VALIDATION REPORT
GALATA WIND ENERJİ A.Ş.

VALIDATION OF THE
ÇORUM SOLAR POWER PLANT PROJECT

REPORT NO.BVI/TURKEY-VD/ CER.TR.3287408.18.C45
REVISION NO. 03

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Report No: BV/TURKEY-VD/ CER.TR.3287408.18.C45

VALIDATION REPORT

Date of first issue: 20/11/2018	Organizational unit: Bureau Veritas Certification (India) Pvt Ltd
Client: Galata Wind Enerji A.Ş	Client ref.: Mr. Cem Cagri LEVENT

Summary:

Bureau Veritas Certification India Pvt Ltd has conducted the validation of the first crediting period of Çorum Solar Power Plant, GS Reference Number GS6566, operated and owned by Galata Wind Enerji A.Ş. which is located at Tatar village Çorum in Turkey on the basis of UNFCCC criteria for the CDM, as well as GS4GG and old versions of GS, GS Procedures for the Renewal of a Crediting Period and criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 12 of the Kyoto Protocol, the CDM rules and modalities and the subsequent decisions by the CDM Executive Board, as well as the host country criteria.

The validation scope is defined as an independent and objective review of the project design document, the project's baseline study, monitoring plan and other relevant documents, and consisted of the following three phases: i) desk review of the project design document and additional background documents; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final validation report and opinion. The overall re- validation, from Contract Review to Validation Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

The first output of the validation process is a list of Clarification Requests, Corrective Actions Requests, and Forward Actions Requests (CLs, CARs and FARs), presented in Appendix A. Taking into account this output, the project proponent revised its project design document.

In summary, it is Bureau Veritas Certification' opinion that the project correctly applies the baseline and monitoring methodology AMS I.D Version 18 and meets all relevant UNFCCC requirements for the CDM and the relevant host country criteria. Bureau Veritas Certification thus requests the registration of the project as a GS-VER project activity.

The crediting period type is renewable (5 years) which is planned with start & end date of crediting period to be 19/12/2017 – 18/12/2022. During the five years of its second renewable crediting period, the project is likely to achieve the estimated annual emission reductions of 39,399 tCO_2e.

Report No.: BVC/TURKEY-VD/ CER.TR.3287408.18.C45	Subject Group: GS4GGGS-VER	
Project title: Çorum Solar Power Plant Project		
Work carried out by: Mr. Furkan SADIKOĞLU		
Internal Technical Review carried out by: Ms. Seda YÜCEL		
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Abbreviations

BVI	Bureau Veritas Certification (India) Pvt Ltd
CAR	Corrective Action Request
CDM	Clean Development Mechanism
VER	Verified Emission Reductions
CL	Clarification Request
CO2	Carbon Dioxide
CO2e	Carbon Dioxide Equivalent
DOE	Designated Operational Entity
FAR	Forward Action Request
GHG	Green House Gas(es)
MoV	Means of Verification
MP	Monitoring Plan
PDD	Project Design Document
PLF	Plant Load Factor
PP	Project Participant
PPA	Power Purchase Agreement
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard
VVB	Validation Verification Body

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1. INTRODUCTION

Galata Wind Enerji A.Ş. (Galata hereafter) has commissioned Bureau Veritas Certification to verify the emissions reductions of its GS-VER project Çorum Solar Power Plant Project (hereafter called "Çorum") in Tatar village Çorum in Turkey.

This report summarizes the findings of the validation of the Project, performed on the basis of UNFCCC criteria, as well as GS4GG and old versions, GS Procedures for the Renewal of a Crediting Period and criteria given to provide for consistent project operations, monitoring and reporting.

1.1. Objective

The objective of a validation is to provide a through and independent third-party assessment of the project design. In particular, the project's baseline, the monitoring plan, and the project's compliance with relevant UNFCCC, GS4GG, and host country criteria are validated in order to confirm that the project design, as documented, is sound and reasonable, and meets the applicable GS4GG requirements and the identified criteria. Validation is a requirement for all GS4GG projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of voluntary emission reductions (VERs).

1.2. Scope

The validation scope is defined as an independent and objective review of the project design document, the project's baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against the requirements of paragraph 37 of the CDM M&Ps, the applicability conditions of the selected methodology and guidance issued by the Board.

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

1.3. Validation Team

The assessment team and internal technical reviewer team consist of the following personnel:

FUNCTION	NAME	TA 1.2	TASK PERFORMED*
Team Leader	Mr. Furkan SADIKOĞLU	☒	☒**DR** ☒**SV** ☐**RI** ☐**TR**
Internal Technical Reviewer (ITR)	Ms. Seda YÜCEL	☒	☐**DR** ☐**SV** ☐**RI** ☒**TR**
Report Issuance	Ms. Sapana Pednekar	☒	☐**DR** ☐**SV** ☒**RI** ☐**TR**

*DR = Document Review; SV = Site Visit; RI = Report issuance; TR = Internal Technical Review

2. METHODOLOGY

The overall validation, from Contract Review to validation Report & Opinion, was conducted using Bureau Veritas Certification' internal procedures.

In order to ensure transparency, a validation protocol was customized for the project, according to the version 01.0 of the CDM validation and verification standard for project activities, issued on 03/03/2017 (Ref-08). The protocol shows, in a transparent manner, criteria (requirements), means of validation and the results from validating the identified criteria. The validation protocol serves the following purposes:

- It organizes, details and clarifies the requirements a GS-VER project is expected to meet;
- It ensures a transparent validation process where the validator will document how a particular requirement has been validated and the result of the validation.

The completed validation protocol is enclosed in Appendix A to this report.

2.1. Review of Documents

The Project Design Document (GS-VER-PDD) submitted by Rüzgar Danışmanlık and additional background documents related to the project design and baseline were reviewed.

Furthermore, cross checks were made between information provided in the GS-VER-PDD and information from sources other than those used, the DOE's sectorial or local expertise and, independent background investigations.

To address Bureau Veritas Certification corrective action and clarification requests, Rüzgar Danışmanlık revised the GS-VER-PDD and resubmitted it on 21/01/2019.

The validation conclusions presented in this report relate to the project as described in the GS-VER-PDD version 0.5.

2.2. Follow-up Interviews

On 22/10/2018, Bureau Veritas Certification performed a site visit and interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of Galata Wind Enerji A.Ş and Rüzgar Danışmanlık and local stakeholders were interviewed (see References). The main topics of the interviews are summarized in **Hata! Başvuru kaynağı bulunamadı.**.

Table 1 Interview topics

Interviewed organization	Interview topics
Galata Wind Enerji A.Ş(the Project Owner)	➢ Project approval and implementation status. ➢ Project management and monitoring plan. ➢ Stakeholder consultation process. ➢ Government policies related to the project activity.

Local Stakeholder	➢ Project background in details ➢ Stakeholder comments ➢ Social and environmental impact of the project ➢ GS Sustainability matrix
Rüzgar Danuşmanlık (the Consultant)	➢ Applicability of selected methodology. ➢ Baseline determination. ➢ Revised emission reductions calculation. ➢ Emission reduction monitoring plan.

2.3. Resolution of Clarification, Corrective and Forward Action Requests

The objective of this phase of the validation is to resolve issues that require further elaboration, research or expansion prior to Bureau Veritas Certification' positive conclusion on the project design.

A Corrective Action Request (CAR) is raised, if one of the following situations occurs:

(a) The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable, verifiable and additional emission reductions;

(b) The applicable GS-VER requirements have not been met;

(c) There is a risk that emission reductions cannot be monitored or calculated.

A Clarification Request (CL) is raised, if information is insufficient or not clear enough to determine whether the applicable GS-VER requirements have been met.

A Forward Action Request (FAR) may also be raised during validation, to identify issues related to project implementation that require review during the first verification of the project activity.

To guarantee the transparency of the validation process, the issues raised, the responses provided by the project participants, the means of validation of such responses and references to any resulting changes in the GS-VER-PDD or supporting annexes are documented in the Validation Protocol in Appendix A.

2.4. Internal Technical Review

The validation report underwent an Internal Technical Review (ITR) before requesting registration of the project activity.

The ITR is an independent process performed to examine thoroughly that the process of validation has been carried out in conformance with the requirements of the validation scheme as well as internal Bureau Veritas Certification procedures.

The Team Leader provides a copy of the validation report to the reviewer, including any necessary validation documentation. The reviewer reviews the submitted documentation for conformance with the validation scheme. This will be a comprehensive review of all documentation generated during the validation process.

When performing an Internal Technical Review, the reviewer ensures that:

- The validation activity has been performed by the team by exercising utmost diligence and complete adherence to the CDM and GS rules and requirements.
- The review encompasses all aspects related to the project which includes project design, baseline, additionality, monitoring plans and emission reduction calculations, internal quality assurance systems of the project participant as well as the project activity, review of the stakeholder comments and responses, closure of CARs and CLs during the validation exercise, review of sample documents.

The reviewer may raise Clarification Requests to the validation team and will discuss these matters with the Team Leader.

After the agreement of the responses to the Clarification Requests from the validation team as well as the PP(s), the finalized validation report is accepted.

3. VALİDATİON CONCLUSIONS

In the following sections, the conclusions of the validation are stated.

The findings from the desk review of the original project design documents and the findings from interviews during the follow up visit are described in the Validation Protocol in Appendix A.

The Clarification, Corrective and Forward Action Requests are stated, where applicable, in the following sections and are further documented in the Validation Protocol in Appendix A. The validation of the Project resulted in 10CAR(s), 01 CL(s) and 0 FAR(s).

The CARs and CLs were closed out based on adequate responses from the Project Participant(s) which meet the applicable requirements. They have been reassessed before their formal acceptance and closure.

The number between brackets at the end of each section corresponds to the VVS paragraph.

3.1. Approval (43-44)

Approval is not applicable as the project is developed as a Gold Standard VER project.

3.2. Authorization (49)

Authorization is not applicable as the project is developed as a Gold Standard VER project.

3.3. Sustainable Development (52)

As the project is a GS-VER project it is not applicable for the host Part's DNA to confirm the contribution of the Project to the sustainable development of the host party. Please refer to section 3.1 of this report.

However, according to GS requirements as a sustainability monitoring plan is applicable and related parameters are available in detail in the project GS-VER-PDD (Ref-03). These parameters can also be seen in the monitoring plan, section 3.10 of this report.

3.4. Modalities of Communications (58,61)

N/A as the project is GS-VER.

3.5. Project Design Document (63)

Bureau Veritas Certification hereby confirms that the GS-VER-PDD complies with the latest forms of the guidance documents for completion of GS-VER-PDD. Gold Standard for the Global Goals Key Project Information & Project Design Document (PDD) Version 1.1 is used for the first crediting period according to GS4GG Principles and Requirements (Ref-12).

3.6. Changes in the Project Activity (17)

Webhosting is not applicable as the project is GS-VER.

3.7. Project Description (69)

The project is solar power plant and involves the installation of 8 MW licensed with 8 MWel total capacity. All project capacities are same and 1 MWel. The project is a newly built solar power plant which is located in Tatar village Çorum in Turkey. The project names are Deniz SPP, Doğanay SPP, Hilalay SPP, Karagül SPP, Kızıl SPP, Maviay SPP, Portakal SPP and Şenay SPP. The corner coordinates are confirmed through Çorum SPP Technical Evaluations forms as below;

Northern Tip: 653025,31 / 4484695,69

Southern Tip: 652950,39 / 4484140,17

Eastern Tip: 653185,01 / 4484725,92

Western Tip: 652884,51 / 4484188,95

The project activity has 29,376 photovoltaic modules and 135 invertors. The project activity commissioned on 19/12/2017. Provisional acceptance is signed between TEDAŞ and 8 solar power plant legal entity. The estimated electricity generation has been confirmed as 14,060 MWh per year through feasibility report dd. August 2017.Feasibility report prepared by “Solarwind Enerji Mühendislik Danışmanlık Sanayi ve Ticaret A.Ş.”. The call letters are also confirmed by DOE. Call letters are dated on 10/07/2015. Carbon revenue has been seriously considered prior to project start date on 08/02/2017 before Galata Energy purchase all 8 unlicensed SPP. Also Galata Energy has been considered carbon revenue on 15/03/2018.

The EIA exempt letters are dd. 04/06/2015 are provided to validation team. Milestones of the project activity has been confirmed as below;

Milestones	Dates
EIA Exempt Letters	04/06/2015
Zoning Approval Letter	12/01/2017
Carbon Decision 8 Unlicensed SPP	08/02/2017
EPC Agreement	06/07/2017
Construction Start Date	06/07/2017
Connection Opinion Letter	18/10/2017
Energy Transmission Line Provisional Acceptance	19/11/2017
Provisional Acceptance for 8 unlicensed project	19/12/2017
Galata Wind Energy Carbon Decision	15/03/2018

Geographical coordinates of the project has been confirmed through Çorum SPP Technical Evaluation forms.

The expansion 8 MWel Çorum SPP's estimated net annual electricity production is 14,060 MWh/yr. Expected annual emission reductions of this project is approximately 7,880 tCO2 which total to reduction of 39,399 tCO2-eq over the 5-year first crediting period.

The annual expected electricity supplied to Turkish National Grid is 14,060 MWh/year according to the Feasibility Report August 2017- SolarWind Energy (Ref-17).

The first 5-year renewable crediting period is from 19/12/2017 to 18/12/2022.

The project is located at Tatar village Çorum in Turkey.

The project will result in annual emission reductions of 39,399 tCO_2e during the five years of its first crediting period which is started on 19/12/2017.

The validation team confirms that the estimated PLF of 20.06% is calculated according to the operating practices.

The PLF is calculated as;

PLF = 14,060 / (8 * 8760) * 100 = % 20.06

(PLF = *Annual Gen / Installed Cap. x Working Hours)* which is complying with the Paragraph 3 (b) of "Guidelines for the Reporting and Validation of Plant Load Factors" version 01.

The validation did not reveal any information indicating that the Project can be seen as a diversion of official development assistance (ODA) funding towards the host country.

The processes undertaken by the validation team to validate the accuracy and completeness of the project description include conducting a physical site inspection, sampling, reviewing available designs and feasibility studies, conducting comparison analysis with equivalent projects.

Bureau Veritas Certification hereby confirms that the project description in the final GS-VER-PDD is accurate and complete in all respects.

3.8. Baseline and Monitoring Methodology

3.8.1. Applicability of the selected Methodology (77)

The Project uses the approved consolidated baseline and monitoring methodology AMS-I.D "Grid Connected Renewable Electricity Generation, version 18, EB 81, Annex 24.

(1) **Applicability condition 1:** The project activity involves installation of a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity. The proposed project activity is a greenfield project activity. Thus, the project activity complies with this criterion. This was confirmed through the site observations and Call Letters (Ref-14).

(2) **Applicability condition 2:** The project activity as it does not involve the installation of a hydro power plant. This was confirmed through the site observations and Call Letters (Ref-14) and EPC contract (Ref-16) and provisional acceptances.

(3) **Applicability condition 3:** The proposed project activity involves the installation of a solar project with a total capacity of 8 MW and there is no non-renewable component to the proposed project activity. Hence the project activity fulfils the applicable criterion. This was confirmed through the site observations and Call Letters (Ref-14) and EPC contract (Ref-16) and provisional acceptances.

(4) **Applicability condition 4:** The proposed project activity is not a combined heat and power system. This was confirmed through the site observations and Call Letters (Ref-14).

(5) **Applicability condition 5:** the project activity since the project activity is a Greenfield grid connected solar power plant. This was confirmed through the site observations and Call Letters (Ref-14).

(6) Applicability condition 6: The project activity is a Greenfield grid connected solar power plant. No retrofit or replacement exists in the project activity. This was confirmed through the site observations and Call Letters (Ref-14) and EPC contract (Ref-16) and provisional acceptances.

The project activity will not have a capacity extension at any year of the crediting period. With respect to the turbine agreement, the production capacity of power plant is definite. Hence the project activity will meet the limits of the small-scale project activity types with 8 MW installed capacity.

Bureau Veritas Certification hereby confirms that the selected baseline and monitoring methodology, tool and other methodology component is previously approved by the CDM Executive Board, and is applicable to the Project, which, complies with all the applicability conditions therein.

3.8.2. Project Boundary (86-87)

The validation team has validated the project boundary by:

(a) Assessing the relevant documents including Call Letters (Ref-14) and EIA not required certificate (Ref-13).

(b) Observing the physical site and equipment used in the process.

The spatial extent of the project boundary is clearly defined in line with AMS I.D Version 18 as the project power plant and all power plants connected physically to the electricity system that the CDM (GS-VER) project power plant is connected to.

The greenhouse gases and emission sources included in the project boundary are CO_2 emissions in the baseline arising from the fossil fuel fired power plants in the national grid that are displaced due to project activity. There are no project emissions as the project does not involve an emergency generator.

Bureau Veritas Certification hereby confirms that the identified boundary and the selected sources and gases are justified for the project activity. The validation team did not identify any emission sources that will be affected by the implementation of the proposed project activity and which are expected to contribute more than 1% of the overall expected average annual emissions reductions, and are not addressed by the selected approved methodology.

3.8.3. Baseline Identification (94-95)

Since the project is the installation of a new grid connected renewable power plant, the baseline scenario has been identified, in line with the applied methodology AMS I.D Version 18, as "Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the 'Tool to calculate the emission factor for an electricity system', Version 06 under Section B.4 of GS-VER-PDD v.4. The procedure contained in the methodology to identify the most reasonable baseline scenario has been correctly applied. In line with the requirements of the applied tool, the Simple Operating Margin Emission Factor ($EF_{grid,OM,y}$) has been calculated ex-ante, using TEIAS data for 2014-2016 period which is actual data during the investment decision date. The operating margin is calculated as **0,6486 tCO_2/MWh**. The operating margin calculation is checked and accepted by the validation team through the actual references for the project activity.

The Build Margin emission factor $EF_{grid,BM,y}$ is calculated as the generation-weighted average emission factor of a sample of power plants. The values are checked and confirmed through the TEIAS Statistics. The Build Margin Emission Factor ($EF_{grid,BM,y}$) has been determined as **0.2961 tCO_2/MWh** and has been found appropriate by the validation team. In accordance with the methodology of the "Tool to calculate the emission factor for an electricity system" v.06.0.0, Project participant determined the Combined Margin Emission Factor as **0.5605 tCO_2/MWh** and this have been confirmed by the validation team with reviewing all baseline calculation sheet equations and confirming the parameters used for the calculations and their relevant sources. $EFgrid_{,CM,y}$ = 0.75 * 0.6486 + 0.25 * 0.2961= **0.5605 tCO_2/MWh**.

Bureau Veritas Certification hereby confirms that:

(a) All the assumptions and data used by the project participants are listed in the GS-VER-PDD, including their references and sources;

(b) All documentation used is relevant for establishing the baseline scenario and correctly quoted and interpreted in the GS-VER-PDD;

(c) Assumptions and data used in the identification of the baseline scenario are justified appropriately, supported by evidence and can be deemed reasonable;

(d) Relevant national and/or sectorial policies and circumstances are considered and listed in the GS-VER-PDD;

(e) The approved baseline methodology has been correctly applied to identify the most plausible baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed project activity.

3.8.4. Algorithms and/or Formulae used to determine Emission Reductions (99-100)

The steps taken and the equations and parameters applied in the GS-VER-PDD to calculate project emissions, baseline emissions, and leakage and emission reductions comply with the requirements of the selected methodology including applicable tool(s).

Project installed capacity has been validated as 8 MW through the EPC Agreement (Ref-16) and unlicensed call letters (Ref-14).

Technical lifetime of the project was determined as 25 years and 0 months in line with the guidance of "Tool to determine the remaining lifetime of equipment", Version 01 through equipment agreement.

Project emissions of the project have been evaluated as:

$\mathbf{PE_y} = PE_{FF,y} + PE_{GP,y} + PE_{HP,y}$

Where:

PEy = Project emissions in year y (tCO_2e/yr)

$PE_{FF,y}$ = Project emissions from fossil fuel consumption in year y (tCO_2/yr)

$PE_{GP,y}$ = Project emissions from the operation of geothermal power plants due to the release of non-condensable gases in year y (tCO_2e/yr)

$PE_{HP,y}$ = Project emissions from water reservoirs of hydro power plants in year y (tCO_2e/yr)

Project being based on wind energy, none of the PE parameters are applicable according to AMS I.D Version 18 and the **project emissions are (PE_y) 0**.

Leakage Emission (LE_y) for the project has not been considered, in line with the applied methodology AMS I.D Version 18 and the **leakage emissions are (LE_y) 0**.

Baseline Emissions of the project has been evaluated as:

$\mathbf{BE_y} = (EG_y - EG_{baseline}) \times EF_{grid,CM,y}$

Where:

BE_y = Baseline emissions in year y (tCO_2/yr).

EG_y = Electricity supplied by the project activity to the grid (MWh).

$EG_{baseline}$ = Baseline electricity supplied to the grid in the case of modified or retrofit facilities (MWh). For new power plants this value is taken as zero.

$EF_{grid,CM,y}$ = Combined margin CO_2 emission factor for grid connected power generation in year y

Project involves the installation of a Greenfield plant and therefore $EG_{baseline}$ is assumed zero, and baseline emission for a year of operation is:

BE_y = 14,060 MWh/year x 0.5605 tCO_2/MWh = **7,880 tCO_2e** and since no project emissions are considered,

Emission Reductions of the project has been evaluated as:

ER_y = BE_y - PE_y - LE_y

Where:

ER_y = Emission reductions in year y (tCO_2e/yr).

BE_y = Baseline emissions in year y (tCO_2/yr).

PE_y = Project emissions in year y (tCO_2e/yr).

LE_y = Leakage emissions in year y (tCO_2e/yr).

ER_y = BE_y – 0 - 0 = **BE_y = 7,880 tCO_2e**

Bureau Veritas Certification hereby confirms that:

(a) All assumptions and data used by the project participants are listed in the GS-VER-PDD, including their references and sources;

(b) All documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the GS-VER-PDD;

(c) All values used in the GS-VER-PDD are considered reasonable in the context of the proposed project activity;

(d) The baseline methodology and corresponding tool(s) have been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions;

(e) All estimates of the baseline emissions can be replicated using the data and parameter values provided in the GS-VER-PDD.

3.9. Additionality (104)

In line with Gold Standard (GS) v.2.2, the additionality of the Project activity is ascertained in line with the applicable guidance from the UNFCCC.

As per guidance on demonstration of Additionality of small scale Project Activity (ver. 9 EB 68 Annex 27), it goes on to provide a positive list of grid-connected renewable electricity generation technologies that are automatically defined as additional, without further documentation of barriers. The list of technologies and project activity types are defined as automatically additional for project size up to and including small scale CDM thresholds (e.g. installed capacity up to 15 MW). The positive list comprises of the following grid-connected renewable electricity generation technologies of installed capacity up to 15 MW:

1) Solar technologies (photovoltaic and solar thermal electricity generation);

2) Off-shore wind technologies;

3) Marine technologies (wave, tidal).

4) Building-integrated wind turbines or household rooftop wind turbines of a size up to 100 kW;

Since the project activity is a solar photovoltaic electricity generation project of capacity 8 MW which is confirmed through commissioning records, it can be concluded from the above list that the project activity is automatically additional and does not require demonstration of barriers.

3.9.1.Prior consideration of the Clean Development Mechanism (112)

The timeline of the Project has been validated as in Table 2 below:

Milestones	Dates
EIA Exempt Letters	04/06/2015
Zoning Approval Letter	12/01/2017
EPC Agreement	06/07/2017
Construction Start Date	06/07/2017
Connection Opinion Letter	18/10/2017
Energy Transmission Line Provisional Acceptance	19/11/2017
Provisional Acceptance for 8 unlicensed project	19/12/2017

From the table above, the validation team is able to verify that the project activity start date determined as 06/07/2017 in the GS-VER-PDD is appropriate and is the earliest of the dates at which either the implementation or construction or real action of the Project began. Turbine Agreement Contract is in the key position for starting date of the project. This is in accordance with the latest CDM glossary, which is in turn referred to by GS.

The validation team has confirmed that the project activity is a retroactive project. The references for fast track option are provided to validation team. According to project retroactive cycle there is not any Board Decision for consideration of VER revenues.

On the other hand, project construction activities had been started on 06/07/2017. Start of the first crediting period has been confirmed as 19/12/2017 through provisional acceptance.

Bureau Veritas Certification hereby confirms that the proposed project activity complies with the requirements related to the prior consideration of the CDM.

3.10. Monitoring Plan (133)

The Project uses the approved consolidated monitoring methodology AMS I.D Version 18.

Data and Parameters Monitored

$EG_{facility,y}$ (SDG 7.2.1 "Renewable energy share in the total final energy consumption")

Quantity of net electricity generation supplied by the project plant to the grid:

Quantity of the net electricity generation supplied by the project to the grid will be used for the emission reduction calculations in all monitoring periods. For the project activity there will be two metering points and each of them has two electricity meters at the substation where one is called the main meter and the other one secondary.

Rules for meter accuracy are laid down in the TEIAS connection agreement. The net electricity generation supplied to the grid will be measure continuously by TEIAS meters and recorded monthly. The main source of the parameter will be Meter Reading Protocols (OSOS Records). The project participants also archived a hardcopy of meter reading protocols, scanned them and stored them. The invoices are kept by the Project owner as hardcopies. The net electricity export/supplied to a grid is the difference between the measured quantities of the grid electricity export and the import. Data measured by meters will be crosschecked with the YEDAŞ notice via e-mail or fax mail. The meters details are confirmed as below;

Meter ID	Serial number	Accuracy	Calibration date	Validity	Calibration entity
Main (Maviay)	65001333	0.5S	07/09/2016	Yes	TEIAS
Back-up (Maviay)	65003363	0.5S	31/10/2017	Yes	TEIAS
Main (Doğanay)	65001349	0.5S	07/09/2016	Yes	TEIAS
Back-up (Doğanay)	65003325	0.5S	31/10/2017	Yes	TEIAS
Main (Kızıl)	65001373	0.5S	07/9/2016	Yes	TEIAS
Back-up (Kızıl)	65003339	0.5S	31/10/2017	Yes	TEIAS
Main (Deniz)	65001094	0.5S	08/09/2016	Yes	TEIAS
Back-up (Deniz)	65003361	0.5S	31/10/2017	Yes	TEIAS
Main (Portakal)	65001148	0.5S	08/09/2016	Yes	TEIAS

Meter ID	Serial number	Accuracy	Calibration date	Validity	Calibration entity
Back-up (Portakal)	65003416	0.5S	31/10/2017	Yes	TEIAS
Main (Hilalay)	65001374	0.5S	08/09/2016	Yes	TEIAS
Back-up (Hilalay)	65003370	0.5S	31/10/2017	Yes	TEIAS
Main (Şenay)	65001237	0.5S	07/09/2016	Yes	TEIAS
Back-up (Şenay)	65003389	0.5S	31/10/2017	Yes	TEIAS
Main (Karagül)	65000979	0.5S	15/05/2016	Yes	TEIAS
Back-up (Karagül)	6503351	0.5S	31/10/2017	Yes	TEIAS

According to Communiqué of Meters in Electricity Sector (Ref-28); the meters to be used in the electricity market shall be compliant with the standard of Turkish Standards Institute or IEC and have obtained “Type and System Approval” certificate from the Ministry of Trade Industry.

The meters have been calibrated by Turkish Standard Institute and they will be recalibrated after 10 years under the responsibility of TEIAS. The necessary regulations regarding to electricity generation and metering are checked by the validation team. The monitoring plan of the $EG_{facility,y}$ parameter is line with the necessary regulations.

The project contributes to the following indicators 13.3.2 “Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions” and following target 13.3 “Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning”

The project contributes to the following indicators 7.2.1 “Renewable energy share in the total final energy consumption” and following target: 7.2 ‘’By 2030, increase substantially the share of renewable energy in the global energy mix.”

The project activity will produce 14,060 MWh and ER will be 7,880 tCO2e.

SDG 8: Decent Work and Economic Growth:

The project contributes to the following indicators 8.5.2 “Unemployment rate, by sex, age and persons with disabilities” and following target: “8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value”

Number of employment will be monitored by project participants through SGK records. It is estimated that the project activity employee number will be 5. This will be monitored once for period each monitoring through training records. As per GS4GG training of employees will increase the skills and competency of personnel and their safety in the work place. "Equal pay for work of equal value" is not applied because the free positions are Electrical Engineer, Electrical Technician, Security Personnel and Turbine Technician and due to social environment of Turkey no women has applied to these positions. After first verification, only changes in employees will be reported.

ERy: (SDG 13: Climate Action):

The project contributes to the following indicators 13.3.2 “Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions” and following target 13.3 “Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning”

Emission reduction will be monitored during each monitoring period through AMS I.D Version 18 The estimated emission reduction value has been confirmed as 7,880 tCO2e according to net generation values.

Sustainable Development Goals has been confirmed as below;

1. SDG 7: Affordable and Clean Energy

   Target: 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix

   Indicator: 7.2.1 “Renewable energy share in the total final energy consumption”

2. SDG 8: Decent Work and Economic Growth

   Target: 8.5 By 2030 achieve full and productive employment and decent work for all women and men

   Indicator: 8.5.2 Unemployment rate, by sex, age and persons with disabilities

3. SDG13: Climate Action

   Target: 13.3. Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

   Indicator: 13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions

Implementation of the Monitoring Plan

The amount of electricity generated by the project and fed to the national grid have been monitored continuously by two metering devices. The collected data have been kept by both Galata Wind Enerji A.Ş. and TEIAŞ during the crediting period, and stored at least two years after the last issuance of VER credits for the Çorum Solar Power Plant Project activity in the concerning crediting period.

Monitoring data is collected in accordance with the agreement done between the project owner and Turkish Electricity Distribution Company (TEDAS) which provides the infrastructure for the connection to the national grid. The metering system is defined in the agreement as two groups; main meter and spare meter. The meters are placed at the point the electricity is fed to the grid and sealed on behalf of the both parties.

Two group's electricity meters (each have main meter and spare meter) which are continuously measuring the electricity generated, are installed at Çorum Solar Power Plant.

All requirements and specifications of the meters are done according to Communiqué on the counter to be used in the Electricity Market by Energy Market Regulatory Authority (EMRA) on 22/04/2011 (Ref-27).

The company is not responsible for the calibration of the meters. Maintenance and calibration of the metering devices are made by TEIAS when inconsistency between two devices using a fixed template or upon request by either project owner or TEIAS System Usage Agreement, Art 3, B./2./b (Ref-06). The calibrations of the meters are done every 10 years according to 'Regulation of Metering and Testing of Metering Systems' (Ref-25).

The meters-MAKEL is used in the power house and is in line with the EMRA requirements for electricity meters. The accuracy class of the meters has been confirmed by the validation team during the site visit. The meters serial numbers and specifications are confirmed as below;

The accuracy class of the meters is 0.5S.

Calibration Frequency: 10 years

Initial calibration details are presented under section 3.10 of validation report.

The validation team considers that the means of implementation of the monitoring plan, including the data management and quality assurance and quality control procedures, are sufficient to ensure that the emission reductions achieved by/resulting from the proposed project activity can be reported ex post and verified.

Bureau Veritas Certification hereby confirms that the monitoring plan complies with the requirements of the methodology including applicable tool(s), the monitoring arrangements described in the monitoring plan are feasible within the project design and the project participants are able to implement the described monitoring plan.

SAFEGUARDING PRINCIPLES

Social & Economic Safeguarding Principles

Principle 1 – Human Rights: It is confirmed that the project aspects internationally proclaimed human rights including dignity, cultural property and uniqueness of indigenous people. The project activities are not complicit in Human Rights abuses. Turkey is a member of United Nations and part of UN Agreement on Human Rights. (http://www.resmigazete.gov.tr/arsiv/7217.pdf)

Principle 2 – Gender Equality and Women's Rights : It is confirmed that the project has no negative effect on GS4GG gender assessment questions. Çorum Solar Power Plant Project does not involve in any form discrimination in any kind of form. Turkey ratified ILO 100 Equal Remuneration Convention and 111 Discrimination. (http://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO::P11200_COUNTRY_ID:102893)

Principle 3 – Community Health, Safety and Working Conditions : It is confirmed that The project owner is committed to the safe and healthy working conditions during all phases of the project. All employees will attend trainings health & safety. This issue is protected by Labor Law and regulations. (http://www.mevzuat.adalet.gov.tr/html/1243.html)

Principle 4 – Cultural Heritage, Indigenous Peoples, Displacement and Resettlement : During the construction and operation of the project will not be any damage, alteration or removal to the critical cultural heritage. Because the project location isn't involve to any critical cultural heritage. Cultural and environmental heritage is also protected against alteration, damage or removal by the law. The project's area is private land. Documents have been submitted to DOE.

Principle 5 – Corruption : The project does not involve and is not complicit in any form of forced or compulsory labor. It is confirmed through ILO 29 Forced Labour Convention.

(http://treaties.un.org/Pages/ViewDetails.aspx?mtdsg_no=XVIII-14&chapter=18&lang=en)

Principle 6 – Economic Impacts : According to Worst form of child labor the project does not employ and is not complicit in any form of child labor. Turkey has ratified ILO 138 Minimum Age Conventions and 182 Worst Forms of Child Labour Convention. Galata Wind Enerji A.Ş. and appointed subcontractors does not involve in any form forced or compulsory labour Turkey has ratified ILO 29 Forced Labour Convention.
(http://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO::P11200_COUNTRY_ID:102893)

Environmental & Ecological Safeguarding Principles

Principle 1 – Climate and Energy: The project does not increase greenhouse has emission over the baseline scenario. The project activity is renewable energy project and reduces the greenhouse gas emissions. On the other hand, it is confirmed that the project activity generates renewable energy and supplies to the grid.

Principle 2 – Water: The project activity has no negative effect on water resources. This is also confirmed through EIA Exempt Letters dd. 04/06/2015.

Principle 3 – Environment, ecology and land use: The land for the project has been approved by the all relevant local Authorities. This is also confirmed during the first verification period. The project is susceptible to decreased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme conditions.

The project is not caused additional erosion or water body instability and disrupt natural pattern of erosion. The project owner has had prepared the ground survey report to third party independent experts for the purpose of assessing the suitability of the land, examination of the disaster events likely to occur in and around the site (erosion, rockfall, flood etc.) and to reduce or prevent it if any likelihood is assessed. The report's verdict is that the disastrous events are not likely to happen. This is confirmed through ground survey report.

Solar power project systems not affects the herbal life negatively. It is confirmed that the project owner also follows necessary procedures for environmental safety at the project site at international standard (such as Bern Convention). Solar power project systems not affects the herbal life negatively. This is confirmed through EIA Exempt records. The all wastes are disposed of according to related regulations. Solid waste has been disposed in appropriate Tatar village's locations by employees. The project not involve the application of pesticides and/or fertilizers because the project activity is solar power plant.

3.11. Environmental Impacts (137)

The project participants conducted an analysis of the environmental impacts of the proposed project activity, including trans-boundary impacts as a part of the national EIA procedures. However the project is EIA exempt as it is not included in activities determined in the Annex-2 of the EIA Regulations. This was made official and was validated through the decision of the Çorum Provincial Environment and Forestry Directorate dd.04/06/2015. (Ref-13).

Aspects of the project's possible environmental impacts were also assessed by GS procedures as detailed in the GS-VER-PDD and GS Passport for the project (Ref-03).

Due to project size and location almost no impact is expected which is found acceptable by BVC after on-site observations and assessment of the project characteristics.

Bureau Veritas Certification hereby confirms that the project participants have undertaken an analysis of environmental impacts.

3.12. Local Stakeholder Consultation (140)

The project participants have completed a local stakeholder consultation (LSC) process in line with the requirements of GS on the subject and that due steps were taken to engage stakeholders and solicit comments for the proposed project activity. The stakeholders from all categories suggested by Gold standard For Global Goals were invited to the meeting via mail on 18/05/2018 and via face to face with the villager on 21/05/2018 and The local stakeholder meeting has been held on 20th of June 2018 in Tatar Village Mukhtar Office, Merkez District of Corum province. Local stakeholders were encouraged to give feedback about the project.

Stakeholder feedback round started on 16/08/2018. Stakeholder feedback round has been realized in compliance with the GS procedures governing the issue between the dates 16/08/2018 – 16/10/2018. The beginning of two months Stakeholder Feedback Round has been through e-mails and delivery of several hard copies of the mentioned documents for those who don't have an e-mail address. The meeting was supposed to be held in Tatar village which is the closest settlement to the project site. The documents made available under the Gold Standard's webpage. It is confirmed that during this 2-months period, no feedback was provided.

BVC conducted live interviews Tatar village's residents as well as community leaders during the site visit dd. 22/10/2018. During the site visit informed stakeholder are selected by the validation team on Complementary Stakeholder Consultation and nearest village. The Tatar village headman Mr. Mehmet Koldaş has no negative opinion on air quality parameters. During the site visit also DOE consult to stakeholders' opinions. The stakeholders have no negative opinion on Job opportunities, social supports and communication. They declared that there is not any negative impact regarding to project activity on sustainable development parameters. DOE gave the phone number for possible complaints but no negative feedback is forwarded to DOE.

The validation team observed that the stakeholders have generally positive opinions for the project activity. The project owners have good relation with the stakeholders in Tatar village. On the other hand, the announcement for complementary stakeholder consultation has been seen by the validation team.

During the site visit also female stakeholder Ms. Gülseren Koldaş is visited at her home by DOE. Female stakeholders stated their content due to the employment opportunities provided by the projects to local people.

Bureau Veritas Certification hereby confirms that comments that are relevant for the proposed project activity have been invited from local stakeholders, the summary of the comments received as provided in the GS-VER-PDD is complete, the project participants have taken due account of all comments received and have described this process in the GS-VER-PDD.

4. COMMENTS BY PARTIES, STAKEHOLDERS AND NGOS

Webhosting is not applicable since the project is GS-VER.

5. VALIDATION OPINION

Bureau Veritas Certification has performed a validation of the Çorum Solar Power Plant Project, which is located in Tatar village Çorum in Turkey. The validation was performed on the basis of UNFCCC criteria for the CDM, GS4GG requirements and host country criteria and criteria given to provide for consistent project operations, monitoring and reporting.

The validation consisted of the following three phases: I) desk review of the project design document and additional background documents; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final validation report and opinion.

The project correctly applies the approved consolidated baseline and monitoring methodology AMS I.D Version 18

By displacing fossil fuel powered generation sources in the national interconnected grid, the project is likely to result in reductions of GHG emissions that are real, measurable and give long-term benefits to the mitigation of climate change. It is demonstrated that the project is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity.

Given that the project is implemented and maintained as designed, the project is likely to achieve the estimated annual emission reductions of 7,880 tCO_2e during the seven years of its second renewable crediting period.

The review of the project design documentation and the subsequent follow-up interviews have provided Bureau Veritas Certification with sufficient evidence to determine the fulfillment of stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM, GS4GG requirements and the relevant host country criteria. Bureau Veritas Certification thus requests registration of the project as a GS-VER project activity.

Ms. SEDA YÜCEL
Internal Technical Reviewer
25/11/2018

Mr. Furkan SADIKOĞLU
Team Leader
25/11/2018

6. REFERENCES

Category 1 Documents:

Documents provided by project participants that relate directly to the GHG components of the project.

/1/ *Çorum SPP PDD Ver03 – 30/07/2018 (First Crediting Period)*

/2/ *Çorum SPP Ver04 – 07/11/2018*

/3/ *Çorum SPP Ver04 – 12/11/2018*
Çorum SPP_Baseline Study v0.3_12/11/2018

Category 2 Documents:

Background documents related to the design and/or methodologies employed in the design or other reference documents used for cross-check.

/4/ *Zoning Approval Letter_12/01/2017*
/5/ *EIA Not Required Certificate 04/06/2015*
/6/ *TEIAS System Usage Agreement – 14/04/2016*
/7/ *TEIAS System Connection Agreement – 18/10/2017*
/8/ *CDM validation and verification standard for project activities, Ver.01.0*
/9/ *UNFCCC Approved consolidated baseline and monitoring methodology AMS I.D Version 18 – "Grid Connected Electricity Generation from Renewable Sources"*
/10/ *UNFCCC's Methodological Tool: "Tool for the demonstration and assessment of additionality" Version 07.0.0*
/11/ *UNFFFC's Methodological Tool: "Tool to calculate the emission factor for an electricity system" Version 06.0.0*
/12/ *https://globalgoals.goldstandard.org/100-gs4gg-principles-requirements/*
/13/ *EIA Not Required Certificates – 04/06/2015*
/14/ *Call Letters – 10/07/2015*
/15/ *Guidance on demonstration of Additionality of Small scale Project activity*
/16/ *EPC Agreement – 06/07/2017*
/17/ *Wind Assesment Report – 10/11/2016*
/18/ *Calibration Records*
Provisional acceptance for 8 unlicensed Project – 19/12/2017
/19/ *Connection Opinion Letters – 18/10/2017*
/20/ *Energy transmission line provisional acceptance – 19/11/2017*
/21/ *http://www.epdk.org.tr/documents/elektrik/mevzuat/kanun/Elk_Kanun_Yek_Kanun.doc*

/22/ http://www.teias.gov.tr/projeksiyon/KAPASITE%20PROJEKSIYONU%202010.pdf
/23/ *http://www.epdk.gov.tr/documents/elektrik/mevzuat/kanun/Elk_Kanun_6446.doc*
/24/ *http://www2.cevreorman.gov.tr/yasa/k/2872.doc (Enactment Date: 1983)*
/25/ *http://www.epdk.gov.tr/documents/elektrik/mevzuat/teblig/elektrik/sayaclar_hakkinda/Elk_Tblg_Sayaclar.doc*
/26/
/27/ *http://www.mevzuat.gov.tr/Metin.Aspx?MevzuatKod=7.5.6381&MevzuatIliski=0&sourceXmlSearch*
/28/ *http://epdk.org.tr/documents/elektrik/mevzuat/yonetmelik/elektrik/dengeleme_uzlastirma/DUYson.doc*
/29/
http://www.epdk.org.tr/english/regulations/electric/meters.doc, page 1
http://www.sanayi.gov.tr/download/osgm/olcu_aletleri_muayene_yonetmelik.zip , page 2
http://www.teias.gov.tr/sistemkullanim1.doc , page 3, 2-b)

Persons interviewed:

Persons interviewed during the validation or persons that contributed with other information that are not included in the documents listed above.

Galata Wind Enerji A.Ş

/1/	Cem Çağrı LEVENT	Project Owner
/2/	M. Ali GÜRPINAR	Project Owner
	Murat AKKUŞ	Security Personnel

Rüzgar Danışmanlık

/3/	Çağla Balcı ERİŞ	Consultant - +90 (554) 388 59 49

Local Stakeholders

/4/	Mehmet KOLDAŞ	Tatar Village Muhtar - 0 (533) 395 09 11
/5/	Gülseren KOLDAŞ	Tatar Village Stakeholder
/6/	Sefa KOLDAŞ	Tatar Village Stakeholder – 0 (542) 244 73 84
/7/	Süleyman KURTARAN	Tatar Village İmam – 0 (536) 275 00 95

7. CURRICULA VITAE OF THE DOE'S VALİDATİON TEAM MEMBERS

Mr. Furkan SADIKOĞLU	Bureau Veritas Certification Certification, Turkey	**Team Leader, Climate Change Lead Verifier.** Furkan Sadıkoğlu is an Electrical & Electronics Engineer. His M.Sc. degree in Necmettin Erbakan University in Energy Systems Engineering. He has an experience in renewable energy and LED lightning sectors and he has over 5 years' experience in energy sectors. He has participated online seminars in the Gold Standard Academy in 2012 ,2013,2015 and 2017 and is a lead verifier for GHG emission reduction projects. He completed more than 75 GS and VCS projects as a team leader/validator/verifier. He is also MRV Lead verifier. He has been working with Bureau Veritas Certification as a subcontractor lead auditor since September 2014.

Ms. SEDA YÜCEL	Bureau Veritas Certification Certification, Turkey	**Technical Reviewer, Climate Change Lead Verifier,** Fikriye Seda YÜCEL, B.Sc. in Chemical Engineering has completed her M.Sc. degree in Istanbul Technical University in Energy Science and Technology. She is lead auditor and trainer for ISO 50001 and has been working about management systems, ISO 14064 and energy management in industry since 2004. She has been involved in more than 80 GS and VCS projects as a team leader/validator/verifier especially in the energy sector. She has been working as Gold Standard team leader/validator/verifier.

Appendix A: SMALL SCALE PROJECT ACTIVITIES VALIDATION PROTOCOL (rev 10.4)

Table 1 Validation requirements based on VVS version 09.0 (EB 82 Annex 14), PS version 09.0 (EB 82 Annex 13), PCP version 09.0 (EB 82 Annex 15), GS4GG Principles & Requirements, and Guidelines for completing the PDD form version 01.0 (EB 66 Annex 9)

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
Part I Cover Page (KEY PROJECT INFORMATION)					
(a) Is the title of the project activity provided?	PDD		Title of the project is given as Çorum Solar Power Plant Project.	**OK**	**OK**
(b) Is a brief description of the project activity provided, including a summary of the scope of activities/ measures that are to be implemented within the project activity?	PDD		A brief description of the project activity is provided on cover page of PDD.	**OK**	**OK**
(c) Is implementation date of the project activity provided?	PDD		19/12/2017 25 Years and 00 Months	**OK**	**OK**
(d) Is project developer(s) indicated?	PDD		Galata Wind Enerji A.Ş.	**OK**	**OK**
(e) Is project representative(s) indicated?	PDD		Rüzgar Danışmanlık-Çağla Balcı Eriş	**OK**	**OK**
(f) Is the version number of the PDD indicated?	PDD		Version number of the PDD is given as 0.3	**OK**	**OK**
(g) Is the completion date of the PDD provided in DD/MM/YYYY format?	PDD		Completion date of the PDD is given as 30/07/2018.	**OK**	**OK**
(h) Are project participants indicated?	PDD		Galata Wind Enerji A.Ş. is the operating company of the project activity.	**OK**	**OK**
(i) Is the host party(ies) indicated?	PDD		Host party is given as Turkey	**OK**	**OK**
(j) Is certification pathway provided?	PDD		Pathway is given as Impact Statements &	**OK**	**OK**

			Products - SDG 13: Gold Standard Emissions Reductions		
(k) Is activity requirements applied provided?	PDD		It is provided as GS4GG	**OK**	**OK**
(l) Is the sectoral scope and selected methodology(ies) indicated?	PDD		AMS I.D Version 18 has been used and the sectoral scope is 1 (Energy industries (renewable - / non-renewable sources)	**OK**	**OK**
(m) Is the project type is provided?	PDD		Project type is given as regular.	**OK**	**OK**
(n) Are minimum 3 SDG impacts indicated?	PDD		SDG 7, SDG 8 and SDG 13 is provided.	**OK**	**OK**
(o) Is estimated amount of SDG Impact certified provided?	PDD		On cover page of PDD estimated amount of ER has been provided as 7,677 tonnes CO2e.This is not revised through revised EF.	**CAR01**	**OK**
Part II PDD					
Description of project					
A.1 Purpose and general description of project					
A.1.1 Is a brief description of the project activity provided, including a summary of the scope of activities/ measures that are to be implemented within the project activity?	PDD PS	31(b)	A brief description of the project activity is provided under section A.1 of the GS-VER-PDD according to references transparently.	**OK**	**OK**
A.1.2 Are the scenario existing prior to the start of project and baseline scenario indicated?	PDD		The scenario existing prior to the start of project and baseline scenario are indicated.	**OK**	**OK**
A.1.3 Does it explain how the project activity will reduce GHG emissions or increase GHG removals?	PS	31(c)	Project leads to reduction in GHGs and achieve sustainable development of the host country	**OK**	**OK**

A.1.4 Is the estimated of annual average and total GHG emission reductions for the chosen crediting period provided?	PDD		Estimated total emission reduction over the 7 year crediting period is provided under section A.1. as 38,384 tCO2e. This is not revised through revised EF.	**CAR02**	**OK**
A.1.5 Is a brief description of how the project activity contributes to sustainable development provided?	PDD		Sustainable development specific goals are provided under section A.1 of the GS-VER-PDD.	**OK**	**OK**
A.1.6 In order to determine whether the description of the proposed project activity in the PDD is accurate, complete, and provides an understanding of the proposed CDM project activity, does the DOE conducted a physical site visit to assess the Project? If not, please justify.	VVS	65	The physical site visit was conducted on 22/10/2018 by the validation team to validate the description of the project activity provided in the GS-VER-PDD.	**OK**	**OK**
A.1.7 For all other proposed CDM project activities not referred to in VVS paragraphs 65-66, does the DOE undertaken the validation of project description by reviewing available designs and feasibility studies and should conduct comparison analysis with equivalent projects, as appropriate.	VVS	67	The project activity is a small scale project and hence the DOE has undertaken a physical site visit to validate the project description. Hence this clause is not applicable.	**OK**	**OK**
A.1.8 If the proposed CDM project activity involves the alteration of an existing installation or process, does the project description state the differences resulting from the project activity compared to the pre-project situation?	VVS	68	Not applicable as the project activity is a Greenfield project.	**OK**	**OK**
A.2 Eligibility of the project under Gold Standard					
A.2.1 Does the project meets the eligibility criteria as per section 3.1.1 of GS4GG Principles & Requirements document	PDD		The eligibility criteria is provided under section A.2.	**OK**	**OK**

A.3	Is Legal ownership of products generated by the project and legal rights to alter use of resources required to service the project provided?	PDD		The project participant Galata Wind Enerji A.Ş. is the legal owner of the project and has the legal rights for the credits.	**OK**	**OK**
A.4	Location of project					
A.4.1	Is the host party(ies) indicated?	PDD		Turkey has ratified the Kyoto Protocol however not set any emission reduction target; hence, it is not listed as an Annex B country of the Kyoto Protocol and will not be a host for Clean Development Mechanism (CDM) or Joint Implementation (JI) projects until the end of 2012, because of its particular situation. There is no DNA in Turkey. Hence, the checklist question is N/A.	**OK**	**OK**
A.4.2	Is region/state/province etc. indicated?	PDD		Central Anatolian Region, Çorum	**OK**	**OK**
A.4.3	Is City/Town/Community etc. indicated?	PDD		The project site is located at Merkez district in Çorum Province.	**OK**	**OK**
A.4.4	Are the details of physical location of the project activity, including information allowing the unique identification of this project activity and a map, provided?	PDD		The detail of the project location is provided under section A.4.4 of the GS-VER-PDD. Under table 1 the coordinates reference is provided.	**OK**	**OK**
A.5	Technologies and/or measures					
A.5.1	Are there a list and the arrangement of the main manufacturing/ production technologies, systems and equipment involved?	PDD		The solar panels and invertors are the main components for SPP. The details are provided under section A.5.	**OK**	**OK**

A.5.1.1 Is the information about the age and average lifetime of the equipment based on manufacturer's specifications and industry standards, and existing and forecast installed capacities, load factors and efficiencies included in the description?	PDD		N/A	**OK**	**OK**
A.5.1.2 Are the monitoring equipments and their location in the systems included in the description?	PDD		N/A	**OK**	**OK**
A.5.2 Are energy and mass flows and balances of the systems and equipment included in the project activity provided?	PDD		Energy and mass flows and balances of the systems and equipment are described in GS-VER-PDD.	**OK**	**OK**
A.5.3 Are the types and levels of services provided by the systems and equipment that are being modified and/or installed under the project activity and their relation, if any, to other manufacturing/ production equipment and systems outside the project boundary provided?	PDD		Not applicable as it is a green field project.	**OK**	**OK**
A.5.4 Does the description clearly explain how the same types and levels of services provided by the project activity would have been provided in the baseline scenario?	PDD		It is provided under section A.5 how the same type and levels of services provided by the project activity would have been provided in the baseline scenario	**OK**	**OK**
A.5.5 Is a list of facilities, systems and equipment in operation under the existing scenario prior to the implementation of the project activity provided?	PDD		The baseline is described under section A.5. Section A.5 needs to be revised through revised EF.	**CAR03**	**OK**
A.5.6 Is a list of facilities, systems and equipment in the baseline scenario provided?	PDD		The baseline is described under section A.5.	**OK**	**OK**

A.5.7 Is a description of how technologies and measures and know-how to be used are transferred to the Host Party (ies) included?	PDD		Under section A.5 how technologies and measures and know-how are transferred to the Host Party described.	**OK**	**OK**
A.6 Scale of the Project	PDD		The scale of the project is provided as Small Scale.	**OK**	**OK**
A.7 Funding Sources of Project	PDD		The project activity does not have any public funding or Official Development Assistance (ODA) funding.	**OK**	**OK**
A.7.1 Is it indicated whether the project activity receives public funding from Annex I Parties?	PDD		Under section A.7 of the GS-VER-PDD mentions that "The proposed project is not using any ODA funding".	**OK**	**OK**
A.7.2 In case where public funding from Annex I Parties is involved, are followings provided? (a) Information on Parties providing public funding (b) Attached in Appendix 2: the affirmation obtained from such Parties that such funding does not result in a diversion of official development assistance, is separate from, and is not counted towards the financial obligations of those Parties	PS	34	N.A.	**OK**	**OK**
A.8 Assessment that project complies with 'gender sensitive' requirements					
A.8.1 Does the project reflect the key issues and requirements of Gender Sensitive designand implementation as outlined in the Gender Policy?	PDD	GS4GG Gender Equality Requirements & Guidelin	The project being a renewable energy project is not gender sensitive project. The project does not adversely impact women or men.	**OK**	**OK**

		es			
A.8.2 Does the project align with existing country policies, strategies and best practices?	PDD	GS4GG Gender Equality Requirements & Guidelines	The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.	**OK**	**OK**
A.8.3 Does the project address the questions raised in the Gold Standard Safeguarding Principles & Requirements document?	PDD	GS4GG Gender Equality Requirements & Guidelines	The questions are answered correctly through references.	**OK**	**OK**
A.8.4 Does the project apply the Gold Standard Stakeholder Consultation & Engagement Procedure Requirements	PDD	GS4GG Gender Equality Requirements & Guidelines	The GS continuous input mechanism was explained and discussed that whenever they have a complaint or a request, they can be able to fill in the grievance book which can be located at a convenient place.	**OK**	**OK**
SECTION B. Application of selected approved baseline and monitoring methodology					
B.1. Reference of methodology					
Is the selected methodology (ies) indicated with exact reference (number, title and version)?	PDD		The selected methodology is provided as AMS I.D Version 18.	**OK**	**OK**

Are the baseline and monitoring methodologies selected by the project participants the valid versions of those approved by the Board?	VVS	70	The selected baseline and monitoring methodologies are the valid versions.	**OK**	**OK**
Are there any tools and other methodologies to which the selected methodology indicated?	PDD		• "Tool to calculate project or leakage CO2 emissions from fossil fuel combustion", Version 03. • "Tool to calculate the emission factor for an electricity system", Version 06.0.0. • Demonstration of additionality of small scale project activities Version 10.0. • Tool to determine the remaining lifetime of equipment", Version 01.	**OK**	**OK**
Has specific guidance and/or clarifications provided by the Board with respect to the approved methodology and any applicable tools been applied?	VVS	71	N.A.	**OK**	**OK**
Is there any deviation or clarification requested for the approved methodology?	VVS	78-81	N.A.	**OK**	**OK**
B.2. Applicability of methodology					
Is the selected baseline and monitoring methodology applicable to the project activity and that the selected version valid at the time of submission of the proposed project activity for registration?	VVS	73-75	Project activity is renewable and small scale project so the valid version of AMS I.D methodology is used at the time of submission of the proposed project activity for registration.	**OK**	**OK**
Is the choice of the selected methodology(ies) justified by showing that the project activity meets each applicability conditions of the selected methodology(ies)?	PDD VVS	76	All applicability criteria listed In AMS I.D are met by the proposed GS VER project activity. As it is a grid connected power	**OK**	**OK**

			plant, the applicability criteria of the EF Tool are also met.		
Is it demonstrated that the project activity qualifies as Type I, II, and/or III during every year of the crediting period in accordance with applicable provisions for project activity eligibility in the Project standard?	PDD		N.A.	**OK**	**OK**
Is it determined that the project activity conforms to one or more of the approved small-scale methodologies applied in conjunction with the general guidelines to SSC CDM methodologies?	VVS	152	N.A.	**OK**	**OK**
Do the project participants explain the documentation that has been used as a basis for justification and provide the references, or include the documentation in Appendix 3 of the PDD?	PDD		References are indicated in Annex 1, Annex 2 and Annex 3 of the GS-VER-PDD. And also detailed emission factor calculations are indicated.	**OK**	**OK**
B.3 Project boundary					
Is the project boundary of the project activity defined based on the guidance of the selected methodology(ies)?	PDD		The project boundary includes the project site and all power plants connected physically to the Turkish National Grid. The emission sources are the emissions associated with the electricity that is displaced from the grid. These are calculated as the electricity supplied to the grid multiplied by an emission factor for the grid.	**OK**	**OK**
Is a flow diagram of the project boundary presented, physically delineating the project activity?	PDD		Project Boundary figure has been provided.	**OK**	**OK**
Does the flow diagram include the equipment, systems and flows of mass and energy described? In particular, is	PDD			**OK**	**OK**

the emission sources and GHGs included in the project boundary and the data parameters to be monitored indicated in the diagram?	VVS	82	Single Line Diagram has been provided.		
B.4 Establishment and description of baseline scenario					
Is an explanation how the baseline scenario is established in accordance with the selected baseline methodology provided?	PDD VVS	89	The project applied CDM-EB approved "AMS I.D: Grid-connected renewable electricity generation – Version 18.0.0."	**OK**	**OK**
When establishing the baseline scenario, and where "future anthropogenic emissions by sources are projected to rise above current levels due to the specific circumstances of the host Party", do the project participants follow the "Guidelines on the consideration of suppressed demand in CDM methodologies"?	PS	42	N.A.	**OK**	**OK**
Does the PDD explain and justify the key assumptions and rationale, provide and explain all data used to establish the baseline scenario (variables, parameters, data sources etc.) preferably in a tabular form, and provide all relevant documentation and/or references?	PDD		PDD explain and justify the key assumptions and rationale, provide and explain all data used to establish the baseline scenario.	**OK**	**OK**
To determine the performance of equipment used in the proposed small-scale CDM project activity, do project participants use:	PS	91			
The appropriate value specified in the selected methodology;	PS	91(a)	N.A.	**OK**	**OK**
The national standard for the performance of the equipment type (project participants shall identify the standard used) if the value specified in is not available;	PS	91(b)	N.A.	**OK**	**OK**
An international standard for the performance of the	PS	91(c)		**OK**	**OK**

equipment type, such as International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) standards (project participants shall identify the standard used) if the value specified in is not available;			N.A.		
The manufacturer's specifications, provided that they are tested and certified by national or international certifiers, if the value specified in is not available;	PS	91(d)	N.A.	**OK**	**OK**
Performance data from test results conducted by an independent entity for equipment installed under the project activity if the value specified in is not available.	PS	91(e)	N.A.	**OK**	**OK**
Are the documents and sources referred to in the PDD correctly quoted and interpreted and are they crosschecked with other verifiable and credible sources, such as local expert opinion, if available?	VVS	91	References are correctly provided.	**OK**	**OK**
Does the PDD provide a description of the identified baseline scenario, including a description of the technology that would be employed and/or the activities that would take place in the absence of the proposed project activity?	VVS	92	The baseline scenario is identified according to the "Tool to calculate the emission factor for an electricity system, Version 06.0.0"	**OK**	**OK**
Have all applicable CDM requirements been taken into account in the identification of the baseline scenario for the proposed project activity?	VVS	93	The baseline scenario is identified according to the "Tool to calculate the emission factor for an electricity system, Version 06.0.0"	**OK**	**OK**
Has relevant national and/or sectoral policies and circumstances (type E+ or E-), such as sectoral reform initiatives, local fuel availability, power sector expansion plans, and the economic situation in the project sector been taken into account?	VVS	93	N.A.	**OK**	**OK**

Does the PDD provide a transparent description of the baseline scenario?	PDD		Transparent description of the baseline scenario is provided.	**OK**	**OK**
B.5 Demonstration of additionality					
Is the project activity demonstrated additional in accordance with one of options below?	PDD				
Attachment A of Appendix B: In such cases, project participants should also follow the "Non-binding practice examples to demonstrate additionality for SSC project activities".	PS VVS	96(a) 159	N.A.	**OK**	**OK**
Any applicable additionality tool;	PS	96(b)	According to Additionality of small scale Project Activity (ver. 9 EB 68 Annex 27), it goes on to provide a positive list of grid-connected renewable electricity generation technologies that are automatically defined as additional, without further documentation of barriers	**OK**	**OK**
Guidelines for demonstrating additionality of microscale project activities"? if the proposed project activity meets one of the following criteria: a) Type I: Project activities up to 5 MW that employ renewable energy as their primary technology; b) Type II: Energy efficiency project activities that aim to achieve energy savings at a scale of no more than 20 GWh per year; or c) Type III: Other project activities not included in Type I or Type II that aim to achieve GHG emissions reductions at a scale of no more	PS VVS	96(c) 160	N.A.	**OK**	**OK**

than 20 ktCO2e per year.					
Step 2: If investment analysis is used:					
Are all relevant assumptions and parameters used in the analysis listed?	PDD		N.A.	**OK**	**OK**
Is the latest version of the "Guidelines on the assessment of investment analysis" applied?	VVS	118	N.A.	**OK**	**OK**
Is project activity one of the following cases in regards to investment analysis:	VVS	119			
The proposed project activity would produce no financial or economic benefits other than CDM-related income;	VVS	119(a)	N.A.	**OK**	**OK**
The proposed project activity is less economically or financially attractive than at least one other credible and realistic alternative;	VVS	119(b)	N.A.	**OK**	**OK**
The financial returns of the proposed project activity would be insufficient to justify the required investment.	VVS	119(c)	N.A.	**OK**	**OK**
Has the accuracy of financial calculations carried out for investment analysis been verified as follows:	VVS	120			
Determine the suitability of the financial indicator selected by the project participants and conduct a thorough assessment of all parameters and assumptions used in calculating such financial indicators, and determine the accuracy and suitability of these parameters using available evidence and applying its expertise in relevant accounting practices	VVS	120(a)	N.A.	**OK**	**OK**
Cross-check the parameters against third-party or publicly available sources, such as invoices or price indices	VVS	120(b)	N.A.	**OK**	**OK**

Review, as appropriate, feasibility reports, public announcements and annual financial reports related to the proposed project activity and the project participants	VVS	120(c)	N.A.	**OK**	**OK**
Assess the correctness of computations carried out and documented by the project participants; and	VVS	120(d)	N.A.	**OK**	**OK**
Assess, where applicable, the sensitivity analysis by the project participants to determine under what conditions variations in the result would occur, and the likelihood of these conditions	VVS	120(e)	N.A.	**OK**	**OK**
If benchmark analysis is used:					
Is the benchmark clearly indicated?	PDD		N.A.	**OK**	**OK**
Is the type of benchmark applied suitable for the type of financial indicator presented?	VVS	121(a)	N.A.	**OK**	**OK**
Does the risk premiums applied in determining the benchmark reflect the risks associated with the project type or activity?	VVS	121(b)	N.A.	**OK**	**OK**
Is it reasonable to assume that no investment would be made at a rate of return lower than the benchmark?	VVS	121(c)	N.A.	**OK**	**OK**
If cost comparison is used:					
Are the scenarios compared described?	PDD		N.A.	**OK**	**OK**
If PPs rely on values from FSR:	VVS	122			
Has the FSR been the basis of the decision to proceed with the investment in the project?	VVS	122(a)	N.A.	**OK**	**OK**
Are the values used in the PDD and associated annexes fully consistent with the FSR? If inconsistencies occur,	VVS	122(b)	N.A.	**OK**	**OK**

was the appropriateness of the values validated?					
On the basis of its specific local and sectoral expertise, is confirmation provided, by cross-checking or other appropriate manner, that the input values from the FSR are valid and applicable at the time of the investment decision?	VVS	122(c)	N.A.	**OK**	**OK**
If barriers analysis is used:					
Is the "Guidelines for objective demonstration and assessment of barriers" followed?	PS	48	N.A.	**OK**	**OK**
Is it ensured that only the most relevant barriers selected?	PDD		N/A	**OK**	**OK**
Is the credibility of the barriers justified with key facts and/or assumptions and the rationale?	PDD		N/A	**OK**	**OK**
Is it ensured that issues that have a direct impact on the financial returns of the project activity are not considered as barriers but assessed by investment analysis? This does not refer to either: (a) Risk related barriers (b) Barriers related to the unavailability of sources of finance for the project activity	VVS	125	N/A	**OK**	**OK**
Were the barriers determined as real?	VVS	126(a)	N/A	**OK**	**OK**
Were the barriers determined as preventing the implementation of the project activity but not the implementation of at least one of the possible alternatives?	VVS	126(b)	N/A	**OK**	**OK**
Common Practice Analysis					

If the project type is first-of-its kind, do the project participants consider "Guidelines on additionality of first-of-its-kind project activities"?	VVS PS	128 49(a)	N.A.	**OK**	**OK**
If the project type is not first-of-its kind, has common practice analysis been conducted considering "Guidelines on common practice"?	VVS PS	128 49(b)	N.A.	**OK**	**OK**
Was it assessed whether the geographical scope of the common practice analysis is appropriate for the assessment related to the project activity's technology or industry type?	VVS	129(a)	N/A	**OK**	**OK**
Was it determined to what extent similar and operational projects, other than CDM project activities, and have been undertaken in the defined region?	VVS	129(b)	N/A	**OK**	**OK**
Are similar and operational projects, other than CDM project activities, already "widely observed and commonly carried out" in the defined region? Is it assessed whether there are essential distinctions between the proposed CDM project activity and the other similar activities?	VVS	129(c)	N/A	**OK**	**OK**
Prior consideration of the clean development mechanism					
If the project activity start date prior to the date of publication of the PDD for stakeholder comments, were the CDM benefits considered necessary in the decision to undertake the project as a proposed CDM project activity?	PDD VVS	105	The prior consideration has been confirmed as 08/02/2017.	**OK**	**OK**
Is the start date of the project activity, reported in the PDD, the earliest date at which either the implementation or construction or real action of a project activity begins?	VVS	106	The prior consideration has been confirmed as 08/02/2017.	**OK**	**OK**

If the project activity requires construction, retrofit or other modifications, is it ensured that the date of commissioning not considered as the project activity start date?	VVS	106	The prior consideration has been confirmed as 08/02/2017.	**OK**	**OK**
Is it a project activity with a start date on or after 02 August 2008, or before 02 August 2008?	VVS	106	The prior consideration has been confirmed as 08/02/2017.	**OK**	**OK**
For a project activity with a start date on or after 02 August 2008, are the following provisions to be satisfied:					
Has the PP informed the Host Party DNA and the UNFCCC secretariat in writing of the commencement of the project activity and of their intention to seek CDM status within 180days of the project activity start date?	PS VVS	27 107	N.A.	**OK**	**OK**
Do the project participants inform the secretariat of the progress of the project activity every subsequent two years after the initial notification, until the PDD regarding the project activity has been published for global stakeholder consultation or, a new baseline and monitoring methodology is proposed or a revision of an approved baseline and monitoring methodology is requested for the project activity before the start date?	PCP	9	N.A.	**OK**	**OK**
For a project activity with a start date before 02 August 2008, are the following elements to be satisfied:	VVS	108			
Is evidence of their awareness of the CDM prior to the project activity start date, and that the benefits of the CDM were a decisive factor in the decision to proceed with the project provided?	PS VVS	28(a) 108	N.A.	**OK**	**OK**
Are evidence that continuing and real actions were taken to secure CDM status for the project in parallel with its	PS VVS	28(b) 108-110	N.A.	**OK**	**OK**

implementation provided?					
Is an implementation timeline of the proposed CDM project activity provided?	PS	28(c)	N.A.	**OK**	**OK**
B.6 Sustainable Development Goals (SDG) outcomes					
Is the relevant target for each of the three SDGs provided under section B.6.1?	PDD		SDG 13, SDG 7 and SDG 8 targets are provided under section B.6.1. Targets and indicators are not determined for this SDGs.	**CAR04**	**OK**
Is Explanation of methodological choices/approaches for estimating the SDG outcome indicated?	PDD		Section B 6.2 not determined through SDG targets and indicators.	**CAR05**	**OK**
Emission reductions					
Explanation of methodological choices					
Does the PDD explain how the methods or methodological steps in the selected methodology, for calculating project emissions, baseline emissions, leakage emissions and emission reductions are applied?	PDD VVS	96	The SDG 13: Climate Action section of the GS-VER-PDD describes the steps for the calculation of emission reduction in accordance with AMS I.D Version 18.	**OK**	**OK**
In case the methogology(ies) provide different options to choose from, does the PDD indicate and justify which option is chosen for the project activity?	PDD VVS	97	The baseline emission cases are line with the methodology AMS I.D Version 18 and “Tool to calculate the emission factor for an electricity system Version 06.0.0”.	**OK**	**OK**
In case the methodology(ies) allow different default values, does the PDD indicate and justify which of the default values have been chosen for the project activity?	PDD		The baseline emission cases are line with the methodology AMS I.D Version 18 and “Tool to calculate the emission factor for an electricity system Version 06.0.0”.	**OK**	**OK**
Data and parameters fixed ex ante					

If data and parameters will not be monitored throughout the crediting period of the proposed project activity but have already been determined and will remain fixed throughout the crediting period, are all data sources and assumptions: a) Appropriate and correct? b) Applicable to the proposed CDM project activity? c) Resulting in a conservative estimate of the emission reductions?	PDD VVS	98	The baseline emission cases are line with the methodology AMS I.D Version 18 and "Tool to calculate the emission factor for an electricity system Version 06.0.0".	**OK**	**OK**
For each piece of data or parameter, are tables provided in accordance with the instructions?	PDD		Tables for each piece of data and parameters are provided in accordance with the instructions.	**OK**	**OK**
Ex ante calculations of emission reductions					
Is a transparent ex ante calculation of project emissions, baseline emissions (or, where applicable, direct calculation of emission reductions) and leakage emissions expected during the crediting period, applying all relevant equations provided in the approved methodology provided?	PDD		The baseline emission cases are line with the methodology AMS I.D Version 18 and "Tool to calculate the emission factor for an electricity system Version 06.0.0".	**OK**	**OK**
Is the information how each equation is applied, in a manner that enables the reader to reproduce the calculation, provided?	PDD		The information how each equation is applied to reproduce the calculation is provided.	**OK**	**OK**
Is the information of additional background information and/or data provided in Appendix 4, including relevant electronic spreadsheets?	PDD		OM calculation references are based on 2011-2015. BM calculations are based on year 2015. Please clarify these references are the latest or not. If revisions will be performed revised	**CL01**	**OK**

			Baseline excel sheet need to be provided to DOE..		
Is a sample calculation for each equation used provided, substituting the values used in the equations?	PDD		Sample calculations for each equation used are provided, substituting the values used in the equations.	**OK**	**OK**
If the proposed small-scale CDM project activity involves more than one component, does the project participants provide ex ante calculations of baseline, project and leakage GHG emissions as well as GHG emission reductions for each year of the crediting period and for each component separately?	PDD PS	90	N.A N.A.	 **OK**	**OK**
In cases where leakage is to be considered in the proposed small-scale CDM project activity; do project participants consider leakage only within the boundaries of non-Annex I Parties?	PS	92	N.A.	**OK**	**OK**
In case of replacement of existing equipments, do project participants estimate the point in time where the existing equipments would be replaced in the absence of the proposed small-scale CDM project activity in accordance with the "Tool to determine the remaining lifetime of equipment"? For household devices/ appliances, project participants may disregard the remaining lifetime.	PS PS	93 94	N.A.	**OK**	**OK**
Do norms, specifications, standards and test procedures cited in the selected methodology refer to the latest version of the documentation available at the time of submission of the PDD to the DOE for validation?	PS	95	Norms, specifications, standards and test procedures are cited in the selected methodology refer to the latest version of the documentation.	**OK**	**OK**
B.6.3. Ex ante estimation of outcomes linked to each of the three SDGs					

Are the results of the ex-ante estimation of emission reductions for all years of the crediting period, provided in a tabular format?	PDD		The results of the ex-ante estimation of emission reductions for all years of the crediting period are provided in a tabular format.	**OK**	**OK**
Is BM, OM and CM is correctly calculated through "Tool to calculate the emission factor for an electricity system"			Baseline Study excel sheet is provided to the validation team. The actual references have been used.	**OK**	**OK**
If the project activity involves more than one component, does the PDD provide a separate table for each of the component or each of the selected methodology(ies), and whether the PDD provide a table showing the aggregate emission reductions of the project activity?	PDD		Section B.6.3 not revised through SDG' Targets and Indicators.	**CAR06**	**OK**
B.6.4. Summary of ex ante estimates of each SDG outcome					
Is SDG outcomes provided in tabular format under section B.6.4..			SDG 7, SDG 8 and SDG 13 outcomes are provided in tabular format under section B.6.4.Section B.6.4 not determined though most actual references.	**CAR07**	**OK**
B.7. Monitoring plan					
B.7.1. Data and parameters to be monitored					
Is specific information on how the data and parameters that need to be monitored would actually be collected during monitoring included?	PDD		EGfacility,y parameter is provided under the monitoring plan section of the GS-VER-PDD. All specific information on how data need to be monitored and collected during monitoring is provided. Under section B.7.1 Relevant SDG Indicator not detailed through GS4GG.	**OK**	**OK**

For each data or parameter, is the information completed, in a tabular format:					
The source(s) of data that will be actually used for the proposed project activity (e.g. which exact national statistics). Where several sources may be used, explain and justify which data sources should be preferred.	PDD		Net electricity supplied by the project activity to the grid will be monitored continuously using a cumulative electricity meter. Data will be archived monthly. The main source ise OSOS Records. Values will be double checked against YEDAŞ Forms. The meters fist index protocol, first calibration, and production year details are not determined under section B.7.1 of GS-VER-PDD.	**CAR08**	**OK**
Is an estimate of the data/ parameter that will be monitored during the crediting period provided?	PDD		Yes, estimate for all parameters that will be monitored during the crediting period, has been tabulated in the B.7.1 of GS-VER-PDD.	**OK**	**OK**
Is the estimate provided in the PDD for this monitored data or parameter reasonable?	VVS	98	Data and parameters are reasonable.	**OK**	**OK**
Where data or parameters are to be measured, does it specify the measurement methods and procedures, standards to be applied, accuracy of the measurements, person/entity responsible for the measurements, and, in case of periodic measurements, the measurement intervals?	PDD		The net electricity generation supplied to the grid will be measured continuously by TEIAS meters and recorded monthly.	**OK**	**OK**
Is a description of the QA/QC procedures including the calibration procedures, where applicable, provided?	PDD		Calibration procedures of the meters are clearly described through the references under section B7.3 of the GS-VER-PDD.	**OK**	**OK**

Is the purpose of data indicated?	PDD		There is a statement about the purpose of the monitoring data under section B.7.3 of the GS-VER-PDD.	**OK**	**OK**
Is this monitoring plan based on the approved monitoring methodology applied to the proposed CDM project activity?	VVS	131	The monitoring plan is based on the AMS I.D Version 18.	**OK**	**OK**
Does the monitoring plan contain all necessary parameters?	VVS	132(a)	The B.7.3 section of the GS-VER-PDD contains all the parameters in accordance with the applied methodology AMS I.D Version 18.	**OK**	**OK**
Do the means of monitoring described in the plan comply with the requirements of the methodology including applicable tool(s)?	VVS	132(a)	The monitoring plan is based on the AMS I.D Version 18.	**OK**	**OK**
Are the monitoring arrangements described in the monitoring plan feasible within the project design?	VVS	132(b)	The monitoring plan is based on the AMS I.D Version 18.	**OK**	**OK**
Are the means of implementation of the monitoring plan, including the data management and quality assurance and quality control procedures, sufficient to ensure that the emission reductions achieved by/resulting from the proposed CDM project activity can be reported ex post and verified?	VVS	132(b)	The monitoring plan is based on the AMS I.D Version 18.	**OK**	**OK**
B.7.2. Sampling plan					
Are there any data and parameters monitored in section B.7.1 above to be determined by a sampling approach?	PDD		N/A	**OK**	**OK**
Is a description of the sampling plan provided in	PDD			**OK**	**OK**

accordance with the recommended outline for a sampling plan in the "Standard for sampling and surveys for CDM project activities and programme of activities"?			N/A		
B.7.3. Other elements of monitoring plan					
Is the operational and management structure, that the project operator will implement in order to monitor emission reductions and any leakage generated by the project activity, described in the PDD?	PDD PS	56(a)	N/A	**OK**	**OK**
Are the responsibilities for and institutional arrangements for data collection and archiving clearly indicated?	PDD PS	56(c)	Yes, the responsibilities for and institutional arrangements for data collection and archiving clearly indicated under section B.7.3 of the GS-VER-PDD.	**OK**	**OK**
Does the monitoring plan include provisions to ensure that data monitored and required for verification and issuance be kept and archived electronically for two years after the end of the crediting period or the last issuance of CERs, whichever occurs later?	PS	56(b)	Yes, the monitoring plan described in the GS-VER-PDD states that data monitored and required for verification and issuance be kept and archived electronically for two years after the end of the crediting period or the last issuance of VERs, whichever occurs later.	**OK**	**OK**
Does the monitoring plan include uncertainty levels, methods and the associated accuracy level of measuring instruments to be used for various parameters and variables?	PS	56(e)	Monitoring plan includes uncertainty levels and the associated accuracy level of measuring instruments under section B.7.3 of the GS-VER-PDD.	**OK**	**OK**
Does the monitoring plan include specifications of the calibration frequency for the measuring equipment's?	PS	56(f)	There is a statement about the calibration frequency for the measuring devices under section B.7.3 of GS-VER-PDD. The connection Agreement has been revised on 03/02/2017.	**OK**	**OK**

SECTION C. Duration and crediting period					
C.1. Duration of project activity					
C.1.1. Start date of project activity					
Is the start date of the project activity stated, in the format of DD/MM/YYYY?	PDD		The start date of the project activity is stated as 06/07/2017 under section C.1.1 of GS-VER-PDD.	**OK**	**OK**
Does it describe how the start date has been determined and provide evidence to support this date?	PDD		The statement and evidence under section C.1.1 of GS-VER-PDD about how the start date has been determined.	**OK**	**OK**
C.1.2 Expected operational lifetime of project activity					
Is the expected operational lifetime of the project activity stated in years and months?	PDD		The reference of the expected operational lifetime of the project activity is provided under section C.1.2 of GS-VER-PDD.	**OK**	**OK**
C.2. Crediting period of project activity					
C.2.1. Type of crediting period					
Is the type of crediting period chosen for the project activity stated?	PDD		Renewable crediting period is chosen.	**OK**	**OK**
In case a renewable crediting period was chosen, does it indicate whether it is the first, second or third?	PDD		It is provided that which crediting period is chosen (first, second, etc.) under section C.2.1 of the GS-VER-PDD. This is second crediting period.	**OK**	**OK**
C.2.2. Start date of crediting period					
Is the start date of crediting period stated in the format of DD/MM/YYYY?	PDD		Provided as 19/12/2017.(Full capacity electricity generation has started according to Acceptance Protocol by Ministry)	**OK**	**OK**

C.2.2. Total length of crediting period					
Is the length of crediting period stated in years and months?	PDD		The length of the second crediting period is 7 years, 0 months.	**OK**	**OK**
SECTION D. Safeguarding principles assessment					
D.1. Analysis of social, economic and environmental impacts		PDD & GS4GG	Ref: GS4GG Safeguarding Principles & Requirements		
Are the principles divide for Social & Economic Safeguarding Principles, Environmental & Ecological Safeguarding Principles.		PDD & GS4GG	Social & Economic Safeguarding Principles, Environmental & Ecological Safeguarding Principles are discussed under section D.1.	**OK**	**OK**
Social & Economic Safeguarding Principles					
Is Principle 1- Human Rights discussed through available references?		*PDD & GS4GG*	Principle-1 is discussed through available references.	**OK**	**OK**
Is Principle 2- Gender Equality and Women's Rights discussed through available references?		*PDD & GS4GG*	Principle-2 is discussed through available references.	**OK**	**OK**
Is Principle 3 - Community Health, Safety and Working Conditions discussed through available references?		*PDD & GS4GG*	Principle-3 is discussed through available references.	**OK**	**OK**
Is Principle 4-Cultural Heritage, Indigenous Peoples, Displacement and Resettlement discussed through available references?		*PDD & GS4GG*	Principle-4 is discussed through available references.	**OK**	**OK**
Is Principle 5- Corruption discussed through available references?		*PDD & GS4GG*	Principle-5 is discussed through available references.	**OK**	**OK**
Is Principle 6- Economic Impacts discussed through available references?		*PDD & GS4GG*	Principle-6 is discussed through available references.	**OK**	**OK**

Environmental & Ecological Safeguarding Principles					
Is Principle 1-Climate and Energy discussed through available references?		*PDD & GS4GG*	Principle-1 is discussed through available references.	**OK**	**OK**
Is Principle 2-Water discussed through available references?		*PDD & GS4GG*	Principle-2 is discussed through available references.	**OK**	**OK**
Is Principle 3- Environment, ecology and land Use discussed through available references?		*PDD & GS4GG*	Principle-3 is discussed through available references.	**OK**	**OK**
Environmental impacts					
Analysis of the environmental impacts					
If required by the host Party, is an analysis of the environmental impacts of the proposed small-scale CDM project activity carried out and a summary of the analysis of the environmental impacts of the project activity and references to all related documentation provided?	PDD PS	99	Reference for the EIA document is provided.	**OK**	**OK**
SECTION E. Local stakeholder consultation					
E.1. Solicitation of comments from local stakeholders					
Did the project participants complete a local stakeholder consultation process and that due steps were taken to engage stakeholders and solicit comments for the proposed project activity?	VVS	138	A brief description of complementary stakeholder consultation process and feedback round are described under section E.1 of the GS-VER-PDD. The stakeholder feedback round details are not determined under section E.2 of GS-VER-PDD.	**CAR09**	**OK**
Is the process by which comments from local stakeholders have been invited provided?	PDD		The process by which comments from stakeholder have been invited. Details are provided under section E.1.	**OK**	**OK**

E.2. Summary of comments received						
Are stakeholders that have made comments identified?	PDD		A brief summary of the comments received from the stakeholder is not described under E.3 section of the GS-VER-PDD.		**CAR10**	**OK**
Have comments by local stakeholders that can reasonably be considered relevant for the proposed CDM project activity been invited?	VVS	139 (a)	Comments by local stakeholders that can reasonably be considered by the project activity.		**OK**	**OK**
Is the summary of comments provided complete?	PDD VVS	139 (b)	The summary of comments are completely provided under section E.2.		**OK**	**OK**
E.3. Report on consideration of comments received						
Is information provided to demonstrate that all comments received have been considered?	PDD VVS	139 (c)	Please see CAR10		**OK**	**OK**
Approval and authorization						
General						
Is it indicated whether the letter(s) of approval from Party(ies) available at the time of submitting the PDD to the validating DOE?	PDD		N.A.		**OK**	**OK**
Approval			COUNTRY A	COUNTRY B		
Has the DNA of each Party indicated as being involved in the proposed CDM project activity in section A.3 of the PDD provided a written letter of approval?	VVS	38	N.A.	N.A.	**OK**	**OK**
Does the letter of approval from DNA of each Party	VVS	39				

confirm that : (a) The Party is a Party of the Kyoto Protocol (b) The participation is voluntary (c) In the case of the host Party, the proposed CDM project activity contributes to the sustainable development of the country (d) Refers to the precise proposed CDM project activity title in the PDD being submitted for registration			N.A.	N.A.	**OK**	**OK**
Is(are) the letter(s) of approval unconditional with respect to above?	VVS	40	N.A.	N.A.	**OK**	**OK**
Has(ve) the letter(s) of approval been issued by the respective Party's DNA? If there is doubt with respect to above, was it verified with the DNA that the letter of approval is valid for the proposed CDM project activity under validation?	VVS	41,42	N.A.	N.A.	**OK**	**OK**
Does the letter of approval by the DNA of the host Party confirm the contribution of the proposed CDM project activity to the sustainable development of the host Party?	VVS	51	N.A.		**OK**	**OK**
Authorization						
Has each project participant been authorized by at least one Party involved in a letter of approval?	VVS	45	N.A.		**OK**	**OK**
Is the information in tabular form in the PDD consistent with the contact information for project participants	VVS	46	N.A.		**OK**	**OK**

provided?					
Are any entities other than those approved as project participants included in the PDD?	VVS	47	N.A.	**OK**	**OK**
Has the approval of participation issued from the relevant DNA? And if in doubt, was it verified with the DNA that the approval of participation is valid for the proposed CDM project participants?	VVS	48	N.A.	**OK**	**OK**
Part III Others					
A. Appendixes of PDD					
Appendix 1: Contact information of project participants	PDD				
For each organization listed in section A.4 of PDD, is the table in PDD completed, with the following mandatory fields: Organization, City, postcode, Country, Telephone and Fax, e-mail and Name of contact person?	PDD		Yes, the project participant's contact details have been tabulated in the PDD.	**OK**	**OK**
Appendix 2: Affirmation regarding public funding					
If applicable, is the affirmation obtained from Parties providing public funding to the project Activity attached?	PDD		No public funding is involved in the project activity.	**OK**	**OK**
Appendix 3: Applicability of the selected methodology(ies)					
Is the background information on the applicability of the selected methodology provided?	PDD		N/A	**OK**	**OK**
Appendix 4: Further background information on ex					

ante calculation of emission reductions					
Is the background information on the ex-ante calculation of emission reductions provided?	PDD		N/A	**OK**	**OK**
Appendix 5: Further background information on monitoring plan					
Is the background information used in the development of the monitoring plan provided?	PDD		N/A	**OK**	**OK**
Appendix 6: Summary of post registration changes					
Is a summary of the post registration changes provided?	PDD		N.A.	**OK**	**OK**
Global Stakeholder Consultation					
Is there any comment on the PDD of the proposed project activity received during Global Stakeholder Consultation process?	VVS	34	A brief summary of the comments received from the stakeholder is described under section E.1. of PDD.	**OK**	**OK**
If yes, have all comments been taken into account during the validation of the proposed project activity?	VVS	35	There were no concerns on the impact of the of the project activity to sustainable development and environmental.	**OK**	**OK**
If comments indicate that the proposed project activity does not comply with the CDM requirements and are not substantiated, is there any further clarification from the entity providing the comment?	VVS	36	There were no concerns on the impact of the of the project activity to sustainable development and environmental.	**OK**	**OK**
If yes, how comments received have been taken due account?	VVS	36	N/A	**OK**	**OK**
If no, are the comments as originally provided proceeded to assess?	VVS	36	N/A	**OK**	**OK**
Modalities of Communications (MoC)					

Has the corporate identity of all project participants and focal points included in MoC statement, as well as the personal identities, including specimen signatures and employment status, of their authorized signatories been validated by:	VVS	53	N.A.	**OK**	**OK**
Directly checking evidence for corporate, personal identity and other relevant documentation; or	VVS	54(a)	N.A.	**OK**	**OK**
Notarized documentation; or	VVS	54(b)	N.A.	**OK**	**OK**
Written confirmation from the project participant or the coordinating/managing entity that all corporate and personal details, including specimen signatures, are valid and accurate.	VVS	54(c)	N.A.	**OK**	**OK**
If above was chosen, is it ensured that the MoC statement is received from a project participant with whom the DOE has a contractual relationship?	VVS	55	N.A.	**OK**	**OK**
If above was chosen, is it ensured that the official who submits the MoC statement to the DOE and the official who signed the written confirmation (if a different person) is/are duly authorized to do so on behalf of the respective project participant?	VVS	56	N.A.	**OK**	**OK**
If it is unable to validate the requirements by applying to above, are any further validation activities performed?	VVS	57	N.A.	**OK**	**OK**
Has the latest version of the form “Modalities of Communication statement” (F-CDM-MOC) been used?	VVS	60(a)	N.A.	**OK**	**OK**
Is the information required as per F-CDM-MOC, including	VVS	60(b)	N.A.	**OK**	**OK**

its annex 1, correctly completed?					
Do the project participant's authorized signatories signing the F-CDM-MOC correspond to the project participant's authorized signatories included in F-CDM-MOC, annex 1?	VVS	60(c)	N.A.	**OK**	**OK**

Table 3 Resolution of Corrective Action and Clarification Requests

Draft report clarifications and corrective action requests by validation team	**Ref. to checklist question in table 1 and 2**	**Summary of project owner response**	**Validation team conclusion**
CAR01 On cover page of PDD estimated amount of ER has been provided as 7,677 tonnes CO_2e.This is not revised through revised EF.		EF has been revised accordingly,so estimated amount of ER has been changed as 7,880 tons CO_2e throughout the PDD.	**Review 1:** ER has been revised accordingly. **The corrective action request has been closed.**
CAR02 Estimated total emission reduction over the 7 year crediting period is provided under section A.1. as 38,384 tCO2e. This is not revised through revised EF.		Estimated total emission reduction over the 7 year crediting period is previsedas 39,399 tCO_2e throughout the PDD.	**Review 1:** ER has been revised accordingly. **The corrective action request has been closed.**
CAR03 The baseline is described under section A.5. Section A.5 needs to be revised through revised EF		Section A.5 of the PDD has been revised accordingly.	**Review 1:** Section A.5 has been revised. **The corrective action request has been closed.**

CAR04 SDG 13, SDG 7 and SDG 8 targets are provided under section B.6.1. Targets and indicators are not determined for this SDGs.		SDG 7, SDG 8 and SDG 13 targets and indicators have been revised under section B.6.1 of the PDD.	**Review 1:** SDG7, SDG 8 and SDG 13 has been revised. **The corrective action request has been closed.**
CAR05 Section B 6.2 not determined through SDG targets and indicators.		SDG 7, SDG 8 and SDG 13 targets and indicators have been determined under section B.6.2 of the PDD.	**Review 1:** SDG7, SDG 8 and SDG 13 has been revised. **The corrective action request has been closed.**
CAR06 Section B.6.3 not revised through SDG' Targets and Indicators.		SDG 7, SDG 8 and SDG 13 targets and indicators have been revised under section B.6.3 of the PDD	**Review 1:** SDG7, SDG 8 and SDG 13 has been revised. **The corrective action request has been closed.**
CAR07 SDG 7, SDG 8 and SDG 13 outcomes are provided in tabular format under section B.6.4.Section B.6.4 not determined though most actual references.		SDG 7, SDG 8 and SDG 13 has been revised accordingly under section B.6.4 of the PDD	**Review 1:** SDG7, SDG 8 and SDG 13 has been revised. **The corrective action request has been closed.**

CAR08 The meters fist index protocol, first calibration, and production year details are not determined under section B.7.1 of GS-VER-PDD.		The meters fist index protocol and fiirst calibration year details are determined under section B.7.1 of GS-VER-PDD	**Review 1:** Section B.7.1 has been revised accordingly. **The corrective action request has been closed.**
CAR09 A brief description of stakeholder consultation process and feedback round are described under section E.1 of the GS-VER-PDD. The stakeholder feedback round details are not determined under section E.2 of GS-VER-PDD.		The stakeholder feedback round details have been determined under section E.2 of the PDD.	**Review 1:** Feedback round details are added under section E.2. **The corrective action request has been closed.**
CAR10 A brief summary of the comments received from the stakeholder is not described under E.3 section of the GS-VER-PDD.		A brief summary of the comments received from the stakeholder has been described under E.3 section of the the PDD.	**Review 1:** A brief summary of the comments received from the stakeholders has been added under section E.3 **The corrective action request has been closed.**

CL01 OM calculation references are based on 2011-2015. BM calculations are based on year 2015. Please clarify these references are the latest or not. If revisions will be performed revised Baseline excel sheet need to be provided to DOE..		OM, BM and so CM has been revised according to new latest references. Baseline excel sheet has been revised accordingly and provided to the DOE.	**Review 1:** OM, BM and so CM has been revised accordingly. **The clarification request has been closed.**