakeholders and it can be confirmed that such issues are not applicable to the project. 						
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the next periodic verification <input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed						

Finding	CL F1
Classification	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>Some environmental parameters are considered by the project proponents to be monitored, nonetheless they are missing in the SD matrix and clarification is missing regarding the relevance of these parameters in the GS-Passport and the decision to include them in the monitoring plan. These include:</p> <ul style="list-style-type: none"> - environmental noise generated by the WTG. - Reforestation, maintenance of roads and water paths management and recovering of green areas with vegetation. <p>Related question F.2.3.</p>

Finding	CL F1
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details. In case the MR is changed as part of the CA, the PP is requested to indicate the revised sections as well as the new version No.</i>	Do not harm assessment, SD Matrix tables and SD Monitoring Plan were corrected and are now consistent. Changes in: Annex Q – LSC Report Template section D, new version 2 Annex R – Passport Template section F, new version 2 <input type="checkbox"/> Changes in MR Section(s): New version No.: <input type="checkbox"/> Changes in XLS Worksheet(s): New version No.:
DOE Assessment #1 <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 analysis of the 2 parameters has been included in the Passport and is in line with the template and guideline to fulfill the Passport.
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the next periodic verification <input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed

Finding	CAR F2
Classification	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Refer to SD Matrix: 1. It is not clear whether all mitigation measures included for the indicator biodiversity will be monitored during the whole crediting period. 2. The chosen parameter for the indicator "Soil condition" is no correct according with the guidance GS-Annex I as the selected parameter does not refer to soil pollution or erosion. 3. The selected mitigation measure "number of contracts" for the indicator "Livelihood of the poor" is not in line with the guidance provided in Annex I of the GS. 4. The chosen mitigation measure "Total electricity generated" is not a mitigation measure and the chosen parameter "The power plant is managed under a rural electrification cooperative" is not a parameter according with Annex I of GS. 5. Is not clear whether the mitigation measures and chosen parameter for the indicator "Human and Institutional capacity" is relevant for the whole crediting period or just prior construction. 6. The second paragraph for the indicator "Technology transfer and technological self-reliance" does not refer to a mitigation measure. Furthermore the chosen parameter "Number of contracts" is not line with the Annex I of GS.

Finding	CAR F2		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details. In case the MR is changed as part of the CA, the PP is requested to indicate the revised sections as well as the new version No.</i>	<div>1. Biodiversity: parameters were corrected and information now is clear, SD Matrix and monitoring are now consistent</div> <div>2. Soil condition: assessment was changed following the mentioned Annex I. Please refer to indicator other pollutants.</div> <div>3. Livelihood of the poor: assessment was changed in order to be consistent to Annex I. Please refer to indicator quantitative employment ...</div> <div>4. Changes were addressed, wording was corrected and parameter to measure clean energy is now included in the indicator: access to affordable ...</div> <div>5. Wording in the indicator Human and institutional capacity was corrected since any impact was identified. Initially in the Passport, workshops were indicated as part of COOPESANTOS communal activities, however then it was clear that such meetings and workshops have had the aim to act as Stakeholders meetings for CDM registration proposes. Further assessment on this indicator shows that impacts are neutral. The actual text is now consistent to real activities.</div> <div>6. Wording in the indicator Technology transfer and technological self-reliance was corrected since any impact was identified. Initially in the Passport, mitigation measures were wrongly identified, further assessment on this indicator shows that impacts are neutral. The actual text is now consistent to real activities.</div>		
	Changes in:		
	Annex Q – LSC Report Template section D, new version 2		
	Annex R – Passport Template section F, new version 2		
	<input type="checkbox"/>	Changes in MR	Section(s):
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:
DOE Assessment #1 <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>	<div>1. The frequency of the monitoring measures is clear and no discrepancies are observed between the SD Matrix and the sustainable mentoring plan.</div> <div>2. The parameter soil condition has been assessed as per Annex I.</div> <div>3. The selected parameter "Quantitative employment does not correspond to the indicator "Livelihood of the Poor". Correction is requested.</div> <div>4. The parameter included "Plant Load Factor" has been assessed as per Annex I.</div> <div>5. It is not clear in the "Corrective Action" of this table what has been done with the indicator Human and Institutional capacity.</div> <div>6. It is not clear in the "Corrective Action" of this table what has been done with the indicator Technology transfer and technological self-reliance.</div>		

Finding	CAR F2
Corrective Action #2 <i>This section shall be filled by the PP. It shall address the corrective action taken in details. In case the MR is changed as part of the CA, the PP is requested to indicate the revised sections as well as the new version No.</i>	<p>3. The wording in the indicator: "Livelihood of the poor" was changed, since the mitigation measure was wrongly identified, as the DOE noticed. Then the identified mitigation measure (number of contracts) was related to the indicator: "Quantitative employment and income generation" as chosen parameter. Please refer to Annex Q – LSC Report Template to see track changes under section D.3</p> <p>5. Further explanation was provided, please refer to Annex Q – LSC Report Template to see track changes under section D.3 (corresponding to the mentioned SD Matrix in the passport)</p> <p>6. Further explanation was provided, please refer to Annex Q – LSC Report Template to see track changes under section D.3 (corresponding to the mentioned SD Matrix in the passport)</p>
DOE Assessment #2 <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>3. The classification parameter "number of contracts" has been classified correctly according to the indicator "Quantitative employment and income generation".</p> <p>5. As the indicator "Human and Institutional capacity" has not been applied anymore there are not further activities related to this indicator.</p> <p>6. As the indicator Technology transfer and technological self-reliance " is not applied anymore, there are not further activities related to this indicator.</p>
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the next periodic verification <input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed

Finding	CAR F3								
Classification	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR						
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The indicators included in the SD Matrix are not classified in the three categories according with the guidance provided in the Annex I.								
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details. In case the MR is changed as part of the CA, the PP is requested to indicate the revised sections as well as the new version No.</i>	All tables related to SD Matrix are corrected to include the three categories. Also the do no harm assessment table includes the related categories according to the GS toolkit Changes in: Annex Q – LSC Report Template section D, new version 2 Annex R – Passport Template section F, new version 2 <table><tr><td><input type="checkbox"/> Changes in MR</td><td>Section(s):</td><td>New version No.:</td></tr><tr><td><input type="checkbox"/> Changes in XLS</td><td>Worksheet(s):</td><td>New version No.:</td></tr></table>			<input type="checkbox"/> Changes in MR	Section(s):	New version No.:	<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Changes in MR	Section(s):	New version No.:							
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:							
DOE Assessment #1 <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 indicators included in the SD Matrix are classified as per guidance Annex-I.								

Finding	CAR F3
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the next periodic verification <input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed

Finding	CAR G1								
Classification	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR						
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The following non-neutral indicators have not been included in the MP according with the guidance GS Toolkit VII.d.2.: Soil Condition Human and institutional capacity Access to affordable and clean energy services Human and institutional capacity. Technology transfer and technological self-reliance								
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details. In case the MR is changed as part of the CA, the PP is requested to indicate the revised sections as well as the new version No.</i>	Corrections were made along the documents to address consistency between different tables, please notice that all the non-neutral scored indicators will be monitored. In the initial assessment reflected in version 1 of the GS Passport, some impacts were not correctly identified (some of them initially were non-neutral as indicated by the DOE), however the Passport underwent further assessment and changes were addressed to actually reflect the impacts of the project under the different indicators. As a result, Monitoring Parameters were changed to address consistency, this way, some of the initially non-neutral indicators changed to neutral, for instance: soil condition, human and institutional capacity, human and institutional capacity and technology transfer and technological self-reliance. Changes in: Annex Q – LSC Report Template section D, new version 2 Annex R – Passport Template section F, new version 2 <table><tr><td><input type="checkbox"/> Changes in MR</td><td>Section(s):</td><td>New version No.:</td></tr><tr><td><input type="checkbox"/> Changes in XLS</td><td>Worksheet(s):</td><td>New version No.:</td></tr></table>			<input type="checkbox"/> Changes in MR	Section(s):	New version No.:	<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Changes in MR	Section(s):	New version No.:							
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:							
DOE Assessment #1 <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 corrections in the LSC and Passport are in line with the guidance GS Toolkit VII.d.2.								
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the next periodic verification <input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed								

Finding	CAR G2		
Classification	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The description of "Current situation of parameter" for indicators 1 and 2 is not correct as it does not refer to the baseline situation.		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details. In case the MR is changed as part of the CA, the PP is requested to indicate the revised sections as well as the new version No.</i>	Please notice that parameters changed and requested correction was done. Annex R – Passport Template section G, new version 2		
	<input type="checkbox"/> Changes in MR	Section(s):	New version No.:
	<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
DOE Assessment #1 <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 description of the "current situation of parameter" is in line with the form for Passport fulfilling.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the next periodic verification <input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed		

Finding	CAR G3		
Classification	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>The chosen parameter related to the parameter No. 1 does not mention the sub-contractors for maintenance and security services, which are relevant for the project according with the interviews of personnel's project.</p> <p>Furthermore the "Future target for parameter" is not in line with the real reference target, as the level of salaries is not been compared with the local average but with the minimum salary.</p>		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details. In case the MR is changed as part of the CA, the PP is requested to indicate the revised sections as well as the new version No.</i>	<p>In the new version of the Passport, v.2.1, parameter No. 1 changed into parameter No. 9; asked corrections were made under this parameter. Indirect jobs (sub-contractors) are now part of the monitoring.</p> <p>Annex R – Passport Template section G, new version 2</p>		
	<input type="checkbox"/> Changes in MR	Section(s):	New version No.:
	<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
DOE Assessment #1 <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 corrected Passport has included the sub-contractors which are relevant for the project. Furthermore the error in the level of salary is in line with the interviews performed during the site visit.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the next periodic verification <input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed		

Finding	CAR X1		
Classification	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The signed ODA form has not been provided by the PP.		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details. In case the MR is changed as part of the CA, the PP is requested to indicate the revised sections as well as the new version No.</i>	The signed ODA has been provided.		
	<input type="checkbox"/> Changes in MR	Section(s):	New version No.:
	<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
DOE Assessment #1 <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 provided ODA was done according to the GS guidelines.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the next periodic verification <input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed		

5 VALIDATION ASSESSMENT SUMMARY

5.1 General Description of the GHG Project Activity

5.1.1 Technology to be employed

The project activity is a grid connected renewable electricity project using wind turbine generators (WTG). The main equipments apart of the WTG, includes transformers. The project meets all relevant participation requirements in CDM. According to the PDD^{PDD/} and GS Passport^{GSP/}, the total installed capacity of the wind farm project is 12.75 MW. All of the electricity generated will be delivered to the power grid.

The electricity generated from the project activity is expected to substitute the power supplied from Costa Rica national grid, which is mainly composed of thermal power plants.

The main greenhouse gas (GHG) emission will be CO₂ emissions from electricity generation in fossil fuel fired plants that will be displaced due to the project activity, in which CO₂ is one of the GHG that are eligible under the Gold Standard. The expected average GHG emission reductions of the project activity is 12,482 tCO₂e annually during the first 7-years of renewable crediting period.

The project also improves air quality and local livelihoods and promotes sustainable renewable energy industry development. It creates local employment opportunity during the assembly and installation of the WTG's, and permanent jobs for the operation of the wind plant.

The project is already registered as CDM project (UNFCCC ref. no. 6275) on 2012-06-11 with approved CDM methodology AMS-I.D. version 17.

Since the project applies for Gold Standard registration after the start date of the project, the PP applies for Gold Standard under the retroactive requirements. The project was listed by Gold Standard on 2015-02-25. The project activity fits in Renewable Energy Supply category. Thus the type of project activity is eligible for the Gold Standard.

Furthermore, the project proponent applies for 'fast-track' process for retroactive projects in line with the eligibility criteria stated in Gold Standard Annex P.

The project is a Small Scale large-scale wind power activity with an installed capacity of 12.75 MW.

5.2 Project Baseline

5.2.1 Application of the Methodology

According to the registered CDM PDD^{/CDM-PDD/}, the project applies UNFCCC methodology AMS-I.D. Grid Connected renewable electricity generation version 17. The date of the application for a pre-feasibility assessment of the project activity was on 2014-09-18, thus it followed the GS Requirement III.f.1 in which the most recent version of the methodology available at the time of first submission of the project activity for Gold Standard is correctly applied.

According to the registered PDD, applicability criteria for the applied baseline methodology AMS-ID version 17.0 are fully met by the project activity as described below:

1. The project is a newly built grid-connected wind farm project;
2. The project utilizes wind resource to generate electricity, it belongs to renewable energy utilization;
3. The installed capacity of the project is 12.75 MW.

All the applicability criteria has been checked and confirmed through checking the FSR of the proposed project and via on-site investigation. Hence, it can be concluded that the project is applicable to the methodology.

The approved tool "Tool to calculate the emission factor for an electricity system" (Version 04) was also employed for the calculation of emission factor.

5.2.2 Project Boundary

As stated in the CDM Methodology AMS ID version 17 and the registered CDM PDD^{/CDM-PDD/}, the project boundary encompasses the physical, geographical site of the renewable generation source.

The CDM PDD has been checked as in line with the Methodology AMS ID. The project boundary is confirmed during the on-site investigation and via checking the official data sources for Grid Emission Factor (Costa Rican National Grid).

The electricity generated by the project is delivered to Costa Rican National Grid. Therefore, the physical, geographical site of the project and the Costa Rican National Grid are also defined as the project boundary.

All sources and GHGs required by the methodology have been included within the project boundary. Justification of choices is sufficient.

5.2.3 Baseline Identification

As prescribed in AMS ID, the baseline for wind farms is the product of electrical energy expressed in kWh of electricity produced by the renewable generating unit multiplied by an emission factor (measured in tCO₂e/MWh) of the grid as reflected in

the combined margin (CM) calculations described in the latest “Tool to calculate the emission factor for an electricity system, version 4”. The latest data published on were used for OM and BM calculation

The grid emission factor was determined ex-ante and estimated as a combined margin emission factor ($EF_{grid,CM,y}$). As requested in the pre-feasibility assessment the $EF_{grid,CM,y}$ for GS was calculated with data from different vintage than the $EF_{grid,CM,y}$ for the CDM as follow:

CDM EF = 0.35559 TCO2/MWh - Vintage 2007 - 2009

GS EF = 0.2972 TCO2/MWh - Vintage 2011- 2013

Considering an annual power generation of 42,000 MWh from the registered CDM PDD the annual ER for GS are 12,482 tCO₂ totalizing 87,376 tCO₂ for the whole GS period of 7 years.

As per Pre-Feasibility Assessment the project is allowed to claim retroactive emission reductions.

As the project has been registered as CDM the validation team confirms that the most conservative baseline scenario is selected, and the methodology that results in lowest baseline emissions is used. The validation team also checked the assumption statements, calculation procedures and parameters applied from the reference documents in the estimation of baseline emissions.

The information is verifiably presented in the CDM-PDD with a sufficient degree of detail and transparency, so that the estimation of baseline emissions can be reproduced as indicated in the validation report. The validation team checked that full transparency is applied with regard to the selected data based on the prerogative of conservativeness.

5.2.4 Algorithms and formulae used to determine emission reductions

Methodologies for calculating emission reductions were documented. The project intends to reduce CO₂ emissions by generating electricity power, which will be exported to the Costa Rican grid. The ERs are calculated as per methodology AMS ID version 17 as follow:

$$ER_y = BE_y - PE_y - LE_y$$

Hence, all the assumptions and parameters used in the CDM PDD and CDM validation report follow a transparent and conservative approach.

5.3 Additionality Determination

5.3.1 Project Type Eligibility Screen

The proposed project uses a renewable energy technology, namely wind energy. This project adopts an ecologically sound electricity generation technology and the emission reductions to replacement of electricity generated by grid connected fossil fuel-fired power plants count towards the project's overall emission reductions. Hence, the project is eligible under the Gold Standard.

5.3.2 ODA Additionality Screen

The validation team does not reveal any information indicating that the project can be seen as a diversion of official development assistance (ODA) towards Costa Rica. As requested in the pre-feasibility assessment an ODA declaration is presented in the Annex 1 of the Gold Standard Passport based on the ODA Declaration Template in the Annex D of Toolkit version 2.2, in which the project developer has declared the project's non-use of ODA.

The project participant also confirmed that there is still no cap and trade scheme implemented in Costa Rica, thus there is no arrangement for the allowances for any cap and trade scheme. According to the GS Toolkit Section 3.5.1, the validation team considers that the project is eligible for GS-CDM project.

5.3.3 Public announcement

The validation team was able to verify that there was no public announcement of the project going ahead without CDM. The validation report^{VR/} indicated the CDM funds were a key element towards making the project financially attractive. It was confirmed that incentive from CDM was seriously considered during the design period of the project.

5.3.4 Alternatives

The baseline scenario has been defined in the methodology AMS-I.D. (Ver.17.0).

The project is registered as CDM project. Additionality assessment is performed according to the Attachment A of Appendix B of the Simplified Modalities and Procedures for the Small-Scale CDM Project Activities approved by UNFCCC. Details are available in registered CDM-PDD version 3.6, dated on 2012-04-24. The validation team confirms that the guidelines and tools applied for the demonstration of additionality are correct.

5.3.5 Investment analysis

The project is registered as CDM project. Additionality assessment is performed according to the Attachment A of Appendix B of the Simplified Modalities and Procedures for the Small-Scale CDM Project Activities approved by UNFCCC. Details are available in registered CDM-PDD version 3.6, dated on 2012-04-24. The validation team confirms that the guidelines and tools applied for the demonstration of additionality are correct.

5.3.6 Barrier analysis

The project is registered as CDM project. Additionality assessment is performed according to the Attachment A of Appendix B of the Simplified Modalities and Procedures for the Small-Scale CDM Project Activities approved by UNFCCC. Details are available in registered CDM-PDD version 3.6, dated on 2012-04-24. The validation team confirms that the guidelines and tools applied for the demonstration of additionality are correct.

5.3.7 Common practice analysis

The project is registered as CDM project. Additionality assessment is performed according to the Attachment A of Appendix B of the Simplified Modalities and Procedures for the Small-Scale CDM Project Activities approved by UNFCCC. Details are available in registered CDM-PDD version 3.6, dated on 2012-04-24. The validation team confirms that the guidelines and tools applied for the demonstration of additionality are correct.

5.4 Monitoring Plan

Emission Reductions monitoring parameters:

The proposed project correctly applied the monitoring methodology AMS-I-D. Ver. 17.

The project is registered as CDM project. Additionality assessment is performed according to the Attachment A of Appendix B of the Simplified Modalities and Procedures for the Small-Scale CDM Project Activities approved by UNFCCC. Details are available in registered CDM-PDD version 3.6, dated on 2012-04-24. The validation team confirms that the guidelines and tools applied for the demonstration of additionality are correct.

The CDM monitoring plan elaborated in the PDD is found conforming with the approved methodology and in a complete and transparent manner. The emission

factor is determined *ex-ante* based on the most recent information available. Therefore only net electricity generated (EG_y) will be monitored.

Sustainable Development monitoring parameters:

During the LSC the PP performed the "Do no harm" assessment and the sustainable development matrix. After the analysis of the relevant issues the PP defined a consolidated sustainable development matrix which contains the following 9 parameters to be monitored:

1. Solid/liquid wastes from the operation of the wind power plant
2. Noise
3. Roads conditions
4. Bird mortality
5. Reforestation and vegetation
6. Training of staff
7. Occupational health and safety
8. Plant Load Factor
9. Number of contracts

The DOE hereby confirms that the monitoring plan complies with the requirements of the Gold Standard version 2.2. DOE has validated the monitoring plan in section G of the Gold Standard Passport and confirms that the monitoring plan contains all necessary parameters of the proposed project that are clearly described and that the means of monitoring described in the plan complies with the requirements of Gold Standard Passport version 2.2 and the result of outcome sustainability assessment that provided in section F of the Gold Standard Passport (Do no harm assessment in section F.1 and Sustainable development matrix in section F.2).

5.5 Sustainable Development

‘Do no harm’ assessment

‘Do no harm’ assessment was carried out by the project proponent as indicated in the GS Passport. According to the GS Toolkit Section 2.2, the “Do no harm” assessment is based on the safeguarding principles of the UNDP in four aspects: Human Rights, Labour Standards, Environmental Protection and Anti-Corruption. The potential risks alongside the safeguarding principles are listed in the Section F of the GS Passport. The “Do no harm” assessment is carried out according to the relevance to the project activity, such as labour force, construction work safety and environmental habitat etc. Various documents such as approval of FSR^{/FSR/}, approval of EIA report^{/AEIA/} and relevant national law regulations^{/LR/} were referenced and checked. The validation team considers the “Do no harm” assessment has been based on the accurate information and the reference sources are included in the GS Passport.

The validation team considers the "Do no harm" assessment has been based on the accurate local situation and the corresponding mitigation measures are included in the GS Passport. It is analysed in the GS Passport that it would create low risks of relevance to the project activity in all aspects of "Do no harm" assessment. The validation team also considers that no mitigation measures are required for the project activity.

Sustainable development assessment matrix

The following three components are assessed to indicate whether the proposed project complies with the requirements of the GS in terms of sustainable development: local/global environment sustainability, social sustainability and development and economic and technological development and the project's performance has been assessed using the scoring system as follows:

- -: negative impacts
- 0: no, or negligible impacts, i.e. there is no impact or the impact is considered insignificant to stakeholders
- + positive impacts

As per GS guidance Annex G and pre-feasibility assessment (fast track assessment) the following issues has been evaluated with special attention during the LSC:

Soil erosion and dust emissions. The PP took into consideration these issues during the LSC specially for the construction phase and proper documentation including (including earth movement, dust emissions, damage of roads and erosion) was provided in the monthly reports to the relevant authority (SETENA: National Environmental Technical Ministry). Rubble disposal was evaluated by the DOE in the environmental reports provided by the PP as part of the EIA requirements and it is considered appropriate and in line with the local requirements

Worker health and Safety. The PP considered this issue in the LSC and relevant H&S training evidence was registered in the Monthly Technical Reports. Also there is a person in charge of the Occupational Health of the plant. The worker health and safety was included as a monitoring parameter. The level of risks and mitigation measures for the "Do no harm" assessment considered by the PP after corrections are in line with local regulations and LSC comments. It can be confirmed that the PP did a proper "Do not harm" assessment of Safeguarding principle No. 8.

Landscape and visual impact. The issue was considered during the LSC and the local inhabitants believe that with the reforestation, vegetation and the wind turbines the landscape looks beautiful and better than before the project. The landscape effect due to land movement during construction was addressed by the PP and reported in the environmental reports. Furthermore for the operation phase all transmission lines that interconnect turbines and transformers do not have an additional effect on the landscape because they were already in place before the Project, this can be confirmed on the EIA.

Noise. The noise generated by the WTG was discussed in the LSC and it was included as a monitoring parameter. Although the noise parameter is not addressed by the environmental authority, the measures taken into consideration by the PP for monitoring of noise during operation of the wind farm are considered appropriate. Noise generated during construction phase was considered. As per environmental reports and LSC the PP notified the inhabitants about the temporary noise produced by the machinery during construction phase. The DOE verified during validation EIA requirements and interviewed relevant stakeholders who live close to the WTG. No negative comments were received.

Water Quality and Quantity. Could be relevant for the construction phase because of Runoff of sediment-laden storm water to the ephemeral water courses due to earthworks. Sediment can alter stream ecosystem by creating turbidity and a reduction in sunlight to the stream bed. Nonetheless as per environmental reports either LSC no such impact was identified during construction.

Access to affordable and clean energy services. As per LSC and interviews with local stakeholders no difference regarding energy supplying are observed apart of renewable energy utilization.

Damage to protected areas, natural habitats and cultural heritage. The issue was discussed in the LSC and the local inhabitants confirmed the before the project implementation no critical natural habitat was identified in the site. Thus the principle is not relevant to the project activity. The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats.

Species mortality. The issue was evaluated in the LSC and it is concluded that the Operation of turbines may result in collisions of birds and bats with the turbine rotor blades and / or towers causing bird and bat injury or mortality. The mortality was included as a monitoring parameter.

Shadow Flicker. The issue is not relevant for the project as no comments from the stake holders have been received. This was also confirmed by the VT by means of interviews to the local inhabitants.

Electromagnetic interference and radiation (EMI). The issue is not relevant for the project because no airport or radar zones are located close the project. This was also confirmed by the VT by means of interviews to the local inhabitants.

Environmental Impact Assessment. As per pre-feasibility assessment the EIA mentioned two species in danger of extinction, in Finca 1 "Cedro dulce", *Cedrela tonduzii* (Meliaceae), and 'Cipresillo', *Podocarpus costarricensis* (Podocarpaceae) and one fauna spice in Finca 4,5,6, the "soterrey o guachipelín (*Cistothorus platensis*)" but according to the inhabitants comments and monthly reports the spices were not touched during project construction.

Based on the conclusions from the Approval of EIA^{/EIA/} and the results from the stakeholder consultation^{/SFR/}, the validation team assessed the Sustainable Development Matrix in the passport including Gold Standard validation requirements^{/GSR/}. The project contributes positively to two of the three categories i.e. Social sustainability and development; Economic and technological development and neutral to the first category. Therefore the project is eligible under the Gold Standard.

The project shows a positive performance in the sustainable development components. The validation team hereby confirms that the sustainable development indicators relevant for the project activity have been assessed using the Gold Standard Sustainable Development (SD) assessment matrix as required by the Gold Standard version 2.2. The validation team was able to verify that the sustainable development matrix is prepared as per the existing sources of information, including EIA, the CDM validation report as well as the stakeholder consultation, and the scoring is reproducible and verifiable. The project activity contributes to reduce the GHG emissions and sustainable development in the region by reducing pollution, creating employment opportunities and improving the qualitative value of employment.

5.6 Stakeholder Consultation

The Gold Standard process includes two rounds of Stakeholder Consultation under the regular project cycle, i.e. Local Stakeholder Consultation (LSC) and Stakeholder Feedback Round (SFR). Since the project proponents apply under the retroactive project cycle and only SFR is necessary. Nonetheless as the project was registered as a CDM project, it had a LSC as per CDM requirements. During the LSC 24 workshops in 12 communities were organized totalizing 264 participants.

The project proponent conducted a SFR as per GS requirements and Pre-feasibility assessment. This meeting was held on Tuesday 12 August 2014, in the Community Hall, at San Cristobal Sur de Desamparados, in front of the Catholic Chapel, from 3:00 to 6:00 pm.

1. The Non-technical summary of the project were available for the stakeholders.
2. Six categories of stakeholders were invited to the FSC as per GS v2.2 Toolkit including:
 - A. Local people impacted by the project or official representatives
 - B. Local policy makers and representatives of local authorities
 - C. For CDM projects, an official representative of the DNA of the host country of the project
 - D. Local non-governmental organisations working on topics relevant to the project
 - E. The local Gold Standard expert who is located closest to the project location

F. Relevant international Non-Governmental Organisations (NGOs) supporting The Gold Standard, with a representation in the region and ALL GS Supporter NGOs located in the host country of the project.

The VT was able to verify these by reviewing invitation emails^{/SFR/} and CDM LSC information, and interviewing local stakeholders. No comments were received.

Invitation notice had been posted at the project site, the Non-technical summary was delivered to the local stakeholders at the meeting. The consultation meeting was attended by local stakeholders and questionnaires are delivered and answered by the participants. During the meeting the project proponent introduced the project design and answering the questions raised by the stakeholders, a blind SD exercise was performed and the corresponding social and environmental impacts were discussed. All of the participants hold positive attitude towards the project and believe that it will have an overall positive impact on the local area. No due account needs to be made on comments received.

The VT could proof that the methods for input/grievance expression were discussed with the stakeholders during the LSC. The PP established the 3 mandatory methods as per guidance from the Annex-W of the GS; Continuous Input/Grievance Expression Process Book, Telephone and e-mail for the construction and operation phases of the project. It could be verified with the FSR records that the continuous input & grievance mechanism can maintain a transparent communication channel with stakeholders and also can increase the mutual trust between the project owner and the local stakeholders.

DOE was able to verify above by observing the physical meeting and the site visit, and interviewing with the local stakeholders, checking the meeting attendance list, photos.

Based on the above assessment, DOE hereby confirms that the Project fulfils the relevant criteria of the Gold Standard Stakeholder Consultation and Continues Input/Grievance Mechanism.

6 VALIDATION OPINION

Carbonbay GmbH & Co. KG. has commissioned the TÜV NORD JI/CDM Certification Program (CP) to validate the project: "Los Santos Wind Power Project" with regard to the relevant requirements of the Gold Standard for GS project activities, as well as criteria for consistent project operations, monitoring and reporting. The Gold Standard Documentation and supporting documents were reviewed against the criteria as set out in the Gold Standard Requirements, the Gold Standard Toolkit, respective Annexes and CDM requirements, as applicable. This document must be seen in conjunction with the validation report ^{VAL/}.

In the course of the validation 7 Corrective Action Requests (CARs) and 1 Clarification Request (CL) were raised and successfully closed during the validation.

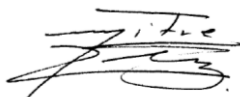
The review of the project design documentation and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and review of comments by parties, stakeholders and NGOs have provided TÜV NORD JI/CDM CP with sufficient evidence to validate the fulfilment of the stated criteria.

In detail the conclusions can be summarised as follows:

- The project meets all eligibility criteria set by the GS.
- The project involves the adaption of a new technology.
- The project does not result in negative social, environmental and/or economic impacts.
- The project contribution to Sustainable Development is determined.
- The project additionality is sufficiently justified in the PDD and GSP.
- The project does not result in diversion of ODA.
- Conservative assumptions were applied in the project description.
- The monitoring plan of SD parameters is transparent and adequate.
- The project meets the stakeholder consultation requirements.
- The calculated emission reductions of 87,376 tCO₂e are most likely to be achieved within the renewable crediting period of 7 years.

The conclusions of this report show, that the project, as it was described in the project documentation, is in line with all criteria applicable for the validation.

Queretaro, 2015-07-27

A handwritten signature in blue ink, appearing to be "J. F. J. J." with a stylized flourish at the end.

Essen, 2015-07-27

A handwritten signature in blue ink, appearing to be "J. F. J. J." with a stylized flourish at the end.



Raul Gonzalez Mitre
TÜV NORD JI/CDM CP
Validation Team Leader

Martin Saalman
TÜV NORD JI/CDM CP
Final Approval

7 REFERENCES

Table 7-1: Documents provided by the project participant

Reference	Document
/EF/	<ul style="list-style-type: none"> - Demand and generation, Annual Report, National Center of Control of Energy, 2011. - Demand and generation, Annual Report, National Center of Control of Energy, 2012. - Demand and generation, Annual Report, National Center of Control of Energy, 2013. - Fuels consumption 2011-2014, xls. - Generation per plant, 2011-Sep 2014, xls. - Hourly data in MWh, xls. - Capacity SEN 2011-2014, xls. - EF Los Santos v1-GS, xls
/EIA/	<ul style="list-style-type: none"> - Environmental Impact Assessment, Wind Project Los Santos, No. 739-2003-SETENA, Farm 1, addendum for Farm 2 and 3 (2007). - Environmental Impact Assessment, Wind Power Project Phase II, No. 1156-2007-SETENA, for Farm 4, 5, 6 and 7, Addendum (2009). - Assessment on the birds population "Diagnostico del estado poblacional de aves", Final report, Fundación NEUTROPICA, Apr 2011-Apr 2012. - Map "Geographic Location of the Wind Farm".
/EM/	<ul style="list-style-type: none"> - Evaluation Reports "Informes Regenciales", 739-2003-SETENA, by Luis Roberto Torre Rodriguez, for Farms 1,2 and 3. (every two months) - Evaluation Reports "Informas Regenciales", 1156-2007-SETENA, by Luis Roberto Torre Rodriguez, Farms 4, 5, 6 and 7. - Environmental Logbooks "Bitacoras Ambiental", (every two months) for project 739-2003-SETENA. - Environmental Logbooks "Bitacoras Ambiental", (every two months) for project 1156-2007-SETENA.
/Employment/	<ul style="list-style-type: none"> - Services contract between COOPESANTOS and Comando de Seguridad Los Santos S.A. for security services, including 8 persons dated 2012-01-01 with validity of 2 years. - Services contract between COOPESANTOS and Franklin Monestel Piedra for maintenance services in properties including roads and green areas maintenance and equipment and buildings maintenance, including at least 3 persons, 2012-01-01 with validity of 2 years. - Services contract between COOPESANTOS and Franklin Monestel Piedra for maintenance services in properties including roads and green areas maintenance and equipment and buildings maintenance, including at least 3 persons, 2013-01-01 with validity of 2 years. - Employment contract between COOPESANTOS and its employees. The

Reference	Document
	personnel relate directly with the Wind Farm are 6, plus 6 employees with activities not exclusives for the wind farm.
/GPS/	- Maps with the coordinates of the WTG.
/GSP/	<ul style="list-style-type: none"> - GS Passport "Los Santos Wind Power Project" version 01, dated from 2014-08-27 - GS Passport "Los Santos Wind Power Project" version 2., dated from 2014-10-10. - GS Passport "Los Santos Wind Power Project" version 2.2, dated from 2015-03-24. - GS Passport "Los Santos Wind Power Project" version 3, dated from 2015-04-07.
/LAW/	<p><u>Legislation:</u></p> <ol style="list-style-type: none"> 1. Electricity General Law given by Decree No. 93-96, 2007. 2. Regulation of the Electricity General Law given by Decree No. 93-96, 2007. 3. Regulation of the administrator of the majority market given by Decree No. 93-96, 2007. <p><u>Legislation:</u></p> <ol style="list-style-type: none"> 4. Technical Norm for use, operation and control of electricity meters – AR-DTCON, 21-12-2001. <p><u>Permits & Licenses:</u></p> <ol style="list-style-type: none"> 5. Environmental Resolution No. 344-2009-SETENA, 10/02/2009. 6. Environmental Resolution No. 2882-2010-SETENA, 30/11/2010.
/LSC/	<ul style="list-style-type: none"> - Local Stakeholders Consultation, version 1, 2014-08-28. - Local Stakeholders Consultation, version 2, 2014-10-10. - Local Stakeholders Consultation, version 2.2, 2015-03-24. - Local Stakeholders Consultation, version 3, 2015-04-07.
/MESR/	- Monthly Environmental and Social Management Reports "Informes de Gestión Ambiental y Social", from November 2010 to August 2012
/Soil/	- Reports (Informe regencial) of maintenance (roads and vegetation covering) and reforestation. Phase I and II, October 2011.
/Other_Pollutants/	<ul style="list-style-type: none"> - Noise Emission Study, Jun 2010, GAMESA, - Noise Emission Assessment, June 2013, COOPESANTOS - Noise Level Verification, June 2012, COOPESANTOS
/ODA/	ODA Declaration, 2015-02-20

Reference	Document
/PTR/	Personnel training records for 11 employees of COOPESANTOS: 1. Training certificates on wind power generation. 2. Training certificates on health, safety and first aids.
/SFR/	Stakeholder Feedback Round Evidence to stakeholders including public, local NGO, Local government, GS Expert and International NGOs for Stakeholder Feedback Round, including: - Invitation posted on public places - Invitation per e-mail - Invitation letters with door by door - Presentation in power point. - Minutes for stakeholders Feedback Round. - Attendance register of the stakeholders meeting. - Questionnaires applied to the attendants.
/XLS/	Emission reduction calculation spreadsheet

Table 7-2: Background investigation and assessment documents

Reference	Document
/AMS/	AMS-I.D - Grid connected renewable electricity generation (version 17)
/CPM/	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)
/FTP/	Fast Track Pre-Feasibility assessment, GS, 2014-07-21
/GSR/	Gold Standard Requirements (Version 2.2)
/GST/	Gold Standard Toolkit (Version 2.2)
/IPCC/	Revised 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Reference Manual
/KP/	Kyoto Protocol (1997)
/LL/	- Labour Code and its laws, Ministry of Work and Social Insurance, Costa Rica - Minimum salaries for professional on Engineering "Colegio Federado de Ingenieros y Arquitectos de Costa Rica". 2014-07-15. - Official newspaper 35, "Gaceta digital" Costa Rica, Minimum salaries as of July 2014.

Reference	Document
/MA/	Decision 3/CMP. 1 (Marrakesh – Accords & Annex to decision (17/CP.7))
/VAL/	Validation Report for CDM project “Los Santos Wind Power Project”, dated 2012-12-06.
/VVS/	Validation and Verification Standard (Version 7)

Table 7-3: Websites used

Reference	Link	Organisation
/dna-hp/	www.minae.go.cr	Ministerio del Ambiente y Energia (MINAE)
/dna-op/	www.government.nl/ministries/ie-nm	DNA Netherlands - Ministry of Infrastructure and the Environment / Directorate for Climate, Air and Noise
/dna-op/	www.dehst.de/EN/Climate-Projects/climate-projects_node.html	DNA Germany - German Emissions Trading Authority
/esmp/	www.ecosystemmarketplace.com/pages/dynamic/article.page.php?page_id=10166	Ecosystem Market Place
/gs/	www.cdmgoldstandard.org/	Gold Standard
/ipcc/	www.ipcc-nggip.iges.or.jp	IPCC publications
/oecd/	www.oecd.org/dac/stats/daclistofodarecipients.htm	OECD
/undp/	www.undp.or/mdg	UNDP
/unfccc/	http://cdm.unfccc.int	UNFCCC

Table 7-4: List of interviewed persons

Reference	Mol ¹		Name	Organisation / Function
/IM01/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Jeffrey Luna	General Manager - COPESANTOS

Reference	Mol ¹		Name	Organisation / Function
/IM01/	V	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms.	Raquel Fallas F.	Environment Manager - COPE SANTOS
/IM01/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Ronald Castillo	Generation Assistant - COPE SANTOS
/IM01/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Olger Robles	O&M Chief - COPE SANTOS
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Sergio Degener	Consultant – Anaconda
/IM02/	T	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms.	Guadalupe Avendano	Consultant – Anaconda
/IM03/	T	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Ivan Hernandez	Regional Manager GS
/IM03/	V	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms.	Ma. Elena Carrillo	Community La Paz
/IM03/	V	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms.	Mery Padilla	Community Palmital Sur
/IM03/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Fernando Cordero	San Cristobal

¹⁾ Means of Interview: (Telephone, E-Mail, Visit)

ANNEX

A1: Validation Protocol

A2: Statement of competence of
involved Personnel

ANNEX 1: VALIDATION PROTOCOL

Table A-1: Requirements Checklist based on the Gold Standard Version 2.2

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidences)	Ref.	Draft Concl.	Final Concl.
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Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidences)	Ref.	Draft Concl.	Final Concl.
A. Project Title				
Is the Project title given in the Passport the same as in the PDD? (GS Toolkit-1.6)	<p><i>Description:</i> The project title is “Los Santos Wind Power Project” the same as in the PDD.</p> <p><i>Validator’s action:</i> The passport is checked against the registered CDM PDD.</p> <p><i>Conclusion:</i> The Project title given in the Passport is checked as same as in the PDD.</p>	/GSP/ /PDD/	OK	OK
B. Project Description				
B.1. Is the Project description given in the Passport consistent with the one given in the PDD? (GS Toolkit-1.6)	<p><i>Description:</i> It is confirmed that most of the Project description given in the Gold Standard Passport consistent with the one given in the PDD.</p> <p><i>Validator’s action:</i> The passport is checked against the registered CDM PDD.</p> <p><i>Conclusion:</i> Yes, this requirements is fulfilled</p>	/GSP/ /PDD/	OK	OK
B.2. Has the estimated start date of project been given under the Project description? (GS Rules & Toolkit Annex R)	<p><i>Description:</i> As the project is the retroactive project, the start date of the project has been determined. The start date of the PA is listed in registered PDD.</p> <p><i>Validator’s action:</i> The passport is checked against the registered CDM PDD; equipment purchase contract and land purchase/certificate.</p> <p><i>Conclusion:</i> The start date of project has been given under the project description and is checked as in line with the registered PDD.</p>	/GSP/ /PDD/	OK	OK
C. Proof of project eligibility				
C.1. Scale of project				

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidences)	Ref.	Draft Concl.	Final Concl.
C.1.1. Has the scale of the Project activity been defined as per Gold Standard Toolkit Section 1.2.1? (GS Toolkit-1.2.1)	<p><i>Description:</i> The selected scale of the Project activity is small scale CDM (less than 15MW). It is in line with the Gold Standard Toolkit version 2.2.</p> <p><i>Validator's action:</i> The scale determination rule of the UNFCCC has been checked.</p> <p><i>Conclusion:</i> The scale is defined as per the Gold Standard Toolkit version 2.2 and UNFCCC.</p>	/GSP/ /unfccc/	OK	OK
C.1.2. Does the project proponent have a written statement (e.g. in the PDD) against de-bundling of the project? (De-bundling of small and large scale projects to create micro-scale projects is not allowed.) (GS Toolkit-3.5.1)	<p><i>Description:</i> It is not applicable</p> <p><i>Validator's action:</i> The UNFCCC website has been checked.</p> <p><i>Conclusion:</i> The project is a large scale project</p>	/PDD/	OK	OK
C.2. Host Country				
C.2.1. Does the host country have cap on its GHG emissions? (GS Toolkit-1.2.2)	<p><i>Description:</i> The host country does not have a mandatory cap on GHG. The host country has voluntary caps to become CO₂ neutral by the year 2021.</p> <p><i>Validator's action:</i> the host country approval has been checked.</p> <p><i>Conclusion:</i> The host country has not cap on its GHG emissions</p>	/PDD/ /esmp/	OK	OK
C.2.2. If the answer to the above question is yes, then has the Project proponent provided an official approval from the relevant local authorities stating that an equivalent amount of allowances will be retired to back-up the	<p><i>Description:</i> The host country has not cap on its GHG emissions. N/A.</p> <p><i>Validator's action:</i> N/A.</p> <p><i>Conclusion:</i> N/A.</p>	N/A	N/A	N/A

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidences)	Ref.	Draft Concl.	Final Concl.
GS VERs issued? (GS Toolkit-1.2.2)				
C.2.3. If the host country does not have a cap on its GHG emissions, has it been stated in the Passport? (GS Toolkit-1.2.2)	Description: The host country has not cap on its GHG emissions. Validator's action: Revision of local sources of information. Conclusion: N/A.	/GSP/	OK	OK
C.3. Project Type				
C.3.1. Is the Project a Renewable Energy Supply Project or an End-use Energy Efficiency Improvement Project? (If not, the validation has to be aborted) (GS Toolkit-1.2.3)	Description: The project is a Wind Power project which belongs to Renewable Energy Supply Project. Validator's action: The passport and PDD has been checked, and further confirmed by on-site investigation. Conclusion: The project is a Renewable Energy Supply Project.	/GSP/ /IM01/	OK	OK
C.3.2. Has the Project type and eligibility of the Project activity been defined as per Annex C of Gold Standard Toolkit? (GS Toolkit-1.2.3)	Description: The proposed Wind power project belongs to the category "renewable energy supply" defined as the generation and delivery of energy services (e.g. electricity) from non-fossil and non-depletable energy sources. The proposed project is replacing electricity generated from the fossil fuel dominated grid, so it reduces carbon dioxide that would have been emitted by grid connected fossil fuel power stations. Carbon dioxide is one of the three greenhouse gases eligible under the Gold Standard. The proposed project is not receiving any ODA. Validator's action: The passport has been checked against the Gold Standard Toolkit 1.2.3 and Annex C of Gold Standard Toolkit. Conclusion: The Project type and eligibility of the Project activity is confirmed as defined according to Annex C of Gold Standard	/GSP/ /GST/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidences)	Ref.	Draft Concl.	Final Concl.
	Toolkit.			
C.3.3. Has a previous announcement of the project going ahead without the revenues from carbon credits been made? (GS Toolkit-1.2.6)	<p><i>Description:</i> There has been no pre-announcement statement regarding the execution of the proposed Wind power project without the inclusion of carbon revenues. CDM funds were a key element in the finance structure of the project activity. The incentive from CDM was seriously considered prior to the start of the project activity. The proposed project would not have happened without CDM. Furthermore the project is registered as a CDM project.</p> <p><i>Validator's action:</i> The passport has been checked against the CDM registered PDD.</p> <p><i>Conclusion:</i> There is no pre-announcement statement.</p>	/GSP/ /PDD/ /GSR/ /GST/	OK	OK
C.3.4. If the answer to the above question is yes, has the project subsequently been cancelled or the design has been significantly revised? (GS Toolkit-1.2.6)	<p><i>Description:</i> N/A.</p> <p><i>Validator's action:</i> N/A.</p> <p><i>Conclusion:</i> N/A.</p>	N/A	N/A	N/A
C.3.5. If the answer to question (c) is no, have the Project Proponents provided a preannouncement statement under section C.3 in the Gold Standard Passport, attesting that no such previous announcement has been made? (GS Toolkit-1.2.6)	<p><i>Description:</i> The Project Proponents provided a preannouncement statement under section C.3 in the Gold Standard Passport, attesting that no such previous announcement has been made.</p> <p><i>Validator's action:</i> The passport has been checked against the CDM registered PDD.</p> <p><i>Conclusion:</i> The Project Proponents provided a preannouncement statement attesting that no such previous announcement has been made.</p>	/GSP/ /PDD/ /GSR/ /GST/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidences)	Ref.	Draft Concl.	Final Concl.
C.4. Greenhouse Gas				
C.4.1. Does the project reduce emissions of one or more of the following an GHG? Carbon dioxide, methane, nitrous oxide? (GS Toolkit-1.2.4)	<p><i>Description:</i> The project reduces emissions of CO₂. The electricity generated by the proposed Wind power project can displace part of the power from the fossil fuel-fired power plants and then reduce emissions of CO₂.</p> <p><i>Validator's action:</i> The passport has been checked, and confirmed through on-site investigation and documental review.</p> <p><i>Conclusion:</i> The project reduces emissions of CO₂.</p>	/PDD/ /GSP/ /IM01/ /GSR/ /GST/	OK	OK
C.5. Project registration type				
C.5.1. Does the project apply the correct project cycle (regular vs. pre-feasibility assessment)? (GS Toolkit-3.5.1)	<p><i>Description:</i> The project applies the pre-feasibility assessment project cycle, according to the fast-track assessment.</p> <p><i>Validator's action:</i> The VT and PP performed a fast-track assessment with GS personnel. The GS provide the report with the issues to be considered for the proper registration of the project.</p> <p><i>Conclusion:</i> The project applies the correct project cycle.</p>	/GSP/ /PDD/ /IM02/ /GSR/ /GST/ /FTP/	OK	OK
C.5.2. Is the Project activity a regular registration? (GS Toolkit-1.2.6)	<p><i>Description:</i> N/A</p> <p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>	N/A	N/A	N/A
C.5.3. Is the Project activity a retroactive registration? (GS Toolkit-1.2.6)	<p><i>Description:</i> Yes, the Project activity is a retroactive registration project. The project is registered as CDM project.</p> <p><i>Validator's action:</i> The passport has been checked against the registered CDM PDD.</p>	/GSP/ /PDD/ /GSR/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidences)	Ref.	Draft Concl.	Final Concl.
	<i>Conclusion:</i> The Project activity is a retroactive registration project.	/GST/		

<p>C.5.4. If the answer to the above question is yes, has the Project proponents applied to the Gold Standard for the pre-feasibility assessment? (GS Toolkit-1.2.6)</p>	<p><i>Description:</i> The Project proponents applied to the Gold Standard for the pre-feasibility assessment, according to the fast-track option. The project is listed in the GS website, the PFA outcome is positive.</p> <p><i>Validator's action:</i> The passport and GS website have been checked.</p> <p><i>Conclusion:</i> The Project proponents have applied to the Gold Standard for the pre-feasibility assessment.</p>	<p>/GSP/ /PDD/ /IM03/ /GSR/ /GST/ /PTP/</p>	<p>OK</p>	<p>OK</p>
<p>C.5.5. If the answer to the above question is yes, then has the Project proponent provided the Gold Standard pre-feasibility assessment feedback to the DOE? (GS Toolkit-2.5)</p>	<p><i>Description:</i> DOE has received the pre-feasibility assessment feedback.</p> <p><i>Validator's action:</i> the passport has been checked.</p> <p><i>Conclusion:</i> The Project proponents have applied to the Gold Standard for the pre-feasibility assessment.</p>	<p>/GSP/ /GSR/ /GST/ /FTP/</p>	<p>OK</p>	<p>OK</p>
<p>C.5.6. Does the Project activity need preliminary evaluation? (Large hydro or palm-oil related project as defined in Annex C of the Toolkit) (GS Toolkit-2.5)</p>	<p><i>Description:</i> No. It is not applicable as the project is a wind farm.</p> <p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>	<p>/GSP/ /GSR/ /GST/</p>	<p>OK</p>	<p>OK</p>
<p>C.5.7. If the answer to the above question is yes, has the Project proponents applied to the Gold Standard for the pre-feasibility assessment? (GS Toolkit-2.5)</p>	<p><i>Description:</i> N/A</p> <p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p>C.5.8. If the answer to the above question is yes, then has the Project proponent provided the Gold Standard pre-feasibility assessment feedback to the DOE?</p>	<p><i>Description:</i> N/A</p> <p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>

(GS Toolkit-2.5)				
C.5.9. Has the Project activity been rejected by UNFCCC? (GS Toolkit-2.5)	<i>Description:</i> No. The project is registered as a CDM project by UNFCCC. <i>Validator's action:</i> The unfccc website has been checked. <i>Conclusion:</i> The project is not rejected by UNFCCC.	/unfccc/	OK	OK
C.5.10.If the answer to the above question is yes, has the Project proponents applied to the Gold Standard for the pre-feasibility assessment? (GS Toolkit-2.5)	<i>Description:</i> N/A <i>Validator's action:</i> N/A <i>Conclusion:</i> N/A	N/A	N/A	N/A
C.5.11.If the answer to the above question is yes, then has the Project proponent provided the Gold Standard pre-feasibility assessment feedback to the DOE? (GS Toolkit-2.5)	<i>Description:</i> N/A <i>Validator's action:</i> N/A <i>Conclusion:</i> N/A	N/A	N/A	N/A
C.5.12.Are there any double counting occurring with other certification schemes? (GS Toolkit-3.5.1)	<i>Description:</i> No. The project is registered as CDM nonetheless the project has not issue any ER so far. <i>Validator's action:</i> Revision of UNFCCC information. <i>Conclusion:</i> There is no double counting occurring with other certifications schemes.	UNFCCC	OK	OK
D. Unique project identification				
D.1. GPS-coordinates of project location				
D.1.1. Has the Project proponent stated the exact GPS coordinates of Project location for point	<i>Description:</i> The exact GPS coordinates of the project has been stated in the passport, and is in line with the CDM registered PDD.	/GSP/	OK	OK

source activities and the boundaries for projects spread over a broader area? (GS Toolkit-1.6)	<p><i>Validator's action:</i> The Physical address of site is confirmed by conducted site visit and cross checked with www.google.com/maps/preview. It confirmed that the site location that state in PDD is correct.</p> <p><i>Conclusion:</i> It is confirmed that the project proponent has stated the exact GPS coordinates of Project location</p>	/ PDD/ /IM01/		
D.1.2. For Programme of Activity projects have the Project Proponent explained the reasoning behind the definition of the project location and coordinates carefully? (GS Toolkit-1.6)	<p><i>Description:</i> N/A</p> <p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>	N/A	N/A	N/A
D.2. GPS-coordinates of project location				
D.2.1. Have the coordinates been illustrated with a map? (Optional) (GS Toolkit-1.6)	<p><i>Description:</i> Yes. There are two maps without coordinates.</p> <p><i>Validator's action:</i> The maps have been reviewed.</p> <p><i>Conclusion:</i> There is a map without coordinates.</p>	/GPS/	OK	OK
E. Outcome stakeholder consultation process				
E.1. Assessment of stakeholder comments				
E.1.1. Has the Project proponent inserted the "Table from C.3.iii-Assessment of Stakeholder Comments" which was given under section B.5 of the Local Stakeholder Consultation Report? (GS Rules & Toolkit Annex R, E.1)	<p><i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirement.</p> <p><i>Validator's action:</i> The passport has been checked.</p> <p><i>Conclusion:</i> Not applicable.</p>	/GSP/ /GSR/ /GST/	OK	OK
E.1.2. Has the Project proponent given a summary of alterations based on stakeholders	<p><i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the</p>	/GSP/ /GSR/	OK	OK

comments? (GS Rules & Toolkit Annex R, E.1)	Gold Standard requirement. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> Not applicable.	/GST/		
E.1.3. Has an invitation tracking table been filled out? (GS Toolkit-3.5.1)	<i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> Not applicable.	/GSP/ /GSR/ /GST/	OK	OK
E.1.4. Are copies of invitations published/sent out available? (GS Toolkit-3.5.1)	<i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> Not applicable.	/GSP/ /GSR/ /GST/	OK	OK
E.1.5. Has a non-technical summary in local language been included in the Local Stakeholder Consultation report, as well as an English summary? (GS Toolkit-3.5.1)	<i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> Not applicable.	/GSP/ /GSR/ /GST/	OK	OK
E.1.6. Is a participant list presented? (GS Toolkit-3.5.1)	<i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> Not applicable.	/GSP/ /GSR/ /GST/	OK	OK
E.1.7. Are stakeholder evaluation forms available? (GS Toolkit-3.5.1)	<i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements.	/GSP/ /GSR/	OK	OK

	<p><i>Validator's action:</i> The passport has been checked.</p> <p><i>Conclusion:</i> Not applicable.</p>	/GST/		
E.1.8. Are minutes of the meeting(s) available? (GS Toolkit-3.5.1)	<p><i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements.</p> <p><i>Validator's action:</i> The passport has been checked.</p> <p><i>Conclusion:</i> Not applicable.</p>	/GSP/ /GSR/ /GST/	OK	OK
E.1.9. Has due account been made on comments received? (GS Toolkit-3.5.1)	<p><i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements.</p> <p><i>Validator's action:</i> The passport has been checked.</p> <p><i>Conclusion:</i> Not applicable.</p>	/GSP/ /GSR/ /GST/	OK	OK
E.1.10. If stakeholders required a revisit for the sustainable development assessment, has this been done? (GS Toolkit-3.5.1)	<p><i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements.</p> <p><i>Validator's action:</i> The passport has been checked.</p> <p><i>Conclusion:</i> Not applicable.</p>	/GSP/ /GSR/ /GST/	OK	OK
E.1.11. Is the consolidated sustainable development matrix presented based on own 'preliminary' scoring and the matrix from the outcome of the blind stakeholder exercise. (GS Toolkit-3.5.1)	<p><i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements.</p> <p><i>Validator's action:</i> The passport has been checked.</p> <p><i>Conclusion:</i> Not applicable.</p>	/GSP/ /GSR/ /GST/	OK	OK
E.1.12. Were comments accepted and received by email or other means actually considered? (GS Toolkit-3.5.1)	<p><i>Description:</i> No. As the proposed project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirements.</p> <p><i>Validator's action:</i> The passport has been checked.</p>	/GSP/ /GSR/ /GST/	OK	OK

	Conclusion: Not applicable.			
E.2. Stakeholder Feedback Round (Can be performed in parallel to the validation process)				
E.2.1. Has the Project proponent organized a stakeholder feedback round to give feedback to the stakeholders on how their comments have been taken into account? (GS Toolkit-2.10)	<p><i>Description:</i> The Stakeholder Feedback Round (SFR) has been organized by the Project proponents. SFR includes inquires and answers from and to the participants.</p> <p><i>Validator's action:</i> The passport and evidences have been checked.</p> <p><i>Conclusion:</i> The project has the SFR.</p>	<p>/GSP/ /GSR/ /GST/ /SFR/ /LSC/</p>	OK	OK

<p>E.2.2. Did the stakeholder feedback round include a physical meeting? (optional)</p> <p>(GS Toolkit-2.10)</p>	<p><i>Description:</i> The Stakeholder Feedback Round includes a physical meeting.</p> <p><i>Validator's action:</i> The passport and evidences has been checked.</p> <p><i>Conclusion:</i> Yes de SFR includes a physical meeting.</p>	<p>/GSP/ /GSR/ /GST/ /SFR/ /LSC/</p>	<p>OK</p>	<p>OK</p>
<p>E.2.3. Have all the stakeholders invited for participation in the Local Stakeholder Consultation been included in the Stakeholder Feedback Round?</p> <p>(GS Toolkit-2.10)</p>	<p><i>Description:</i> The stakeholders invited for the participating on the LSC have been included in the SFR.</p> <p><i>Validator's action:</i> The passport and evidences has been checked.</p> <p><i>Conclusion:</i> the stakeholders invited for participation in the Local Stakeholder Consultation been included in the Stakeholder Feedback Round.</p>	<p>/GSP/ /GSR/ /GST/ /PDD/ /LSC/</p>	<p>OK</p>	<p>OK</p>
<p>E.2.4. Have all of the following documents been made available to the public for a period of at least two months prior to completion of the validation:</p> <p>a. The Latest version of the complete PDD (including the EIA, if applicable);</p> <p>b. A non-technical summary of the project (in appropriate local language(s)); and English summary.</p> <p>c. The (revised) Passport</p> <p>d. if applicable, supporting documentation such as an environmental impact assessment (EIA) (if available, in appropriate local language(s)); in the case of an EIA, at least a one-page English summary is required</p> <p>e. Additional, non-translated information must be made available as well and shall be translated to the local language upon any justified request of a</p>	<p><i>Description:</i> As the Project is retroactive, all of the following documents been made available to the public for a period of at least two months prior to completion of the GS validation.</p> <p><i>Validator's action:</i> The passport, non-technical summary, PDD and the EIA has been checked.</p> <p><i>Conclusion:</i> The relevant documents have been made available to the public for a period of at least two months</p>	<p>/GSP/ /PDD/ /EIA/ /GSR/ /GST/ /LSC/</p>	<p>OK</p>	<p>OK</p>

<i>stakeholder.</i> (GS Toolkit-3.5.1)				
E.2.5. Did the Project proponent also prepare hard copies to be publicly displayed at local places like the post Office, municipality, etc? (GS Toolkit-2.10)	<p><i>Description:</i> The stakeholders attended the SFR and checked the hard copies of the PDD, passport and non-technical summary displayed in the meeting.</p> <p><i>Validator's action:</i> Some of the stakeholders have been interviewed by DOE.</p> <p><i>Conclusion:</i> the requirement is fulfilled.</p>	/GSP/ /PDD/ /IM03/ /SFR/ /GSR/ /GST/ /LSC/	OK	OK
E.2.6. If the Project is a retroactive Project, did the stakeholder feedback round include a site visit by the stakeholders participating in the process? (GS Toolkit-2.10)	<p><i>Description:</i> Yes. It is a retroactive project. The stakeholders participated in the process.</p> <p><i>Validator's action:</i> the questionnaires have been checked. Some of the stakeholders have been interviewed by DOE.</p> <p><i>Conclusion:</i> the requirement is fulfilled.</p>	/IM03/ /SFR/ /GSR/ /GST/	OK	OK
E.2.7. If the Project is a retroactive Project, did the Project proponent follow the guidance provided by the Gold Standard in the pre-feasibility assessment? (GS Toolkit-2.10)	<p><i>Description:</i> Yes. It is a retroactive project. The project went through a Fast Track Pre-Feasibility Assessment.</p> <p><i>Validator's action:</i> the Fast Track Pre-Feasibility Assessment has been checked.</p> <p><i>Conclusion:</i> the requirement is fulfilled.</p>	/IM03/ /SFR/ /GSR/ /GST/ /FTP/	OK	OK
E.2.8. Does the stakeholder feedback round report given in the Passport include the following information: a. How the feedback round was organized (A description of the procedure followed to invite comments, including addressing all the details of	<p><i>Description:</i> The required information has been included in the SFR report provided in the on-site validation.</p> <p><i>Validator's action:</i> the SFR report, the passport and evidences have been checked. The stakeholders have been interviewed by DOE.</p> <p><i>Conclusion:</i> the requirement is fulfilled.</p>	/SFR/ /GSP/ /GSR/ /GST/	OK	OK

<p><i>the oral hearing such as place, date, participants, language, local or national Gold Standard NGO supporters, etc.),</i></p> <p><i>b. What the outcomes of the feedback round are (All written or oral comments received.)</i></p> <p><i>c. How did the Project proponents followed up on the feedbacks. (The argumentation on whether or not comments are taken into account and the respective changes to the project design.)</i></p> <p>(GS Toolkit-2.10)</p>				
F. Outcome Sustainability assessment				
F.1. 'Do no harm' assessment				
<p>F.1.1. Has the Project proponents considered the critical issues for their Project type that are listed in Annex C of Gold Standard?</p> <p>(GS Toolkit-2.4.1)</p>	<p><i>Description:</i> the project is a wind power project belonging to "Renewable Energy Supply". Hence, it is not applicable.</p> <p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>	/GSR/ /GST/	OK	OK
<p>F.1.2. Have the Project participants discussed all of the safeguarding principles with the stakeholders?</p> <p>(GS Toolkit-2.4.1)</p>	<p><i>Description:</i> Since the project applies for retroactive registration. The stakeholder feedback round has been conducted as per guidance provided by the PFA.</p> <p>The PFA does not require the PP to specifically discuss safeguarding principles with the stakeholders.</p> <p><i>Validator's action:</i> the SFR report and the passport have been checked. The stakeholders have been interviewed by DOE.</p> <p><i>Conclusion:</i> In this project the discussion of all safeguarding principles with the stakeholders is not required.</p>	/SFR/ /GSR/ /GST/	OK	OK
<p>F.1.3. Have the Project participants introduced mitigation measures for the safeguarding principles with a medium to high risk?</p>	<p><i>Description:</i> No. There is no medium or high risk identified</p> <p><i>Validator's action:</i> the SFR report and the passport have been checked. The stakeholders have been interviewed by DOE</p>	/SFR/ /GSP/	OK	OK

(GS Toolkit-2.4.1)	<i>Conclusion:</i> The requirement is fulfilled.			
F.1.4. Does the 'Do No Harm' Assessment base on accurate information and have the reference sources been included? (GS Toolkit-3.5.1)	<i>Description:</i> 'Do No Harm' Assessment has been provided in the passport, nonetheless the description of relevance on the safeguarding principle No. 11 "not complicity in corruption" is missing. <i>Validator's action:</i> the EIA and the passport have been checked. <i>Conclusion:</i> the following CAR has been raised: CAR F1 The description of relevance on the safeguarding principle No. 11 "not complicity in corruption" is missing in the passport.	/EIA/ /GSP/	CAR F1	OK
F.2. Sustainable Development matrix				
F.2.1. Has the Sustainable Development Matrix table been inserted in the Passport? (GS Rules & Toolkit-Annex R, F.2)	<i>Description:</i> Yes, the Sustainable Development Matrix (SD) table been inserted in the Passport. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
F.2.2. Has the project been scored on the following indicators?: a. Environmental b. Social c. Technological d. Economic (GS Toolkit-2.4.2)	<i>Description:</i> Yes, the project has been scored on the Environment, Social Development and Economic & Technological Development. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
F.2.3. Have the corresponding parameters to represent the status of each of the indicators been selected? (GS Toolkit-2.4.2)	<i>Description:</i> Some parameters have been selected for building the SD Matrix nonetheless the guidance provided in Annex I of the GS has not been followed in detail. <i>Validator's action:</i> The passport and environmental documentation has been checked and personnel have been interviewed.	/GSP/ /Other_Pollutants/ /EM/	CL-F4 CAR F2	OK

	<p><i>Conclusion:</i> The following findings have been raised:</p> <p>CL F1</p> <p>Some environmental parameters are considered by the project proponents to be monitored, nonetheless they are missing in the SD matrix and clarification is missing regarding the relevance of these parameters in the GS-Passport and the decision to include them in the monitoring plan. These include:</p> <ul style="list-style-type: none"> - environmental noise generated by the WTG. - Reforestation, maintenance of roads and water paths management and recovering of green areas with vegetation. <p>CAR F2</p> <p>Refer to SD Matrix:</p> <ul style="list-style-type: none"> - Is not clear whether all mitigation measures included for the indicator biodiversity will be monitored during the whole crediting period. - The chosen parameter for the indicator "Soil condition" is no correct according with Annex I as the selected parameter does not refer to soil pollution or erosion. - The selected mitigation measure "number of contracts" for the indicator "Livelihood of the poor" is not in line with the guidance provided in Annex I of the GS. - The chosen mitigation measure "Total electricity generated" is not a mitigation measure and the chosen parameter "The power plant is managed under a rural electrification cooperative" is not a parameter according with Annex I of GS. - Is not clear whether the mitigation measures and chosen parameter for the indicator "Human and Institutional capacity" is relevant for the whole crediting period or just prior construction. - The second paragraph for the indicator "Technology transfer and 	/LSC/		
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	technological self-reliance" does not refer to a mitigation measure. Furthermore the chosen parameter "Number of contracts" is not line with the Annex I of GS.			
F.2.4. Is the baseline situation and the situation aimed for the project described for each parameter? (GS Toolkit-2.4.2)	<i>Description:</i> Yes, description has been given where applicable. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
F.2.5. Are the indicators connected to the localized MDG's (Milenium Development Goals) when possible? (GS Toolkit-2.4.2)	<i>Description:</i> MDGs have been described in the GS Passport. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The indicators are connected to the localized MDG's.	/GSP/ /LSC/	OK	OK
F.2.6. Was the reason for choice of the parameters described? (GS Toolkit-2.4.2)	<i>Description:</i> Some reason are missing regarding the choice of the parameters has been described <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> Refer to CL F1	/GSP/ /LSC/	OK	OK
F.2.7. Have all of the indicators been scored 'negative', 'positive' or 'neutral' in comparison with the baseline situation? (GS Toolkit-2.4.2)	<i>Description:</i> Yes, all the indicators have been scored in comparison with the baseline situation. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
F.2.8. If there are any 'negative' indicators, are there any mitigation measures for these indicators? (GS Toolkit-2.4.2)	<i>Description:</i> there is no 'negative' indicator. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
F.2.9. Has the matrix been filled by the stakeholders during the Local Stakeholder Consultation?	<i>Description:</i> the blind exercised was performed during the Stakeholder feedback round. <i>Validator's action:</i> the questionnaires have been checked. Some of	/GSP/ /SFR/	OK	OK

(GS Toolkit-2.4.2)	the stakeholders have been interviewed by DOE. <i>Conclusion:</i> The requirement is fulfilled.	/LSC/ /IM03/ /LSC/		
F.2.10. Were there any negative scores during the stakeholder consultation? (GS Toolkit-2.4.2)	<i>Description:</i> there is no 'negative' indicator. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
F.2.11. If the answer to the above question is yes, has the sustainability assessment been revisited? (GS Toolkit-2.4.2)	<i>Description:</i> N/A <i>Validator's action:</i> N/A <i>Conclusion:</i> N/A	/GSP/ /LSC/	N/A	N/A
F.2.12. Have the project indicators been classified in three categories namely "environment", "social development" and "economic and technological development" under the sustainable development matrix? (GS Rules & Toolkit-Annex I)	<i>Description:</i> The project indicators include the three categories namely "environment", "social development" and "economic and technological development" nonetheless they are not been classified in the SD Matrix. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The following CAR has been raised: CAR F3 The indicators included in the SD Matrix are not classified in the three categories according with the guidance provided in the Annex I.	/GSP/ /LSC/	CAR F3	OK
F.2.13. Does the project contribute positively to least at two of the three categories and neutral to the third category? (GS Toolkit-2.4.2)	<i>Description:</i> Yes, the project contributes positively to two of the three categories and neutral to the first category i.e. 'environment'. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
F.2.14. Is the matrix based on existing sources of	<i>Description:</i> the matrix is based on the EIA and environmental	/EIA/	OK	OK

information? (can include data from existing reports, results from stakeholder consultations, and experiences with similar projects in similar situations, etc. Where data are unavailable or are of poor quality, or severely outdated, independent opinions and expert judgments can also be used.) (GS Toolkit-3.5.1)c	reports of the Project, interview with staffs. <i>Validator's action:</i> the supporting documents have been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /PTR/ /IM01/ /LSC/		
F.2.15. Are the data or expert opinions presented in a sufficient degree of detail and transparency? (GS Toolkit-3.5.1)	<i>Description:</i> Not all data has been presented in a sufficient degree of detail and transparency <i>Validator's action:</i> The passport and environmental documentation has been reviewed. <i>Conclusion:</i> refer to CL F1	/GSP/ /LSC/	OK	OK
F.2.16. Are the data uncertainties clearly stated, if possible with associated margins of error? (GS Toolkit-3.5.1)	<i>Description:</i> N/A <i>Validator's action:</i> N/A <i>Conclusion:</i> N/A	/GSP/ /LSC/	N/A	N/A
F.2.17. Is the scoring reproducible and verifiable? (GS Toolkit-3.5.1)	<i>Description:</i> the scoring is reproducible and verifiable <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
F.2.18. Does the project demonstrate clear benefits in terms of sustainable development? (GS Toolkit-2.4.2)	<i>Description:</i> the project demonstrate clear benefits in terms of sustainable development <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
G. Sustainability Monitoring Plan				
G.1. Are the mitigation actions included in the monitoring plan?	<i>Description:</i> mitigation actions have been provided in monitoring plan.	/GSP/	OK	OK

(GS Toolkit-2.4.3)	<p><i>Validator's action:</i> The passport has been checked.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/LSC/		
<p>G.2. Are all the non-neutral indicators included in the monitoring plan?</p> <p>(GS Toolkit-2.4.3)</p>	<p><i>Description:</i> not all the non-neutral indicators are included in the monitoring plan.</p> <p><i>Validator's action:</i> The passport has been checked.</p> <p><i>Conclusion:</i> The following CAR has been raised:</p> <p>CAR G1</p> <p>The following non-neutral indicators have not been included in the MP according with the guidance GS Toolkit VII.d.2.:</p> <p>Soil Condition</p> <p>Human and institutional capacity</p> <p>Access to affordable and clean energy services</p> <p>Human and institutional capacity.</p> <p>Technology transfer and technological self-reliance</p>	<p>/GSP/</p> <p>/LSC/</p>	CAR G1	OK
<p>G.3. Is the current status (or expected status under the baseline) of the parameters, the future status and the way they will be monitored described in the monitoring plan?</p> <p>(GS Toolkit-2.4.3)</p>	<p><i>Description:</i> the current status of the parameters, the future status and the way they will be monitored have not been described precisely in the monitoring plan.</p> <p><i>Validator's action:</i> The passport has been checked.</p> <p><i>Conclusion:</i> The following CL has been raised:</p> <p>CAR G2</p> <p>The description of "Current situation of parameter" for indicators 1 and 2 is not correct as it do not refer to the baseline situation.</p>	<p>/GSP/</p> <p>/LSC/</p>	CAR G1	OK
<p>G.4. Have the project proponents identified parameters that can be used to properly</p>	<p><i>Description:</i> the project proponents identified some parameters that can be used to properly monitor each non-neutral Sustainable</p>	<p>/GSP/</p> <p>/LSC/</p>	CAR G3	OK

monitor each non-neutral Sustainable Development Indicator according Annex I of the Toolkit? (GS Toolkit-2.4.3)	<p>Development Indicator according Annex I of the Toolkit.</p> <p><i>Validator's action:</i> The passport and monitoring evidences have been checked.</p> <p><i>Conclusion:</i> The following CAR has been raised:</p> <p>CAR G3</p> <p>The chosen parameter related to the parameter No. 1 does not mention the sub-contractors for maintenance and security services, which are relevant for the project according with the interviews of personnel's project. Furthermore the "Future target for parameter" is not in line with the real reference target, as the level of salaries is not been compared with the local average but with the minimum salary.</p>			
G.5. Are chosen parameters relevant to the indicators? (GS Toolkit-3.5.1)	<p><i>Description:</i> The CL A1 has been raised</p> <p><i>Validator's action:</i> The parameters evidences and passport have been checked.</p> <p><i>Conclusion:</i> Refer to CL A1</p>	/GSP/ /LSC/	OK	OK
G.6. Are these parameters planned to be monitored over the crediting period and on a recurrent basis? (GS Toolkit-2.4.3)	<p><i>Description:</i> yes, they are monitored regularly.</p> <p><i>Validator's action:</i> The passport and monitoring evidences have been checked.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/GSP/ /LSC/	OK	OK
G.7. Are all mitigation measures put in place to prevent violation or the risk of violating a safeguarding principle of the 'Do No Harm' Assessment or to 'neutralize' a Sustainable Development Indicator included in the monitoring plan? (GS Toolkit-2.4.3)	<p><i>Description:</i> The CL A1 has been raised</p> <p><i>Validator's action:</i> The parameters evidences and passport have been checked.</p> <p><i>Conclusion:</i> Refer to CL A1</p>	/GSP/ /LSC/	OK	OK

G.8. Is the sustainability monitoring plan clear about who will monitor with what frequency? (GS Toolkit-3.5.1)	<i>Description:</i> the frequency and responsible personnel have been defined for each parameter in the section G of the passport. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/GSP/ /LSC/	OK	OK
G.9. Is the monitoring plan feasible? (GS Toolkit-3.5.1)	<i>Description:</i> considering the current practice, the monitoring plan is feasible. <i>Validator's action:</i> The passport has been checked. <i>Conclusion:</i> The GS requirement is fulfilled.	/GSP/ /LSC/	OK	OK
H. Additionality and conservativeness				
H.1. Additionality assessment				
H.1.1. Does the Project proponent use one of the UNFCCC or Gold Standard approved additionality tools in line with scale and type of the project. (GS Toolkit-2.3)	<i>Description:</i> the Project proponent uses the UNFCCC methodology AMS-I.D in line with scale and type of the project and the Project has been registered as a CDM project. <i>Validator's action:</i> The PDD has been checked. <i>Conclusion:</i> The requirement is fulfilled.	/PDD/	OK	OK
H.1.2. Identification of alternatives				
H.1.2.1 Does the Gold Standard Passport identify credible alternatives to the project activity in order to determine the most realistic baseline scenario? (VVS v. 04.0)	<i>Description:</i> This is not applicable as the Project has been registered as a CDM project. <i>Validator's action:</i> The UNFCCC site has been reviewed. <i>Conclusion:</i> The requirement is fulfilled.	/UNFCCC/ C/	OK	OK
H.1.2.2 Does the list of alternatives given in the Gold Standard Passport ensure that: i. the list of alternatives includes as one of the options that the project activity is undertaken without being registered as a proposed project	<i>Description:</i> This is not applicable as the Project has been registered as a CDM project. <i>Validator's action:</i> The UNFCCC site has been reviewed. <i>Conclusion:</i> The requirement is fulfilled.	/UNFCCC/ C/	OK	OK

activity? (VVS v. 04.0)				
ii. The list contains all plausible alternatives that the DOE, on the basis of its local and sectoral knowledge, considers to be viable means of supplying the outputs or services that are to be supplied by the proposed project activity? (VVS v. 04.0)	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/UNFCC C/	OK	OK
iii. the alternatives comply with all applicable and enforced legislation? (VVS v. 04.0)	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/UNFCC C/	OK	OK
H.1.3. Investment Analysis				
<p>H.1.3.1 Does the PDD provide evidence that the project would not be the most economically or financially attractive alternative or economically / financially feasible without the revenues from the sale of VERs/ CERs?</p> <p>(VVS, § 117)</p> <p><i>In cases where the project activity would produce no financial or economic benefits other than CDM-related income, describe how it has been validated that at least one of the alternatives identified is less costly than the proposed project activity.</i></p>	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/UNFCC C/	OK	OK
H.1.3.2 Is a clear, viewable and unprotected Excel spreadsheet available for the investment calculation?	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p>	/UNFCC C/	OK	OK

(EB 62 Annex 5, §8) <i>Describe the steps taken to validate this issue.</i>	<i>Conclusion:</i> The requirement is fulfilled.			
H.1.3.3 Does the period chosen for the investment analysis reflect the technical lifetime of the project activity or in case a shorter period is chosen, is the fair value of the project activity's assets at the end of the investment analysis period (as a cash inflow) included? (EB 62 Annex 5, § 3) <i>Describe how the technical lifetime / period chosen for calculating financial parameter(s) is reviewed and which documents were utilised in the course of review. Describe furthermore the approach used to check the inclusion of a potential fair value.</i>	<i>Description:</i> This is not applicable as the Project has been registered as a CDM project. <i>Validator's action:</i> The UNFCCC site has been reviewed. <i>Conclusion:</i> The requirement is fulfilled.	/UNFCC C/	OK	OK
H.1.3.4 Is the fair value calculated in accordance with local accounting regulations (where available) or international best practice? (EB 62 Annex 5, § 4) <i>State the accounting regulations applied for calculating the fair value and describe why these are applicable under the project specific circumstances. Describe potential mismatches between regulations and the approach applied for calculating the fair value.</i>	<i>Description:</i> This is not applicable as the Project has been registered as a CDM project. <i>Validator's action:</i> The UNFCCC site has been reviewed. <i>Conclusion:</i> The requirement is fulfilled.	/UNFCC C/	OK	OK
H.1.3.5 Is the book value as well as the expectation of the potential profit or loss included in the fair value calculation? (EB 62 Annex 5, § 4)	<i>Description:</i> This is not applicable as the Project has been registered as a CDM project. <i>Validator's action:</i> The UNFCCC site has been reviewed. <i>Conclusion:</i> The requirement is fulfilled.	/UNFCC C/	OK	OK
H.1.3.6 Is an appropriate analysis method chosen for the project (simple cost analysis, investment comparison analysis or benchmark analysis)?	<i>Description:</i> This is not applicable as the Project has been registered as a CDM project. <i>Validator's action:</i> The UNFCCC site has been reviewed.	/UNFCC C/	OK	OK

<p>(EB 70 Annex 8, EB 62, Annex 5, §19)</p> <p><i>Describe why the selected analysis method is appropriate under consideration of potential revenues and costs, potential project alternatives and potential available benchmark values.</i></p> <p><i>Assess whether the alternative to the project activity is to supply the same or substitute products or services. In this case, an investment comparison analysis shall be used.</i></p>	<p><i>Conclusion:</i> The requirement is fulfilled.</p>			
<p>H.1.3.7 Were the input values used in the investment analysis valid and applicable at the time of the investment decision?</p> <p>(EB 62 Annex 5, § 6)</p> <p><i>Describe the steps taken to validate this issue</i></p>	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/UNFCC C/	OK	OK
<p>H.1.3.8 Did implementation of the project ceased after its commencement and did implementation recommence after consideration of the CDM?</p> <p>(EB 62 Annex 5, § 7)</p> <p><i>Describe the reasons for ceasing the project and explain why the incentive from CDM was necessary to recommence the implementation.</i></p> <p><i>Assess whether the investment analysis reflects the economic decision-making context at point of the decision to recommence the project, i.e. capital costs incurred prior to the recommencement of the project are to be limited to the potential reuse/resale of tangible assets, demonstrating the value through assessment done by chartered specialists.</i></p>	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/UNFCC C/	OK	OK
<p>H.1.3.9 Are the input parameters based on values from Feasibility Study Reports that are approved by national authorities for proposed project activities?</p>	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p>	/UNFCC C/	OK	OK

<p>(VVS, § 122)</p> <p><i>In case the basis for input values is a Feasibility Study Report (FSR) describe how it has been ensured that the period in time between the finalisation of the FSR and the investment decision is sufficiently short so that it is unlikely that input values would have materially changed. Further confirm the consistency of values in FSR and PDD.</i></p>	<p><i>Conclusion:</i> The requirement is fulfilled.</p>			
<p>In case a simple cost analysis has been done, go to H.1.4;</p>				
<p>H.1.3.10 Has been a suitable financial indicator chosen by the project participants?</p> <p>(VVS, § 120 (a))</p> <p><i>Describe the steps taken to validate this issue.</i></p>	<p><i>Description:</i> N/A <i>Validator's action:</i> N/A <i>Conclusion:</i> N/A</p>	N/A	N/A	N/A
<p>H.1.3.11 Are depreciation and other non-cash related items only considered in the tax calculation and not as cash outflow?</p> <p>(EB 62 Annex 5, § 5)</p>	<p><i>Description:</i> N/A <i>Validator's action:</i> N/A <i>Conclusion:</i> N/A</p>	N/A	N/A	N/A
<p>H.1.3.12 Is the plant load factor (PLF) chosen in a conservative manner, taking into account that the PLF may be different in the framework of demonstrating additionality and calculating the ex-ante ER?</p> <p>(EB 48, Annex 11)</p>	<p><i>Description:</i> N/A <i>Validator's action:</i> N/A <i>Conclusion:</i> N/A</p>	N/A	N/A	N/A
<p>H.1.3.13 Does the PDD and related spreadsheets contain a sensitivity analysis and does the same contain variation of parameters which</p>	<p><i>Description:</i> N/A <i>Validator's action:</i> N/A</p>	N/A	N/A	N/A

<p>may vary throughout the project lifetime, (EB 62 Annex 5, § 20-21) <i>Describe relevance of parameters used in the sensitivity analysis as well as their likeliness to vary during the project's lifetime. Parameters which are fixed on the basis of contracts, PPAs etc. may not be subject to variation and not adequate.</i></p>	<p><i>Conclusion: N/A</i></p>			
<p>H.1.3.14 Were only variables that constitute more than 20% of either total project costs or total project revenues subjected to reasonable variation? (EB 62 Annex 5, § 20)</p>	<p><i>Description: N/A</i> <i>Validator's action: N/A</i> <i>Conclusion: N/A</i></p>	N/A	N/A	N/A
<p>H.1.3.15 Have parameters, constituting less than 20% of total project costs or revenues, been identified with potential material impact on the financial parameter? (EB 62 Annex 5, § 20) <i>Describe whether those parameters are considered in the sensitivity analysis?</i></p>	<p><i>Description: N/A</i> <i>Validator's action: N/A</i> <i>Conclusion: N/A</i></p>	N/A	N/A	N/A
<p>H.1.3.16 Is the range of variation reasonable in the specific context of the project activity, taking into consideration historic trends in the business sector? (EB 62 Annex 5, § 21) <i>Describe whether the range of variation is appropriate with focus on historic developments, e.g. price of oil / labour etc., energy potential in the region in question.</i></p>	<p><i>Description: N/A</i> <i>Validator's action: N/A</i> <i>Conclusion: N/A</i></p>	N/A	N/A	N/A
<p>H.1.3.17 In case of project IRR: Are the costs of financing expenditures (loan repayments</p>	<p><input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes, the costs of financing expenditures have been excluded.</p>	N/A	N/A	N/A

and interests) excluded from the calculation of project IRR? (EB 62 Annex 5, § 9)	<input type="checkbox"/> No, this requirement is not met. In this context the following additional findings have been identified:			
H.1.3.18 In case of equity IRR: Is the part of the investment costs, which is financed by equity, considered as net cash outflow and is the part financed by debt excluded in net cash outflow? (EB 62 Annex 5, § 10)	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes, in- and outflows have been considered correctly. <input type="checkbox"/> No, this requirement is not met. In this context the following additional findings have been identified:	N/A	N/A	N/A
In case a comparison analysis has been done, go to H.1.4				
H.1.3.19 Is the type of benchmark chosen appropriate for the type of IRR calculated (e.g. local commercial lending rates or weighted average costs of capital for project IRR; required/expected returns on equity for equity IRR)? (EB 62 Annex 5, § 12) <i>Describe the steps taken to validate this issue.</i>	<i>Description:</i> This is not applicable as the Project has been registered as a CDM project. <i>Validator's action:</i> The UNFCCC site has been reviewed. <i>Conclusion:</i> The requirement is fulfilled.	/UNFCCC/ C/	OK	OK
H.1.3.20 Is a pre-tax benchmark applied in case of project IRR is calculated? In cases where a post-tax benchmark is applied, assess whether actual interest payable is taken into account in the calculation of income tax. (EB 62 Annex 5, § 11) <i>If this is not the case, ensure that taxation is excluded from the investment analysis.</i>	<i>Description:</i> This is not applicable as the Project has been registered as a CDM project. <i>Validator's action:</i> The UNFCCC site has been reviewed. <i>Conclusion:</i> The requirement is fulfilled.	/UNFCCC/ C/	OK	OK

As per the guidance it is recommended to select a pre tax benchmark in order to describe the steps taken in assessing this requirement.				
<p>H.1.3.21 Have both benchmark and cash flows expressed consistently, i.e. real terms (excluding the effect of inflation) or nominal terms?</p> <p><i>Describe the steps taken to validate this issue.</i></p>	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/UNFCC C/	OK	OK
<p>H.1.3.22 Is the benchmark value suitable for the project activity and is it reasonable to assume that no investment would be made at a rate of a lower return than the benchmark?</p> <p>(VVS, § 121 (c))</p> <p><i>Describe whether it is reasonable to assume that a lower rate of return would consequently result in the baseline scenario.</i></p>	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/UNFCC C/	OK	OK
<p>H.1.3.23 Is the benchmark applied based on parameters that are available and standard in the market?</p> <p>(VVS, 121 (b), EB 62 Annex 5, §§13, 15, 16, 18)</p> <p><i>Assess whether company-specific benchmarks or benchmarks based on parameters that are available in the market are suitable to the project activity. A benchmark that includes the subjective profitability expectations or risk profile of the project developer (size risk premiums, company own risk premium, etc) is not suitable for project activities open to be developed by other entities.</i></p> <p><i>If cost of equity is applied, assure that best financial practices are used and are based on data sources which can be cross-checked against third-party or publicly available sources.</i></p>	<p><i>Description:</i> This is not applicable as the Project has been registered as a CDM project.</p> <p><i>Validator's action:</i> The UNFCCC site has been reviewed.</p> <p><i>Conclusion:</i> The requirement is fulfilled.</p>	/UNFCC C/	OK	OK

<p><i>If cost of debt is used for the calculation of the benchmark, ensure that it is calculated as the cost of financing in the capital markets (e.g: commercial lending rates)</i></p> <p><i>If the cost/equity financing structure of the project is not yet available, 50% equity, 50% debt financing may be assumed as default.</i></p>				
Following checklist is intended for cases where intern company benchmarks are applied, otherwise go to H.1.4				
<p>H.1.3.24 Is it ensured that the project cannot be developed by other developers than the PP, so that internal company benchmarks or expected returns are suitable for the project activity?</p> <p>(EB 62 Annex 5, §§ 13 – 14)</p> <p><i>Describe how it has been validated that there is only one possible project developer.</i></p>	<p><i>Description: N/A</i></p> <p><i>Validator's action: N/A</i></p> <p><i>Conclusion: N/A</i></p>	N/A	N/A	N/A
<p>H.1.3.25 Was the benchmark consistently used in the past by the same company for similar projects with similar risks?</p> <p>(EB 62 Annex 5, § 14)</p> <p><i>If applicable, assess the past financial behaviour of the entity during the last 3 years in relation to similar projects.</i></p>	<p><i>Description: N/A</i></p> <p><i>Validator's action: N/A</i></p> <p><i>Conclusion: N/A</i></p>	N/A	N/A	N/A
<p>H.1.3.26 Was the cost of debt calculated based on the weighted average cost of debt financing of the legal entity owning the CDM project activity?</p>	<p><i>Description: N/A</i></p> <p><i>Validator's action: N/A</i></p> <p><i>Conclusion: N/A</i></p>	N/A	N/A	N/A

<p>(EB 62 Annex 5, § 16)</p> <p><i>If applicable, assess whether loans, bonds or debt financing from a parent company are calculated according to the latest "Guidance on Investment Analysis".</i></p> <p><i>In case that the debt structure of the project is not yet available, the cost of debt can be assumed as the commercial lending rate in the company or the yield of a 10-year bond issued by the government of the host county.</i></p>				
<p>H.1.3.27 Does the equity/debt ratio of the project reflect the long-term debt/equity finance structure of the legal entity owning the assets of the project activity?</p> <p>(EB 62 Annex 5, § 17)</p> <p><i>Assess the latest balance sheets of the legal entity owning the assets of the project activity, in case these are available and audited by a third party within two years prior to the submission of the PDD for validation, and the accounting books reflect the total value of all assets needed for the project activity.</i></p> <p><i>If debt/equity financing structure is not available, 50% equity, 50% debt shall be considered as default.</i></p>	<p><i>Description: N/A</i></p> <p><i>Validator's action: N/A</i></p> <p><i>Conclusion: N/A</i></p>	N/A	N/A	N/A
<p>H.1.4. Barrier analysis Step 3 or SSC additionality assessment</p>				
<p>H.1.4.1 Are there any barriers given which have a clear and direct impact on the financial returns of the project?</p> <p>(VVS, § 125)</p> <p><i>In case of LSC projects those issues <u>cannot be considered</u> as barriers and shall be assessed in the investment analysis. In case of SSC projects the same fundamentals as for LSC projects shall apply, i.e. the assessment of the investment barrier according to</i></p>	<p><i>Description: N/A</i></p> <p><i>Validator's action: N/A</i></p> <p><i>Conclusion: N/A</i></p>	N/A	N/A	N/A

<i>EB 62 Annex 5. Only unavailability of sources of finance and/or risk related barriers, for example, the risk related to technical failure that could have negative impact on financial performance are acceptable as barriers.</i>				
H.1.4.2 Has the unavailability of means of finance for the project been described and adequately substantiated? Do evidences doubtlessly prove that the financing of the project was assured only due to the benefit of the CDM? (EB 50 Annex 13, § 9)	<i>Description: N/A</i> <i>Validator's action: N/A</i> <i>Conclusion: N/A</i>	N/A	N/A	N/A
H.1.4.3 Would provision of additional financial means lead to the mitigation of the barrier(s) demonstrated? (EB 50 Annex 13, § 7) <i>Describe why provision of additional financial means would not lead to mitigation of the barrier(s) demonstrated and hence analysing the project's additionality within the framework of an investment analysis is inappropriate.</i>	<i>Description: N/A</i> <i>Validator's action: N/A</i> <i>Conclusion: N/A</i>	N/A	N/A	N/A
H.1.4.4 How is it justified and evidenced that the barriers given in the PDD are real? (VVS, v. 03.0, § 126(a))	<i>Description: N/A</i> <i>Validator's action: N/A</i> <i>Conclusion: N/A</i>	N/A	N/A	N/A
H.1.4.5 How is it justified that one or a set of real barriers prevent(s) the implementation of the project activity and do not prevent the implementation of at least one of the alternatives? (VVS, § 126 (b))	<i>Description: N/A</i> <i>Validator's action: N/A</i> <i>Conclusion: N/A</i>	N/A	N/A	N/A
H.1.4.6 Does the review of relevant background	<i>Description: N/A</i>	N/A	N/A	N/A

<p>information on the nature of the company(ies) and entity(ies) involved in the financing and implementation of the project sufficiently justify that the barriers related to the lack of access to capital, technologies and skilled labour are real?</p> <p>(EB 50 Annex 13, § 4)</p>	<p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>			
<p>H.1.4.7 Has it been demonstrated in an objective way how the CDM alleviates each of the identified barriers to a level that the project is not prevented anymore from occurring by any of the barriers?</p> <p>(EB 50 Annex 13, § 5)</p>	<p><i>Description:</i> N/A</p> <p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>	N/A	N/A	N/A
<p>H.1.5. Common practice analysis (in case of SSC projects or first-of-its-kind LSC projects skip this step)</p>				
<p>H.1.5.1 Is the defined region for the common practice analysis appropriate for the technology/industry type?</p> <p>(VVS, § 129(a))</p> <p><i>Describe why the project activity is not common practice in a transparent and unambiguous manner. If a region other than the entire host country is chosen, describe why this region is more appropriate.</i></p>	<p><i>Description:</i> N/A</p> <p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>	N/A	N/A	N/A
<p>H.1.5.2 To what extent similar projects have been undertaken in the relevant region?</p> <p>(VVS, § 129(b))</p>	<p><i>Description:</i> N/A</p> <p><i>Validator's action:</i> N/A</p> <p><i>Conclusion:</i> N/A</p>	N/A	N/A	N/A

Similar projects are considered those that take place in a comparable environment w.r.t. regulatory framework, investment climate, access to technology and financing, etc. Registered CDM PA and PA that have been published on the UNFCCC website are not to be considered as similar.				
H.1.5.3 In case similar projects are identified, are there any key differences between the proposed project and existing or ongoing projects and what kind of differences are observed? (VVS, § 129(c))	Description: N/A Validator's action: N/A Conclusion: N/A	N/A	N/A	N/A
H.2. Conservativeness				
H.2.1. Does the emission reductions under Gold Standard are real, measurable and verifiable? (GS Toolkit-2.2)	Description: As the project has been registered as CDM project, a UNFCCC methodology with the applicable tools have been used. Validator's action: the PDD and methodology have been reviewed. Conclusion: the emission reductions under Gold Standard are real, measurable and verifiable.	/PDD/ /AMS/	OK	OK
H.2.2. Does the version of methodology that applied to the proposed project activity is the latest one available at time of first submission to the Gold Standard. (GS Toolkit-2.2)	Description: Yes, the project has been registered as CDM project, the version of the CDM methodology is still the latest. Validator's action: the methodology have been checked. Conclusion: The requirement is fulfilled.	/AMS/	OK	OK
H.2.3. Are there the similar project activities in the same region of proposed project activity that have been registered with a certain baseline. (GS Toolkit-2.2)	Description: This is not applicable as the Project has been registered as a CDM project. Validator's action: The UNFCCC site has been reviewed. Conclusion: The requirement is fulfilled.	/unfccc/	OK	OK
H.2.4. If yes, is there a convincing case for an	Description: N/A	/unfccc/	N/A	N/A

alternative choice of baseline methodology. (GS Toolkit-2.2)	<i>Validator's action:</i> N/A <i>Conclusion:</i> N/A			
H.2.5. If there is not a convincing case for an alternative choice of baseline methodology. Does the proposed project activity use the most conservative baseline? (GS Toolkit-2.2)	<i>Description:</i> N/A <i>Validator's action:</i> N/A <i>Conclusion:</i> N/A	N/A	N/A	N/A
H.2.6. Is the proposed project activity already registered at the UNFCCC? (GS Toolkit-2.2)	<i>Description:</i> Yes, the Project has been registered as a CDM project. <i>Validator's action:</i> the unfccc website has been checked.. <i>Conclusion:</i> the proposed project activity has already registered at the UNFCCC	/unfccc/	OK	OK
H.2.7. If yes, are there new and more conservative EB interpretation and/or new version of more conservative baseline methodology have been approved prior to submission to the Gold Standard. (GS Toolkit-2.2)	<i>Description:</i> The EB decisions, methodologies and tools applied for the UNFCCC registration are still valid. <i>Validator's action:</i> Revision of UNFCCC information. <i>Conclusion:</i> No.	/unfccc/	N/A	N/A
H.2.8. If yes, does the baseline for Gold Standard registration is revised for more conservative baseline. (GS Toolkit-2.2)	<i>Description:</i> N/A <i>Validator's action:</i> N/A <i>Conclusion:</i> N/A	/unfccc/	N/A	N/A
Annex 1 ODA declaration				
a. Does the project receive ODA under the condition that the credits coming out of the project are transferred to the donor country?	<i>Description:</i> The proposed wind power project has not received any Official Development Assistance (ODA) Funds defined in the Gold Standard Manual. <i>Validator's action:</i> personnel of the project has been interviewed	/IM01/	CAR X1	OK


(GS Toolkit-3.5.1)	<p><i>Conclusion:</i> The following CAR has been raised: CAR X1 The signed ODA form has not been provided by the PP.</p>			
<p>b. Is a scanned copy of the Official Development Assistance Declaration statement signed by the project owner given in Annex 1? (GS Rules & Toolkit-Annex D)</p>	<p><i>Description:</i> the declaration of non-use of ODA is not attached in the passport. <i>Validator's action:</i> the passport has been checked <i>Conclusion:</i> Refer to CAR X1</p>	/GSP/	OK	OK

ANNEX 2: STATEMENTS OF COMPETENCE OF INVOLVED PERSONNEL

TÜV NORD Certification											
Statement of Competence <small>Appointment and authorization according to the procedures of the TÜV NORD JI/CDM Certification Program</small>											
Mr. Raul Gonzalez Mitre											
<table border="1"><thead><tr><th>SCHEME</th><th>STATUS</th><th>VALID UNTIL</th></tr></thead><tbody><tr><td>CDM</td><td>Senior Assessor (Validation, Verification) Technical Reviewer</td><td>2015-06-27</td></tr><tr><td>VCS / ISO 14064-2</td><td>Senior Assessor</td><td>2015-06-27</td></tr></tbody></table>	SCHEME	STATUS	VALID UNTIL	CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2015-06-27	VCS / ISO 14064-2	Senior Assessor	2015-06-27		
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<small>Authorization status for technical areas within sectoral scopes:</small>											
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082 - Rev. 5, Date: 2014-07-11											
082_S01-VA080-F20_2014-07-11_rev5.doc											

TÜV NORD Certification											
Statement of Competence <small>Appointment and authorization according to the procedures of the TÜV NORD JI/CDM Certification Program</small>											
Mr. Sergio Cruz											
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185 - Rev. 5, Date: 2014-12-17											
185_S01-VA080-F20_2014-12-17_rev5.doc											

TÜV NORD Certification											
Statement of Competence <small>Appointment and authorization according to the procedures of the TÜV NORD JI/CDM Certification Program</small>											
Mr. Oliver Quireza Campos											
<table border="1"><thead><tr><th>SCHEME</th><th>STATUS</th><th>VALID UNTIL</th></tr></thead><tbody><tr><td>CDM</td><td>Auditor</td><td>07-07-2017</td></tr><tr><td>VCS / ISO 14064-2</td><td>Auditor</td><td>07-07-2017</td></tr></tbody></table>	SCHEME	STATUS	VALID UNTIL	CDM	Auditor	07-07-2017	VCS / ISO 14064-2	Auditor	07-07-2017		
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VCS / ISO 14064-2	Auditor	07-07-2017									
<small>Authorization status for technical areas within sectoral scopes:</small>											
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Statement of Competence
Appointment and authorization according to the procedures
of the TÜV NORD JI/CDM Certification Program

Mr. Stefan Winter

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2017-07-27
VCS	Senior Assessor (Validation, Verification) Technical Reviewer	2017-07-27


Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA	TR SUBCATEGORIES
1.1	Thermal energy generation	1.2.1 Hydro 1.2.2 Wind 1.2.3 Geothermal 1.2.4 Solar 1.2.5 Tidal
2.2	Heat distribution	
3.1	Energy demand	
13.1	Waste handling and disposal	13.1.1 Waste management 13.1.2 Waste water management
13.2	Animal waste management	
15.2	Animal waste management	

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Statement of Competence
Appointment and authorization according to the procedures
of the TÜV NORD JI/CDM Certification Program

Mr. Martin Saalmann

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2015-05-15
Ji	Senior Assessor Technical Reviewer	2015-05-15
VCS / ISO 14004-2	Senior Assessor Technical Reviewer	2015-05-15

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA	TR SUBCATEGORIES
1.2	Renewable energies	1.2.4 Solar
13.1	Waste management and disposal	13.1.1 Waste management 13.1.2 Waste water management

022 – Rev. 4, Date: 2012-05-16

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