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# GS PROJECT RENEWAL OF CREDITING PERIOD VALIDATION REPORT

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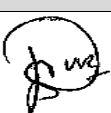
Samsun Avdan Enerji Üretim ve Tic. A.Ş.

Samsun Landfill Gas to Energy

Project, Turkey

IN

Turkey

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                      |                                                                                                                                                                                                                                    |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Organizational Unit:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Re Carbon Ltd. Carbon Department                                     |                                                                                                                                                                                                                                    |                         |
| <b>Project Title:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Samsun Landfill Gas to Energy Project, Turkey                        |                                                                                                                                                                                                                                    |                         |
| <b>Project Number:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Client:</b>                                                       | <b>Current PDD Version:</b>                                                                                                                                                                                                        |                         |
| 544                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Samsun Avdan Enerji Üretim ve Tic. A.Ş.                              | 09                                                                                                                                                                                                                                 |                         |
| <b>Date of First Issue:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Date of Current Version:</b>                                      | <b>Version Number:</b>                                                                                                                                                                                                             | <b>Number of Pages:</b> |
| 26/04/2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22/01/2020                                                           | 3.1                                                                                                                                                                                                                                | 85                      |
| <b>Summary:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                      |                                                                                                                                                                                                                                    |                         |
| <b>Host Country:</b> Turkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                                    |                         |
| <b>Project is Reviewed Against:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                      |                                                                                                                                                                                                                                    |                         |
| <input checked="" type="checkbox"/> Kyoto Protocol <input checked="" type="checkbox"/> UNFCCC CDM Rules and Regulations and associated documents<br><input checked="" type="checkbox"/> Gold Standard Rules and Regulations <input type="checkbox"/> Other (Please Specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                                    |                         |
| <b>Methodology:</b> ACM0001 Version: 19 & ACM0002 Version: 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                                                                                                                                                                                                                                    |                         |
| <b>Project Participants:</b> Samsun Avdan Enerji Üretim ve Tic. A.Ş.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                      |                                                                                                                                                                                                                                    |                         |
| <b>Average Annual Emission Reduction Estimate in the 2<sup>nd</sup> Crediting Period:</b> 115,062 tCO <sub>2</sub> e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                      |                                                                                                                                                                                                                                    |                         |
| <b>Project Size:</b> <input checked="" type="checkbox"/> Large Scale <input type="checkbox"/> Small Scale <input type="checkbox"/> Micro Scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      |                                                                                                                                                                                                                                    |                         |
| <b>Registry Number:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Crediting Period Renewal No:</b>                                  | <b>Crediting Period Start Date:</b>                                                                                                                                                                                                |                         |
| GS 935                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> 1st <input type="checkbox"/> 2nd | 01/08/2019                                                                                                                                                                                                                         |                         |
| <b>Validation Stages:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                      |                                                                                                                                                                                                                                    |                         |
| <input checked="" type="checkbox"/> Desk Review <input checked="" type="checkbox"/> Site Visit <input checked="" type="checkbox"/> Follow-up Interviews<br><input type="checkbox"/> Global Stakeholder Consultation <input checked="" type="checkbox"/> Resolution of Outstanding Issues                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                      |                                                                                                                                                                                                                                    |                         |
| <b>Validation Findings:</b> During the validation 26 Corrective Action Requests, 01 Clarification Requests were raised, all of which were closed out before the issuance of this validation report. No Forward Action Requests were raised during the validation of the proposed project activity.<br><br>In summary, it is Re Carbon Ltd.'s opinion that the project activity "Samsun Landfill Gas to Energy Project, Turkey" in Turkey, as described in the PDD, version 09 dated 21/01/2020, meets all relevant UNFCCC requirements for the CDM, GS and all relevant host Party criteria and correctly applies the baseline and monitoring methodology ACM0001, version 19.0 and ACM0002, version 19. Hence, Re Carbon Ltd. requests the renewal of crediting period of this registered GS-VER project. |                                                                      |                                                                                                                                                                                                                                    |                         |
| <b>Validation Team Leader:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sandeep Kanda                                                        | <b>Indexing Terms:</b>                                                                                                                                                                                                             |                         |
| <b>Validation Team Members:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Anıl Söyler                                                          | <input checked="" type="checkbox"/> No distribution without permission of the client or responsible organizational unit<br><br><input type="checkbox"/> Limited Distribution<br><input type="checkbox"/> Unrestricted Distribution |                         |
| <b>Approved By (Technical Reviewer):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Name:</b>                                                         | <b>Signature:</b>                                                                                                                                                                                                                  |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sukanta Das                                                          |                                                                                                                                                 |                         |

## **Abbreviations**

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>BM</b>               | : Build Margin                                          |
| <b>CAR</b>              | : Corrective Action Request                             |
| <b>CDM</b>              | : Clean Development Mechanism                           |
| <b>CER</b>              | : Certified Emission Reduction(s)                       |
| <b>CL</b>               | : Clarification request                                 |
| <b>CM</b>               | : Combined Margin                                       |
| <b>CO<sub>2</sub></b>   | : Carbon dioxide                                        |
| <b>CO<sub>2</sub>e</b>  | : Carbon dioxide equivalent                             |
| <b>DNA</b>              | : Designated National Authority                         |
| <b>DOE</b>              | : Designated Operational Entity                         |
| <b>DR</b>               | : Document Review                                       |
| <b>EF</b>               | : Emission Factor                                       |
| <b>EIA</b>              | : Environmental Impact Assessment                       |
| <b>ER</b>               | : Emission Reductions                                   |
| <b>ERPA</b>             | : Emission Reduction Purchase Agreement                 |
| <b>FAR</b>              | : Forward Action Request                                |
| <b>FSR</b>              | : Feasibility Study Report                              |
| <b>GHG</b>              | : Greenhouse gas(es)                                    |
| <b>GWP</b>              | : Global Warming Potential                              |
| <b>I</b>                | : Interview                                             |
| <b>IPCC</b>             | : Intergovernmental Panel on Climate Change             |
| <b>IRR</b>              | : Internal Rate of Return                               |
| <b>kWh</b>              | : Kilo Watt Hour                                        |
| <b>LoA</b>              | : Letter of approval                                    |
| <b>MoV</b>              | : Means of Validation                                   |
| <b>MW</b>               | : Mega Watt                                             |
| <b>MWh</b>              | : Mega Watt Hour                                        |
| <b>NCV</b>              | : Net Calorific Value                                   |
| <b>NGO</b>              | : Non-governmental Organisation                         |
| <b>ODA</b>              | : Official Development Assistance                       |
| <b>OM</b>               | : Operating Margin                                      |
| <b>PDD</b>              | : Project Design Document                               |
| <b>PP</b>               | : Project Participant(s)                                |
| <b>tCO<sub>2</sub>e</b> | : Tonnes of CO <sub>2</sub> equivalents                 |
| <b>UNFCCC</b>           | : United Nations Framework Convention on Climate Change |
| <b>VAT</b>              | : Value-added tax                                       |

## **TABLE OF CONTENTS**

|                                                                                                                |           |
|----------------------------------------------------------------------------------------------------------------|-----------|
| <b>1. EXECUTIVE SUMMARY – VALIDATION OPINION .....</b>                                                         | <b>6</b>  |
| <b>2. INTRODUCTION.....</b>                                                                                    | <b>7</b>  |
| <b>2.1. Objective .....</b>                                                                                    | <b>7</b>  |
| <b>2.2. Scope .....</b>                                                                                        | <b>7</b>  |
| <b>2.3. GHG Project Description .....</b>                                                                      | <b>8</b>  |
| <b>2.4. Parties Involved .....</b>                                                                             | <b>8</b>  |
| <b>3. METHODOLOGY .....</b>                                                                                    | <b>9</b>  |
| <b>3.1. Validation Team and ITR Selection.....</b>                                                             | <b>10</b> |
| <b>3.2. Desk Review of the PDD and Additional Documents .....</b>                                              | <b>11</b> |
| <b>3.3. Site Visits .....</b>                                                                                  | <b>11</b> |
| <b>3.4. Reporting of Findings via the Validation Protocol.....</b>                                             | <b>12</b> |
| <b>3.5. Follow-Up Interviews .....</b>                                                                         | <b>13</b> |
| <b>3.6. Resolution of Outstanding Issues.....</b>                                                              | <b>13</b> |
| <b>3.7. Internal Quality Control.....</b>                                                                      | <b>14</b> |
| <b>4. VALIDATION FINDINGS.....</b>                                                                             | <b>15</b> |
| <b>4.1. Baseline Scenario .....</b>                                                                            | <b>15</b> |
| <b>4.2. Application of the Selected Baseline and Monitoring Methodology or<br/>Standardized Baseline .....</b> | <b>16</b> |
| <b>4.3. Monitoring.....</b>                                                                                    | <b>16</b> |
| <b>4.4. Calculation of Emission Factor and Emission Reductions .....</b>                                       | <b>17</b> |
| <b>4.5. Safeguarding Principles .....</b>                                                                      | <b>18</b> |
| <b>4.6. Local Stakeholder Comments .....</b>                                                                   | <b>19</b> |
| <b>4.7. Sampling Plan .....</b>                                                                                | <b>19</b> |

|                                                   |           |
|---------------------------------------------------|-----------|
| <b>5. LIST OF PERSONS INTERVIEWED .....</b>       | <b>20</b> |
| <b>6. LIST OF DOCUMENTS REVIEWED .....</b>        | <b>22</b> |
| <b>7. VALIDATION TEAM AND ITR COMPETENCE.....</b> | <b>25</b> |
| <b>7.1. Appointment Certificates .....</b>        | <b>26</b> |
| <b>8. VALIDATION OPINION .....</b>                | <b>29</b> |
| <b>ANNEX 1: VALIDATION PROTOCOL .....</b>         | <b>30</b> |

## **1. EXECUTIVE SUMMARY – VALIDATION OPINION**

Re Carbon Ltd. has performed the 2<sup>nd</sup> crediting period validation of the “Samsun Landfill Gas to Energy Project, Turkey” in “Turkey” between 15/04/2019 and 30/07/2019. The validation was performed on the basis of UNFCCC criteria for the Clean Development Mechanism (CDM), GS and Host Party criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

As a result of validation, Re Carbon Ltd. concludes the following:

- ☒ The review of the project design documentation and the subsequent follow-up interviews have provided Re Carbon Ltd. with sufficient evidence to determine the fulfillment of all stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM and GS. Therefore, Re Carbon Ltd. will recommend the renewal of crediting period of the project by the Gold Standard.
- ☐ The review of the project design documentation and the subsequent follow-up interviews have not provided Re Carbon Ltd. with sufficient evidence to determine the fulfillment of all stated criteria. Therefore, Re Carbon Ltd. will not recommend the renewal of crediting period of the project and will inform the project participants and the Gold Standard on this decision.

## **2. INTRODUCTION**

### **2.1. Objective**

Re Carbon Ltd. has been appointed by “Samsun Avdan Enerji Üretim ve Tic. A.Ş.” to perform the crediting period renewal validation of the “Samsun Landfill Gas to Energy Project, Turkey” in Turkey with the contract dated 11/04/2019. The objective of this validation activity is to have an independent third party for the assessment of the project, and to ensure that the selected baseline, estimated emission reductions and monitoring plan is still in line with the applied methodologies and the applicable CDM and Gold Standard requirements. In particular;

- the project's baseline is assessed against “ACM0001: Flaring or use of landfill gas - Version 19 and ACM0002: Grid-connected electricity generation from renewable sources - Version 19.0”
- the project’s monitoring plan is assessed against “ACM0001: Flaring or use of landfill gas - Version 19 and ACM0002: Grid-connected electricity generation from renewable sources - Version 19.0”
- Tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period version 03.0.1
- the projects compliance with, the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria
- CDM Validation and Verification Standard for project activities, version 2.0
- CDM Project Standard for project activities, version 2.0
- CDM Project Cycle Procedure for project activities, version 2.0
- Gold Standard for Global Goals

Validation is a requirement for all CDM projects that are requesting a renewal of crediting period and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of certified emission reductions (CERs).

### **2.2. Scope**

The scope of the validation is the independent and objective review of the Project Design Document (PDD) which is revised for the second crediting period. The PDD is reviewed against the relevant criteria (see Section 2.1) and decisions by the CDM Executive Board, including the approved baseline and monitoring methodology. The validation was based on the guidance given in the CDM Validation and Verification Standard for project activities, version 2.0, CDM Project Standard for project activities, version 2.0 and CDM Project Cycle Procedure for project activities, version 2.0.

The validation team has employed a risk-based approach to assess the completeness and accuracy of the claims and conservativeness of the assumptions in the PDD. The main focus of the validation team is to determine if the identified baseline is still applicable to the project activity, if the estimated emission reductions for the second crediting period are still conservative and if the monitoring plan is still feasible for the project activity.

The only purpose of the validation is its usage during the renewal of crediting period process as part of the CDM project cycle. Therefore, Re Carbon Ltd. can't be held liable by any party for decisions made or not made based on the validation opinion, which will go beyond that purpose.

### **2.3. GHG Project Description**

The project is a Landfill Gas ("LFG") to Energy Project, developed by "Samsun Avdan Enerji Üretim ve Tic. A.Ş.", located south-west of Samsun city centre. The project activity involves the collection and utilization of the LFG with an electricity component with an installed capacity 8.4 MWe. Expected disposed waste amount is 304,466 tonnes, corresponding to an average of 800 tons per day. This amount is expected to rise in coming years, reaching 848,232 tonnes in 2040 when the landfill site will be filled up and closed.

The Project is running with 7 Deutz make gas engines with a total capacity of 8.4 MW, as observed during on-site visit and also confirmed through the license. The project construction has been in operation since 09/02/2011. Estimated electricity generation is 54,600 MWh per year and delivered to the Turkish national grid and this has been checked through the calculations provided.

The project was registered on 01/06/2011 and the first renewable crediting period started on 09/02/2011. The PDD submitted for renewal indicates the second renewable crediting period start date as 09/02/2019. Although, since the PP did not submit CP renewal request within one year after CP1 end date, the PP cannot claim the ERs during delay period, i.e. 9 Feb 2018 – 4 Sep 2019 of CP2.

### **2.4. Parties Involved**

The host country is Turkey. The Project Participant is Samsun Avdan Enerji Üretim ve Tic. A.Ş. and is also responsible for the operation and monitoring of the parameters in line with the registered monitoring plan of the project activity.



### 3. METHODOLOGY

The renewal of crediting period validation of proposed CDM project activity includes the following phases:

- Assessment whether the baseline of the project activity is revised in the PDD to reflect the most recent situation for the project activity, via a desk review of the revised PDD between 15/04/2019 and 30/07/2019.
- Assessment whether the applied methodology “ACM0001: Flaring or use of landfill gas - Version 19 and ACM0002: Grid-connected electricity generation from renewable sources - Version 19.0”, in the revised PDD has been applied correctly, including the baseline selection and monitoring plan.
- Assessment of data and calculation of greenhouse gas emission reductions.
- Issuance of the renewal of crediting period validation report
- Independent technical review (ITR)
- Approval of the validation report and request of renewal of crediting period

The Validation Protocol is used for the assessment of each requirement during the execution of validation activities and is given in Annex-1 of this validation report.

The Validation Protocol consists of two tables:

- Table 1 (Project Design Document (PDD) and CDM validation requirements) and
- Table 2 (Resolution of Corrective Action, Forward Action and Clarification Requests)

The usage description of Table-1 in Validation Protocol is explained in Table 3-1 below:

**Table 3-1:** Explanation about Table-1 in Validation Protocol

| Question                                             | Reference                                                                               | MoV*                                                                                                                                                       | Findings, comments, references and document sources                                                                                                                                            | Draft & Final Conclusion                                                                                                                                                                                                                                               |
|------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The requirements related with the PDD and validation | Gives reference to the legislation or documents where the relevant requirement is found | Explains how conformance with question is investigated.<br>Examples of means of validation are Document Review (DR), Interview (I) and Not Applicable (NA) | Is used to elaborate and discuss the question and/or conformance to the question by giving related references and document sources based on which the finding is issued or evidence is checked | Either acceptable based on the evidence provided (OK), non-compliance with the requirement (CAR), further clarification (CL) due to insufficient, unclear or not transparent information, forward action request (FAR) that needs to be solved during the verification |

The usage description of Table-2 in Validation Protocol is explained in Table 3-2 below:

**Table 3-2:** Explanation about Table-2 in Validation Protocol

| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team | Ref. to Questions in Table-1                                                 | Summary of Project Participants' Response                                                 | Validation Team Conclusion                                                  |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| The all CL, FAR and CARs determined during the draft validation report should be listed here  | Gives reference to the checklist questions in Table-1 of Validation Protocol | Is used to summarize the responses by project participants regarding the non-conformities | Is used to summarize the responses by validation team and their conclusions |

The Validation Protocol is fulfilled by the validation team in line with the descriptions above and all the CARs, CLs and FARs are listed in a transparent and clear manner.

### 3.1. Validation Team and ITR Selection

The appointment process of the validation team takes into account the technical area(s), sectoral scope(s), and relevant host country experience required amongst team members for the accurate and thorough assessment of the project design. The relevant CDM and Gold Standard validation and previous ITR experiences are also assessed during the selection of the team members and Independent Technical Reviewer (ITR), respectively. The validation team and ITR are assigned to this validation activity on 05/04/2019 taking all the above factors into consideration and as a result of the contract review process.

The validation team members and ITR are given in Table 3-3 below:

**Table 3-3:** Validation team and ITR details

| Name          | Role                                | Host Country Experience             | Scope Coverage                      | Technical Expertise                 | Financial Expertise      | Involvement * |
|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|---------------|
| Sandeep Kanda | Team Leader                         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | DR, R         |
| Anil Söyler   | Certification Manager and Validator | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | A, SV, DR, R  |
| Sukanta Das   | ITR                                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ITR           |

\* Explanations for the abbreviations used for involvement types are as follows:

A : Administrative

DR : Desk Review

SV : Site Visit

R : Reporting

ITR : Independent Technical Review

### 3.2. Desk Review of the PDD and Additional Documents

The basis for the crediting period renewal validation activity is the PDD version 01, dated 01/03/2019 which was submitted to the validation team on 15/04/2019. This PDD was revised several times due to the raised CARs and CLs, version 09 dated 21/01/2020 being the final version. The PDD was assessed against;

- The methodology “ACM0001: Flaring or use of landfill gas - Version 19 and ACM0002: Grid-connected electricity generation from renewable sources - Version 19.0” and the associated tools,
- the Host Country criteria
- CDM Validation and Verification Standard for project activities, version 2.0
- CDM Project Standard for project activities, version 2.0
- CDM Project Cycle Procedure for project activities, version 2.0
- and other relevant documents, rules and regulations listed in section 2.1 of this report
- Gold Standard procedures for the renewal of a crediting period.

A list of all the documents that were reviewed can be found in Section 6 of this validation report.

### 3.3. Site Visits

As a part of the validation activities a site visit was performed to the project activity site, details of which can be seen in the Table 3-5 below:

**Table 3-4: Site visit details**

|                    |                                         |                                                              |
|--------------------|-----------------------------------------|--------------------------------------------------------------|
| <b>Date</b>        | 16/04/2019                              |                                                              |
| <b>Location</b>    | Samsun                                  |                                                              |
| <b>Participant</b> | <b>Company Name</b>                     | <b>Role in the Organization /<br/>Role in the Site Visit</b> |
| Erol İREN          | Samsun Avdan Enerji Üretim ve Tic. A.Ş. | General Manager                                              |
| Sinan BEKTAŞ       | Samsun Avdan Enerji Üretim ve Tic. A.Ş. | Deputy General Manager                                       |
| Adem SÖYLER        | Samsun Avdan Enerji Üretim ve Tic. A.Ş. | Operator                                                     |
| Selim YILMAZ       | Samsun Avdan Enerji Üretim ve Tic. A.Ş. | Plant Manager                                                |
| Ayşe BAHÇIVAN      | Samsun Avdan Enerji Üretim ve Tic. A.Ş. | Cook (Local)                                                 |
| Hülya KOPLAN       | Samsun Avdan Enerji Üretim ve Tic. A.Ş. | Worker (Local)                                               |

| Selma BOĞA                                                                                                        | Samsun Avdan Enerji Üretim ve Tic. A.Ş. | Worker                       |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------|
| Çağla Balcı ERIŞ                                                                                                  | Rüzgar Danışmanlık Ltd.                 | Consultant                   |
| Anıl SÖYLER                                                                                                       | Re Carbon Ltd.                          | Validator                    |
| Fatma ZENGİN                                                                                                      | Aşağı Avdan Village                     | Villager                     |
| Remzi KESMEN                                                                                                      | Aşağı Avdan Village                     | Villager                     |
| Kamiran GENÇ                                                                                                      | Aşağı Avdan Village                     | Mukhtar (Village Head)       |
| Points Verified                                                                                                   |                                         | Source of Information        |
| To confirm rightness of project description, as per GS PDD and Passport including project components and location |                                         | Document Review / Site Visit |
| To check the project development and operation                                                                    |                                         | Document Review / Site Visit |
| To interview with the local stakeholders about the project and its impacts                                        |                                         | Site Visit                   |

### 3.4. Reporting of Findings via the Validation Protocol

During the validation period, a Validation Protocol which is attached in Annex 1 to this crediting period renewal validation report was used to submit the findings to the project participants.

In line with the CDM Validation and Verification Standard, the team reports the non-conformities in the forms of Corrective Action Requests (CARs), Clarification Requests (CLs) and Forward Action Requests (FARs). When and for which type of non-conformities CARs, CLs and FARs are raised are explained below:

- The Validation team raises a **CAR** if one of the following occurs:
  - The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions
  - The CDM requirements have not been met
  - There is a risk that emission reductions cannot be monitored or calculated.
- The Validation team raises a **CL** if information is insufficient or not clear or not transparent enough to determine whether the applicable CDM requirements have been met.
- The Validation team raises a **FAR** during validation to highlight issues related to project implementation that require review during the verification of the project activity.

According to these principles total of 26 CARs and 01 CLs were raised all of which are listed in the Validation Protocol. No Forward Action Requests were raised during the validation.

### **3.5. Follow-Up Interviews**

During the validation period follow-up interviews were realized by the validation team to further analyze the correctness and accurateness of the information provided. A list of persons interviewed is given in Section 5 of this Validation Report.

### **3.6. Resolution of Outstanding Issues**

All the issues raised as CLs and CARs during this validation activity, were resolved, during the written and oral communications between the Project Participant(s) and Re Carbon Ltd. validation team members. For the resolution of these non-conformities, the project participants modified the project design, rectified the PDD or provided adequate additional explanations or evidences that satisfy the concerns of the validation team members.

Concerns raised in the desk review, the on-site audit assessments and the follow up interviews and the responses provided for the raised concerns are documented in Annex 1 (Validation Protocol) to guarantee the transparency of the validation process.

The validation timeframe is given in detail in Table 3-5 below:

**Table 3-5: Validation Timeframe**

| Action                                                                              | Timeline   |            |
|-------------------------------------------------------------------------------------|------------|------------|
|                                                                                     | From       | To         |
| Desk Review of the PDD version 01                                                   | 15/04/2019 | 25/04/2019 |
| Site Visit                                                                          | 16/04/2019 | 16/04/2019 |
| Issuance of the Validation Protocol version 01                                      | -          | 25/04/2019 |
| Review of PPs Set of Responses and subsequent loops                                 | 14/05/2019 | 30/07/2019 |
| Closing of all the CARs and CLs                                                     | -          | 30/07/2019 |
| Issuance of the Validation Report version 01                                        | -          | 30/07/2019 |
| ITR Process                                                                         | 05/08/2019 | 16/08/2019 |
| Issuance of the Validation Report version 02                                        | -          | 16/08/2019 |
| Issuance of the Validation Report version 03 based on GS initial review comments    | -          | 02/12/2019 |
| Issuance of the Validation Report version 3.1 based on GS follow-up review comments | -          | 22/01/2020 |

Information or clarifications provided as a response to a CAR, CL or FAR could also lead to a new request. This can also be seen transparently in the Validation Protocol provided in Annex 1 of this Validation Report.

### **3.7. Internal Quality Control**

As a final step of validation, the final documentation including the validation report and annexes have to undergo an internal quality control by Re Carbon Ltd. This quality control is also referred to as Independent Technical Review process.

The Independent Technical Review is performed by another Team Leader who hasn't involved in the validation activities of this project activity. When the Team Leader finalizes the Validation Report, the report is sent to Independent Technical Reviewer, at this stage not only the report but all the supporting documents like emission factor calculations, additionality justifications, relevant excel sheets etc. are reviewed.

Further CLs and CARs can be raised by the Independent Technical Reviewer during this review, to cover all the points that may need further clarification.

After all the CLs and CARs are closed, the validation report is reviewed and approved by the Team Leader, ITR and the Certification Manager/General Manager, and the request of registration is submitted to the Gold Standard Organization along with the relevant documents.

## **4. VALIDATION FINDINGS**

### **4.1. Baseline Scenario**

The project activity was earlier registered using the methodology ACM0001, Version 11 and ACM0002, Version 12.1. The PDD (Version 04, dated 13/04/2012) has been updated in the latest PDD Form for GS4GG, Version 1.1 – August 2017, using the latest approved version of the methodology ACM0001, Version 19 and ACM0002, Version 19. All the applicability conditions of the methodology have been justified appropriately in the revised PDD (Version 09, dated 21/01/2020).

The PP has also included “Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period version 03.0.1” under the applicable tools list. The DOE has checked the application of the aforesaid tool and confirms that it has been correctly applied.

There has been no significant change in the relevant policies and circumstances, which would impact the baseline scenario since 01/06/2011 (date of earlier registered PDD) till date. The earlier registered PDD takes into account all the relevant national and sectoral policies and circumstances that were applicable as on 09/07/2019. The discussion on the same has also been provided in the updated PDD. The PDD also includes details of the recent data about existing landfill sites, which is available in National Inventory Report at UNFCCC web site under Step 1.2. There are 113 solid waste disposal sites (SWDS) in Turkey of which only 20 have landfill gas recovery, 9 among them are registered GS VER project activities. Majority of the SWDS still do not have LFG recovery, resulting in methane emissions.

The project activity is supplying power to the Turkish national grid. Thus, the baseline scenario continues to remain same as earlier, as follows: “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””.

Further, the emission coefficient has been updated and fixed ex-ante for the 2nd renewable crediting period. The procedures as defined in the “Tool to calculate the emission factor for an electricity system”, version 07.0 have been followed. The emission coefficient in the earlier PDD was 0.559 tCO<sub>2</sub>/MWh with 0.5 and 0.5 weightage factor given to ‘operating margin’ and ‘build margin’ respectively. The emission coefficient in the updated PDD is 0.3953 tCO<sub>2</sub>/MWh with 0.25 and 0.75 weightage factor given to ‘operating margin’ and ‘build margin’ respectively. The data for calculation of emission coefficient has been taken from the Turkish Electricity Transmission Company (TEIAS). TEIAS is the national electricity transmission company, which makes available the official data of all power plants in Turkey. The decrease in the emission coefficient is an indicative that more renewable based power is getting added to the grid.

No updates in policy and regulatory framework have been found in Turkey, which mandate recovery of LFG. Hence, the baseline scenario has not changed during the second crediting period and continues to be the same as during the first crediting period.

## **4.2. Application of the Selected Baseline and Monitoring Methodology or Standardized Baseline**

The project activity was earlier registered using the methodologies ACM0001, Version 11 and ACM0002, Version 12.1. The PDD has been updated using the latest approved version of the methodologies ACM0001, Version 19 and ACM0002, Version 19. The PPs have used the most recent version of the same methodology as the original registered PDD, i.e. the version that is valid at the time of submission of the revised PDD for the renewal of the crediting period. All the applicability conditions of the methodology have been justified appropriately in the revised PDD (Version 09, dated 21/01/2020). The project has installed a new LFG capture system in the Samsun landfill site where no LFG extraction or utilization was happening. The project utilizes the landfill gas originating from the Samsun landfill and generates electricity from it through gas engines. During the on-site visit, the project was found operational with a total of 7 Deutz make gas engines of capacity 1.2 MW each and thereby total installed capacity of 8.4 MW. The activity generates electricity and delivers it to the Turkish national grid. The project also has a high temperature enclosed flare system manufactured by Jenbacher.

This has been checked based on the previous verification report and on-site visit.

## **4.3. Monitoring**

The project refers to SDG 7: Affordable and Clean Energy; SDG 8: Decent Work and Economic Growth; and SDG 13: Climate Action. The monitoring of SDG 8 linked to the employment generation related to the project activity will be carried out. The monitoring for SDG 7 and SDG 13 is based on the net electricity supplied to the grid by the project, this is done following the methodology ACM0002, Version 19. The monitoring plan has been revised in the updated PDD as per the applied methodology ACM0001, Version 19 and ACM0002, Version 19. The emission coefficient of the grid has been fixed ex-ante and will not be updated during the 2nd renewable crediting period.

In line with the methodology, the updated PDD includes all the parameters, as follows: management of SWDS, operation of the equipment that consumes the LFG, volumetric flow of the gaseous stream (to the electricity generating units), volumetric fraction of CH<sub>4</sub> on a dry basis, temperature of the gaseous stream, amount of net electricity generated using LFG by the project activity. The amount of LFG captured and gainfully destroyed will be monitored based on monitoring the methane flow and concentration apart from adjusting it for the biogas flow into the system. Besides that, the temperature of the gas to ensure conditions below 60<sup>0</sup>C and air quality (Reduction of odour through the interview with the stakeholders), waste terracing (through visual inspection), hazardous waste processing (hazardous waste shall not be processed at the landfill site) and leachate management (through the interview with the stakeholders or Municipality Letter) will also be monitored during the crediting period.

The amount of electricity fed into the grid by the project will be monitored continuously by redundant metering devices, two of them being the main ones at the substation, which provides the data for the monthly invoicing to TEİAŞ.

The project emissions will also be based on the monitored value of fossil fuel combustion.



#### **4.4. Calculation of Emission Factor and Emission Reductions**

The emission reduction from the project activity throughout the 2nd renewable crediting period of 7 years would continue to happen if the project operates without getting replaced during the whole crediting period. The operational lifetime of the project stated in the earlier registered PDD was 28 years and the start date as 01/06/2011. The on-site inspection and review of the records (for e.g., gas engines maintenance records) suggest that the key project equipment are maintained properly. Therefore, the project is expected to operate throughout the 2nd crediting period of 7 years and result in emission reductions.

The emission reduction calculation estimations have been revised in the updated PDD as per the latest approved version of the methodology ACM0001, Version 19 and ACM0002, Version 19. The baseline emissions are calculated based on the methane emissions from the landfill that is flared and/or used in the project activity and the electricity generation. The methane emissions are computed based on the annual waste being dumped and projections and same parameters for the first order decay model as used in the first crediting period, except for the change in the waste composition. The waste composition has been taken from the 'Waste characterization study of Samsun landfill gas project' carried out in 2012. The project emissions are on account of electricity consumption by the project activity. There are no leakage emissions associated with the project.

For calculation of the emission factor of Turkish Grid, "Tool to Calculate the Emission Factor for an Electricity System, version 7", has been used.

Option A: A combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) is calculated according to the procedures prescribed in the 'Tool to calculate the emission factor for an electricity system' (version 7). The steps of the tool are implemented as below:

**Step 1:** Turkish national grid is identified as the relevant electric power system

**Step 2:** Only grid power plants are included in the calculation (there are no off-grid power plants in Turkey).

**Step 3:** E<sub>grid</sub>, OM,  $\gamma$  is calculated as the generation-weighted average CO<sub>2</sub> emissions per unit net electricity generation (tCO<sub>2</sub>/MWh) of all the generating plants serving the system, excluding low-cost/must-run power plants. As electricity generation from solar and low-cost biomass facilities is insignificant and there are no nuclear plants in Turkey, the only low cost /must run plants considered are hydroelectric, wind and geothermal facilities.

Under this option, the ex-ante approach is selected. Data for calculating the three year average is obtained from the period 2015 – 2017 which are the most recent data available at the time of submission of the PDD to DOE. Low cost/must run resources and the equations used are provided in the PDD.

**Step 4:** E<sub>grid</sub>, OM,  $\gamma$  has been calculated using option B which is based on the total net electricity generation of all power plants serving the system and the fuel types and total fuel consumption of the project electricity system.

For the calculation of the Simple OM, the amount of fuel consumption ( $F_{ci}$ , y) and heating values of fuels are taken from website of TEIAS, the official source of related data. The NCV of the fuels consumed have been calculated using data from the TEIAS web page. The emission factors required for calculation of CO<sub>2</sub> emission coefficient have been obtained through IPCC 2006 guidelines for GHG inventories for fuels. Net electricity generated and supplied to the Grid by thermal plants has been calculated using data obtained from the TEIAS web page. The OM is calculated as 0.6604 tCO<sub>2</sub>/MWh.

**Step 5:** Option1 is chosen to calculate the build margin emission factor. The build margin emission factor is based on the most recent information available on units already built at the time of submission of the request for renewal of the crediting period to the DOE. SET $\geq$ 20% is selected as (SETsample) because the set of power units comprises the larger annual electricity generation. The build margin emission factor is calculated as the generation-weighted average emission factor of a sample of power plants “m” for a specific year. For BM calculation corresponding to year 2017, the sample group total generation is based on plant specific capacity data operating with full capacity all around the year for plants commissioned in 2014 – 2017, as plant specific generation data is not made available by the government authorities. The data available for the annual energy production for specific power station belongs to year 2012. The plant capacity has been sourced from data provided by the General Directorate of Energy Affairs, Turkey. The usage of capacity for determination of BM is based on a CDM Executive Board approved deviation from the methodology AM005 for a similar situation. According to the CDM-EB-approved deviation, in the absence of annual production data use of weights estimated using installed capacity in place of annual electricity generation is permitted. Further, the default efficiencies for the plant type stated in the tool are used conservatively by the PP. The BM is calculated as 0.3070 tCO<sub>2</sub>/MWh.

**Step 6:** The combined margin emissions factor has been calculated using the default values of 0.25 and 0.75 for OM and BM respectively. The CM is calculated as 0.3953 tCO<sub>2</sub>/MWh.

Therefore, the project is expected to result in an average emission reduction of 115,062 tCO<sub>2</sub>e/year during the 2nd renewable crediting period.

## **4.5. Safeguarding Principles**

The project participants have carried out an analysis of the social, economic and environmental impacts following the GS4GG Safeguarding Principles and Requirements. All the safeguarding principles are stated, and all the relevant assessment questions included pertaining to the safeguarding principles. No mitigation measures are required for any of the Safeguarding Principles.

Since the project is a landfill gas utilization project, it is validated based on interviews, site visit and expertise of the audit team that based on the non-relevance of the assessment questions, no mitigation measures have been adopted, which are deemed appropriate. Employment opportunities are envisaged with the coming of the project activity, and the employees will be trained about health and safety issues during operational phase of the project. The same has been validated during the site visit by the team, including discussions with the relevant local

stakeholders. These findings are also in line with the findings of the local stakeholder consultations and have been correctly presented in the PDD.

Besides that, the signed letter dated as 05/03/2014 by Samsun Metropolitan Municipality about the leachate water has been provided to VVB and it has been stated in the letter that there hadn't been observed significant change on the leachate water parameters according to the conducted analysis by them.

The payrolls of the PP site employees have been provided to VVB. Based on the provided records, it can be concluded that payment to PP site employees is claimed to be better than local average or above/at minimum wage. The safety precautions were also available at the project site during the site visit. Besides that, there hadn't been any complaint by the interviewed employees during the site visit on both issues, either.

Therefore, through document review and interview during site-visit, Re Carbon Ltd. confirms that the safeguarding principles assessment has been appropriately conducted for the project activity.

#### **4.6. Local Stakeholder Comments**

There had been crediting period renewal validation site visit by the VVB team on 16/04/2019 and there hadn't been any complaint by the interviewed local stakeholders during the site visit. Thus, another meeting to be reported has not been conducted by the PP. The grievance feedback logbook has been submitted to Aşağı Avdan Village Mukhtar (Village Head) on 13/03/2019 in line with the provided document by PP and similarly in line with the provided records by PP, there hasn't been any comment/complaint received by PP.

#### **4.7. Sampling Plan**

Not applicable.

## 5. LIST OF PERSONS INTERVIEWED

The list of people who were interviewed during the validation period is given in the Table 5-1 below:

**Table 5-1:** List of persons interviewed

| Reference Number | Means of Interview <sup>1</sup> | Full Name        | Title                  | Organization                            |
|------------------|---------------------------------|------------------|------------------------|-----------------------------------------|
| I01              | SV                              | Erol İREN        | General Manager        | Samsun Avdan Enerji Üretim ve Tic. A.Ş. |
| I02              | SV                              | Sinan BEKTAŞ     | Deputy General Manager | Samsun Avdan Enerji Üretim ve Tic. A.Ş. |
| I03              | SV                              | Adem SÖYLER      | Operator               | Samsun Avdan Enerji Üretim ve Tic. A.Ş. |
| I04              | SV                              | Selim YILMAZ     | Plant Manager          | Samsun Avdan Enerji Üretim ve Tic. A.Ş. |
| I05              | SV                              | Ayşe BAHÇIVAN    | Cook (Local)           | Samsun Avdan Enerji Üretim ve Tic. A.Ş. |
| I06              | SV                              | Hülya KOPLAN     | Worker (Local)         | Samsun Avdan Enerji Üretim ve Tic. A.Ş. |
| I07              | SV                              | Selma BOĞA       | Worker                 | Samsun Avdan Enerji Üretim ve Tic. A.Ş. |
| I08              | SV                              | Çağla Balcı ERIŞ | Consultant             | Rüzgar Danışmanlık Ltd.                 |
| I09              | SV                              | Fatma ZENGİN     | Villager               | Aşağı Avdan Village                     |
| I10              | SV                              | Remzi KESMEN     | Villager               | Aşağı Avdan Village                     |
| I11              | SV                              | Kamiran GENÇ     | Mukhtar (Village Head) | Aşağı Avdan Village                     |

The local stakeholders stated in the Table 5-1 above were interviewed about the following issues and there hadn't been any complaint by the interviewed local stakeholders during the site visit:

- Noise due to the project activity
- Design change of the project activity
- Sufficiency of local employment
- Waste management practices implemented by PP

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<sup>1</sup> SV: Site visit; T: Telephone; E: E-mail

It was also concluded that the grievance mechanism is in place and this was also confirmed by the interviewed local villagers during the site visit. The document showing the contact details of the relevant person within PP with the signature of Aşağı Avdan Mukhtar (Village Head) dated as 13/02/2019 was also provided to VVB.

## 6. LIST OF DOCUMENTS REVIEWED

The list of the documents which were reviewed during the validation period is given in the Table 6-1 below:

**Table 6-1:** List of documents reviewed

| Document Number | Document Name                                                                               | Version | Date (dd/mm/yyyy) |
|-----------------|---------------------------------------------------------------------------------------------|---------|-------------------|
| D01             | Registered PDD of 'Samsun Landfill Gas to Energy Project, Turkey'                           | 04      | 13/04/2012        |
| D02             | Registered GS Passport of 'Samsun Landfill Gas to Energy Project, Turkey'                   | 03      | 13/04/2012        |
| D03             | Validation Report by TUV Rheinland of 'Samsun Landfill Gas to Energy Project, Turkey'       | 06      | 23/07/2012        |
| D04             | Verification Report by TUV SUD for 2nd Verification                                         | 03      | 04/03/2015        |
| D05             | Final Issuance Review of Previous Verification                                              | -       | 05/05/2015        |
| D06             | ACM0001: Flaring or use of landfill gas                                                     | 19      | 14/06/2019        |
| D07             | ACM0002: Grid-connected electricity generation from renewable sources                       | 19      | 31/08/2018        |
| D08             | CDM Validation and Verification Standard for Project Activities                             | 2.0     | 29/11/2018        |
| D09             | CDM Project Standard for Project Activities                                                 | 2.0     | 29/11/2018        |
| D09             | CDM Project Cycle Procedure for Project Activities                                          | 2.0     | 29/11/2018        |
| D10             | Gold Standard for Global Goals                                                              | 1.0     | -                 |
| D11             | Final Version of GS4GG Design Change Review GS935                                           | -       | 29/07/2019        |
| D12             | Revised PDD for Renewal of Crediting Period "Samsun Landfill Gas to Energy Project, Turkey" | 01      | 01/03/2019        |
| D13             | Revised PDD for Renewal of Crediting Period "Samsun Landfill Gas to Energy Project, Turkey" | 02      | 13/05/2019        |
| D14             | Revised PDD for Renewal of Crediting Period "Samsun Landfill Gas to Energy Project, Turkey" | 03      | 31/05/2019        |
| D15             | Revised PDD for Renewal of Crediting Period "Samsun Landfill Gas to Energy Project, Turkey" | 04      | 24/06/2019        |

| Document Number | Document Name                                                                                                                         | Version | Date (dd/mm/yyyy)                                    |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------|
| D16             | Revised PDD for Renewal of Crediting Period "Samsun Landfill Gas to Energy Project, Turkey"                                           | 05      | 24/06/2019                                           |
| D17             | Revised PDD for Renewal of Crediting Period "Samsun Landfill Gas to Energy Project, Turkey"                                           | 06      | 28/06/2019                                           |
| D18             | Revised PDD for Renewal of Crediting Period "Samsun Landfill Gas to Energy Project, Turkey"                                           | 07      | 09/07/2019                                           |
| D19             | ER Calculation Excel Sheet                                                                                                            | 01      | 01/03/2019                                           |
| D20             | ER Calculation Excel Sheet                                                                                                            | 02      | 13/05/2019                                           |
| D21             | ER Calculation Excel Sheet                                                                                                            | 03      | 31/05/2019                                           |
| D22             | ER Calculation Excel Sheet                                                                                                            | 04      | 24/06/2019                                           |
| D23             | ER Calculation Excel Sheet                                                                                                            | 05      | 28/06/2019                                           |
| D24             | ER Calculation Excel Sheet                                                                                                            | 06      | 09/07/2019                                           |
| D25             | Electricity Generation License                                                                                                        | -       | 18/05/2011                                           |
| D26             | Provisional Acceptance Protocols                                                                                                      | -       | 09/03/2012<br>27/09/2013<br>27/09/2014<br>22/05/2018 |
| D27             | Letter by the Village Head (Mukhtar) of Aşağı Avdan Village (About the Contact Details of PP Relevant Staff In case of Any Complaint) | -       | 13/02/2019                                           |
| D28             | Submission Protocol Between PP and Village Head (Mukhtar) of Aşağı Avdan Village for Complaint Notebook                               | -       | 13/03/2019                                           |
| D29             | EIA Exemption Letter                                                                                                                  | -       | 28/08/2015                                           |
| D30             | Environmental and Technical Report of the Project                                                                                     | -       | 12/2017                                              |
| D31             | Email Communications with GS on Capacity Addition and Renewal Crediting Period of 'Samsun Landfill Gas to Energy Project, Turkey'     | -       | 12/2018<br>01/2019<br>03/2019                        |
| D32             | Waste Characterization Study of the Project                                                                                           | -       | 2012                                                 |
| D33             | TEIAS Statistics for OM Calculation                                                                                                   | -       | 2015-2017                                            |
| D34             | Data from Turkish Energy and Natural Resources Ministry for BM calculation                                                            | -       | 2014-2017                                            |
| D35             | Municipal Letter on Leachate                                                                                                          | -       | 05/03/2014                                           |
| D36             | Site Visit Photos                                                                                                                     |         | 16/04/2019                                           |

| Document Number | Document Name                                                                               | Version | Date (dd/mm/yyyy) |
|-----------------|---------------------------------------------------------------------------------------------|---------|-------------------|
| D37             | Revised PDD for Renewal of Crediting Period "Samsun Landfill Gas to Energy Project, Turkey" | 08      | 15/10/2019        |
| D38             | ER Calculation Excel Sheet                                                                  | 07      | 15/10/2019        |
| D39             | Revised PDD for Renewal of Crediting Period "Samsun Landfill Gas to Energy Project, Turkey" | 09      | 21/01/2020        |



## **7. VALIDATION TEAM AND ITR COMPETENCE**

Sandeep KANDA holds a degree in Mechanical Engineering, Masters in Energy systems engineering from Indian Institute of Technology – Bombay and Post Graduate Diploma in Industrial Safety & Environmental Management from National Institute of Industrial Engineering in India. He has more than ten years of work experience with auditing and consultancy firms, seven years thereof with Designated Operational Entities under the CDM. He is experienced working on diversified areas of energy and environmental management, including policies, Clean Development Mechanism (CDM), Corporate Sustainability Reporting (CSR) Audits, energy audits, utility audits and product development. As CDM auditor and technical reviewer for TÜV Süd, he has audited more than 30 CDM projects as technical reviewer; 40 projects as lead auditor and 7 PoAs in various capacities; covering a broad range of sectoral scopes, such as Energy industries (renewable - / non-renewable sources), Energy distribution, Energy demand, Manufacturing industries, Chemical industries, Transport, Metal production, Waste handling & disposal and Agriculture. He has been working as a contracted team leader, technical reviewer, TA 1.1 and renewable energy expert in the context of Re Carbon.

Anıl SÖYLER, Bsc. in Environmental Engineering, has completed his Bachelor degree in Middle East Technical University, Turkey. His Master study in the same field is at thesis stage and has 9 years of professional experience in environmental management, monitoring and auditing, waste and waste water management, environmental and social impact assessment, control of greenhouse gas emissions, environmental reports, and quality management systems. He has been involved in both national and international projects supported by IFC and World Bank. He has been working as Certification Manager in the context of Re Carbon.

Sukanta DAS, has done M. SC in Physics and M. Tech in Energy technology from Tezpur Central University in India. He is a certified lead auditor for ISO 14001 EMS LA. He has more than five years of work experience at TUV NoRD under various categories of projects stating from Renewable to waste to supercritical projects. He was JI/CDM Lead Assessor in TUV NoRD and was involved in more than 80 CDM validation and verifications activities and Gold Standard, VER projects as a team leader/technical reviewer / validator / verifier covering the sectoral scope 1 technical area 1.2. He has been working as a contracted team leader, technical reviewer and renewable energy expert in the context of Re Carbon.

## 7.1. Appointment Certificates

|                                                                                                                                                                                                  |                                                          |                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Re Carbon Gıda ve Denetim ve<br>Belgeendirme Ltd. Şti.<br><br>Bugli's Plaza<br>Muhsin Yazıcıoğlu Cad. 43/11<br>TR / 06520 Balgat-Ankara<br><br>Tel.: 0090 312 287 5122<br>Fax: 0090 312 287 3573 | <b>Certificate of Appointment</b><br><br>Carbon Division | <br><br>Page: 1/1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

This Certificate of Appointment is given to Mr. Sandeep KANDA as a confirmation of compliance with internal qualification requirements as follows:

| Clean Development Mechanism |            |             |                    |                  |
|-----------------------------|------------|-------------|--------------------|------------------|
| Validator                   | Verifier   | Team leader | Technical reviewer | Technical Expert |
| 05-05-2017                  | 05-05-2017 | 05-05-2017  | 05-05-2017         | 05-05-2017       |

| Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon |            |             |                    |                  |
|----------------------------------------------------------------------------------|------------|-------------|--------------------|------------------|
| Validator                                                                        | Verifier   | Team leader | Technical reviewer | Technical Expert |
| 05-05-2017                                                                       | 05-05-2017 | 05-05-2017  | 05-05-2017         | 05-05-2017       |

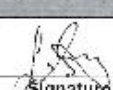
| Speciality | Regional expertise                                                 | Financial expertise | Technical area                                       |
|------------|--------------------------------------------------------------------|---------------------|------------------------------------------------------|
| N/A        | Mexico, China, Indonesia, Thailand, Philippines, Vietnam, Tanzania | 05-05-2017          | 1.1, 1.2, 2.1, 3.1, 4.1, 9.1, 9.2, 13.1, 13.2 & 15.1 |

Within the scope and in strict accordance to the appointment indicated above, the bearer can:

1. Participate in the assessments conducted by Re Carbon Ltd.
2. Take the roles within and outside of the assessment team
3. Bring specific expertise to the assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the person's work agreement is terminated and there is no defined validity period for this Certificate.

However, The Certificate may be updated, suspended or cancelled at any time, as a result of the performance assessments and/or other reasons as defined above.

| APPOINTMENT IS GRANTED BY |                       |            |                                                                                       |
|---------------------------|-----------------------|------------|---------------------------------------------------------------------------------------|
| Mr. Anil SÖYLER           | Certification Manager | 05-05-2017 |  |
| Name                      | Position              | Date       | Signature                                                                             |

F-C-003 / 05.05.2017 10

|                                                                                                                                                                                        |                                   |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------|
| Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti.<br>Başlıca Plaza<br>Muhsin Yazıcıoğlu Cad. 43/11<br>TR / 08520 Balgat-Ankara<br>Tel.: 0300-312-287 5122<br>Fax: 0300-312-287 3373 | <b>Certificate of Appointment</b> |  |
|                                                                                                                                                                                        | Carbon Division                   |                                                                                     |

This Certificate of Appointment is given to **Mr. Anil SÖYLER** as a confirmation of compliance with internal qualification requirements as follows:

| Clean Development Mechanism |            |             |                    |                  |
|-----------------------------|------------|-------------|--------------------|------------------|
| Validator                   | Verifier   | Team leader | Technical reviewer | Technical Expert |
| 05-05-2017                  | 05-05-2017 | N/A         | N/A                | 05-05-2017       |

| Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon |            |             |                    |                  |
|----------------------------------------------------------------------------------|------------|-------------|--------------------|------------------|
| Validator                                                                        | Verifier   | Team leader | Technical reviewer | Technical Expert |
| 05-05-2017                                                                       | 05-05-2017 | 05-05-2017  | N/A                | 05-05-2017       |

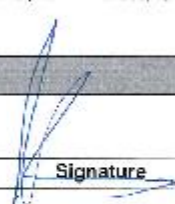
| Speciality | Regional expertise             | Financial expertise | Technical area |  |
|------------|--------------------------------|---------------------|----------------|--|
| N/A        | Turkey, China and Saudi Arabia | N/A                 | 1.2 and 13.1   |  |

Within the scope and in strict accordance to the appointment indicated above, the bearer can:

1. Participate in the assessments conducted by Re Carbon Ltd.
2. Take the roles within and outside of the assessment team
3. Bring specific expertise to the assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the person's work agreement is terminated and there is no defined validity period for this Certificate.

However, The Certificate may be updated, suspended or cancelled at any time, as a result of the performance assessments and/or other reasons as defined above.

| APPOINTMENT IS GRANTED BY |                 |            |                                                                                       |
|---------------------------|-----------------|------------|---------------------------------------------------------------------------------------|
| Mr. Christian JOHANNES    | General Manager | 05-05-2017 |  |
| Name                      | Position        | Date       |                                                                                       |

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|                                                                                                                                                                                     |                                   |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------|
| Re Carbon G zelim Denetim ve Belgelendirme Ltd.  ti.<br>Ba lı Plaza<br>Muhsin Yazıcıo lu Cad. 43/11<br>TR / 06520 Bal at-Ankara<br>Tel: 0090-312-267 5122<br>Fax: 0090-312-267 3373 | <b>Certificate of Appointment</b> |  |
|                                                                                                                                                                                     | Carbon Division                   |                                                                                     |

This Certificate of Appointment is given to **Mr. Sukanta DAS** as a confirmation of compliance with internal qualification requirements as follows:

| Clean Development Mechanism |            |             |                    |                  |
|-----------------------------|------------|-------------|--------------------|------------------|
| Validator                   | Verifier   | Team leader | Technical reviewer | Technical Expert |
| 05-05-2017                  | 05-05-2017 | 05-05-2017  | 05-05-2017         | 05-05-2017       |

| Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon |            |             |                    |                  |
|----------------------------------------------------------------------------------|------------|-------------|--------------------|------------------|
| Validator                                                                        | Verifier   | Team leader | Technical reviewer | Technical Expert |
| 05-05-2017                                                                       | 05-05-2017 | 05-05-2017  | 05-05-2017         | 05-05-2017       |

| Speciality | Regional expertise              | Financial expertise | Technical area  |
|------------|---------------------------------|---------------------|-----------------|
| N/A        | Saudi Arabia, Morocco and India | N/A                 | 1.1, 1.2 & 13.1 |

Within the scope and in strict accordance to the appointment indicated above, the bearer can:

1. Participate in the assessments conducted by Re Carbon Ltd.
2. Take the roles within and outside of the assessment team
3. Bring specific expertise to the assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the personnel's work agreement is terminated and there is no defined validity period for this Certificate.

However, The Certificate may be updated, suspended or cancelled at any time, as a result of the performance assessments and/or other reasons as defined above.

| APPOINTMENT IS GRANTED BY |                       |            |                                                                                       |
|---------------------------|-----------------------|------------|---------------------------------------------------------------------------------------|
| Mr. Anil S YLER           | Certification Manager | 05-05-2017 |  |
| Name                      | Position              | Date       |                                                                                       |



## 8. VALIDATION OPINION

Re Carbon Ltd. has performed the 2<sup>nd</sup> crediting period validation of the “Samsun Landfill Gas to Energy Project, Turkey” in “Turkey” between 15/04/2019 and 30/07/2019. The validation was performed on the basis of UNFCCC criteria for the CDM, Gold Standard and Host Party criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

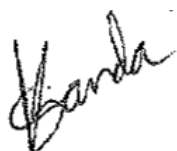
The validation has been performed by a validation team consisting of “Sandeep Kanda as team leader, Anıl Söyler as validator and Sukanta Das as ITR”, and the project activity was checked against the applicable rules and regulations of CDM including CDM Validation and Verification Standard for project activities, version 2.0, CDM Project Standard for project activities, version 2.0, and CDM Project Cycle Procedure for project activities, version 2.0, and GS for Global Goals version 1.0.

Re Carbon Ltd. hereby confirms that the proposed project activity “Samsun Landfill Gas to Energy Project, Turkey” in Turkey, has applied all relevant EB-guidance as the selected baseline and monitoring methodologies and the associated methodological tools have been applied correctly. Total emission reductions from the project are estimated to be around 115,062 tCO<sub>2</sub>e per year over the 2<sup>nd</sup> crediting period. The emission reduction forecast has been checked and it is deemed likely that the stated amount is achieved given that the underlying assumptions do not change.

As a result, the validation team assigned by the Re Carbon Ltd. concludes that the proposed Project Activity “Samsun Landfill Gas to Energy Project, Turkey” in Turkey, as described in the PDD (Version 09, dated 21/01/2020)

- meets all relevant Gold Standard and Host Country criteria;
- meets all relevant requirements of the UNFCCC for CDM project activities [including Article 12 of the Kyoto Protocol, the Modalities and Procedures for CDM (Marrakesh Accords) and the subsequent decisions and guidance by the COP/MOP and the CDM Executive Board];
- applies correctly the baseline and monitoring methodology ACM0001, Version 19 and ACM0002, Version 19;
- is likely to achieve estimated emission reductions;

Therefore, Re Carbon Ltd. requests the renewal of crediting period of the project activity.



Sandeep KANDA  
Team Leader  
22/01/2020



Sukanta DAS  
ITR  
22/01/2020



Anıl SÖYLER  
Certification Manager  
22/01/2020

## **ANNEX 1: VALIDATION PROTOCOL**

### **Table 1 – CDM Renewal of Crediting Period Validation Requirements**

\*DR= Document Review, I= Interview

R-C-01 / 08.10.2018 - 00

| Question                                                                      | Reference            | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| <b>Cover Page-Key Project Information</b>                                     |                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |               |
| 1. Has the following information been indicated in the cover page of the PDD? | GS-PDD-FORM Ver. 1.1 | DR                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |               |
| 1.1. Title of the project activity                                            | GS-PDD-FORM Ver. 1.1 | DR                   | Samsun Landfill Gas to Energy Project, Turkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OK            | OK            |
| 1.2. Brief description of the project                                         | GS-PDD-FORM Ver. 1.1 | DR                   | As per the earlier registered PDD and the last performed 2 <sup>nd</sup> periodic verification, the electricity generation capacity was indicated as 4.8 MW, whereas the PDD submitted for renewal indicates a capacity of 8.4 MW. Please clarify the date of request for design change with respect to the capacity increase, according to "prior consideration rule for projects undergoing a design change" of 29/09/2016. For example, if a project developer intends to include additional gas engines to an already registered GS project, the design change request to include this additional capacity needs to be submitted within a year of the start date of new gas engines i.e., the date when the real action/implementation for the additional gas engines takes place such as signing the contract or the date of release for the payment. Please clarify about the design change, also in the context of the statement about after the capacity addition project commissioning date is 22/05/2018, whereas the project has been operational.<br>Further, it is stated that the project has biogas application, but it is not added to project boundary, although it blends in the same pipe as of LFG and goes to the engines, his too needs to be clarified. Furthermore, the different phases and associated capacities need to be corrected in section A.1 of the PDD and the statement on '...total emission reduction will be 1,126,919 tonnes of CO <sub>2</sub> e for the first crediting period', in section A.6 of the PDD. | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                      | Reference            | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                          | Draft Opinion | Final Opinion |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| 1.3. Expected implementation date                                                                                                             | GS-PDD-FORM Ver. 1.1 | DR                   | The expected implementation date is stated as 22/05/2018, corresponding to the commissioning of additional capacity. Please correct the implementation date. | CAR           | OK            |
| 1.4. Expected duration of the project                                                                                                         | GS-PDD-FORM Ver. 1.1 | DR                   | The expected duration of the project is stated as 28 years.                                                                                                  | OK            | OK            |
| 1.5. Project developer                                                                                                                        | GS-PDD-FORM Ver. 1.1 | DR                   | Samsun Avdan Enerji Üretim ve Tic. A.Ş.                                                                                                                      | OK            | OK            |
| 1.6. Project representative                                                                                                                   | GS-PDD-FORM Ver. 1.1 | DR                   | Rüzgar Danışmanlık-Çağla Balcı Eriş                                                                                                                          | OK            | OK            |
| 1.7. Project participants and any communities involved                                                                                        | GS-PDD-FORM Ver. 1.1 | DR                   | Samsun Avdan Enerji Üretim ve Tic. A.Ş.                                                                                                                      | OK            | OK            |
| 1.8. Version number and date of the PDD                                                                                                       | GS-PDD-FORM Ver. 1.1 | DR                   | First submission for renewal is indicated as version 01, dated 01/03/2019                                                                                    | OK            | OK            |
| 1.9. Host country and location of the project                                                                                                 | GS-PDD-FORM Ver. 1.1 | DR                   | The host country is indicated as Turkey and the location of the project as South-west of Samsun city centre.                                                 | OK            | OK            |
| 1.10. Certification Pathway (Project Certification/Impact Statements & Products Activity Requirements applied: (mark GS4GG if none relevant)) | GS-PDD-FORM Ver. 1.1 | DR                   | The certification pathway is to be corrected.                                                                                                                | CAR           | OK            |
| 1.11. Methodologies applied                                                                                                                   | GS-PDD-FORM Ver. 1.1 | DR                   | ACM0001: Flaring or Used of Landfill Gas (Version 19.0) and ACM0002, Version 19                                                                              | OK            | OK            |
| 1.12. Product requirements applied                                                                                                            | GS-PDD-FORM Ver. 1.1 | DR                   | The product requirements applied needs to be corrected to Gold Standard Verified Emission Reductions (VERs)                                                  | CAR           | OK            |
| 1.13. Regular or retroactive                                                                                                                  | GS-PDD-FORM          | DR                   | Regular                                                                                                                                                      | OK            | OK            |

\*DR= Document Review, I= Interview



| Question                                                                                                                                                                                                                                                                                        | Reference                                                                                                          | Means of Validation* | Findings, Comments, References and Document Sources                                                                                         | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
|                                                                                                                                                                                                                                                                                                 | Ver. 1.1                                                                                                           |                      |                                                                                                                                             |               |               |
| 1.14. SDG Impacts                                                                                                                                                                                                                                                                               | GS-PDD-FORM Ver. 1.1                                                                                               | DR                   | SDG 7, 8, 11 and 13 in the first submission                                                                                                 | OK            | OK            |
| 1.15. Estimated amount of SDG impact certified                                                                                                                                                                                                                                                  | GS-PDD-FORM Ver. 1.1                                                                                               | DR                   | Please state the estimated amount for each of the SDGs (SDG 7, 8, 11 and 13) indicated.                                                     | CAR           | OK            |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                    |                      |                                                                                                                                             |               |               |
| <b>A. Description of Project</b>                                                                                                                                                                                                                                                                | <b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b> |                      |                                                                                                                                             |               |               |
| <b>A.1. Purpose and general description of project</b>                                                                                                                                                                                                                                          | <b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b> |                      |                                                                                                                                             |               |               |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                    |                      |                                                                                                                                             |               |               |
| <b>A.2. Eligibility of the project under Gold Standard</b>                                                                                                                                                                                                                                      | <b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b> |                      |                                                                                                                                             |               |               |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                    |                      |                                                                                                                                             |               |               |
| <b>A.3. Legal ownership of products generated by the project</b>                                                                                                                                                                                                                                |                                                                                                                    |                      |                                                                                                                                             |               |               |
| A.3.1. Is it justified that the project owner has full and uncontested legal ownership of the products that are generated under Gold Standard Certification and has legal rights concerning changes in use of resources required to service the Project for e.g water rights, where applicable? | GS-PDD-FORM Ver. 1.1                                                                                               | DR                   | The project participant Samsun Avdan Enerji Üretim ve Tic. A.Ş. is the legal owner of the project and has the legal rights for the credits. | Ok            | OK            |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                    |                      |                                                                                                                                             |               |               |
| <b>A.4. Location of the project activity</b>                                                                                                                                                                                                                                                    | <b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b> |                      |                                                                                                                                             |               |               |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                    |                      |                                                                                                                                             |               |               |
| <b>A.5. Technologies and/or measures</b>                                                                                                                                                                                                                                                        | <b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b> |                      |                                                                                                                                             |               |               |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                    |                      |                                                                                                                                             |               |               |
| <b>A.6. Scale of the project</b>                                                                                                                                                                                                                                                                | <b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b> |                      |                                                                                                                                             |               |               |

\*DR= Document Review, I= Interview

| Question                                                                                                                                        | Reference                                                                                                   | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                   | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| A.7. Funding source of project                                                                                                                  | This section of the PDD is not reviewed as the project is under validation for renewal of crediting period. |                      |                                                                                                                                                                                                                       |               |               |
| A.8. Assessment that Project Complies with 'Gender Sensitive' Requirements                                                                      |                                                                                                             |                      |                                                                                                                                                                                                                       |               |               |
| A.8.1. Has the evidence been provided that the project concept and design cover the overall societal context from a gender perspective?         | GS-PDD-FORM Ver. 1.1                                                                                        | DR                   | The project being a LFG project is not gender sensitive project. The project does not adversely impact women or men.                                                                                                  | OK            | OK            |
| A.8.2. Does the project reflect the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy? | GS-PDD-FORM Ver. 1.1                                                                                        | DR                   | It is stated that 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. Please submit evidence to confirm the same. | CL            | OK            |
| A.8.3. Has it been explained how the project align with existing country policies, strategies and best practices?                               | GS-PDD-FORM Ver. 1.1                                                                                        | DR                   | Refer to CL above                                                                                                                                                                                                     | CL            | OK            |
| A.8.4. Has it been explained how the project address the questions raised in the Gold Standard Safeguarding Principles & Requirements document? | GS-PDD-FORM Ver. 1.1                                                                                        | DR                   | Yes                                                                                                                                                                                                                   | OK            | OK            |
| A.8.5. Does the project apply the Gold Standard Stakeholder Consultation & Engagement Procedure, Requirements & Guidelines?                     | GS-PDD-FORM Ver. 1.1                                                                                        | DR                   | Yes                                                                                                                                                                                                                   | OK            | OK            |
| B. Application of Selected Approved Gold Standard Methodology                                                                                   |                                                                                                             |                      |                                                                                                                                                                                                                       |               |               |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                  | Reference                                                                          | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| <b>B.1. Reference of approved methodology</b>                                                                                                                                             |                                                                                    |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |               |
| B.1.1. Are the references including the number, title, and the version of the selected methodology(ies) given in the PDD?                                                                 | GS-PDD-FORM Ver. 1.1                                                               | DR                   | Methodology: ACM0001 Flaring or use of Landfill Gas, Version: 19.0 and ACM0002: Grid-connected electricity generation from renewable sources Version 19.0, these being the most recent version of the respective methodology.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ok            | OK            |
| B.1.2. Are the references including the number, title, and the version of any tools and other methodologies to which the selected methodology(ies) refer given in the PDD?                | GS-PDD-FORM Ver. 1.1<br>EB93 Report Annex 4<br>\$53                                | DR                   | Please state the tools referred in the methodology which have been applied. Also ensure that the most recent versions of the tools are referred, Tool to calculate the emission factor for an electricity system latest version available is 7.0, Project emissions from flaring is version 3.0. Further, reference to Category D is to be removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CAR           | OK            |
| <b>B.2. Applicability of methodology</b>                                                                                                                                                  |                                                                                    |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |               |
| B.2.1. Has the PPs justified the choice of the selected methodology(ies), if applicable, by showing that the project activity meets each applicability condition of the methodology(ies)? | GS-PDD-FORM Ver. 1.1<br>EB93 Report Annex 4<br>\$54<br>EB93 Report Annex 5<br>\$67 | DR                   | The applicability conditions as stated in the applied methodology ACM0001, version 19.0 and ACM0002, version 19 are referred and the associated justification is partially provided in the PDD. Also, the applicability conditions in the tools referred to are to be indicated including Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period Version 03.0.1. Further, PP shall provide the recent data about existing landfill sites, which is available in National Inventory Report at UNFCCC web site while applying the tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period. Under step 1.2 of the said tool, assess the circumstances. PP shall update baseline information for the second crediting period accordingly. | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                               | Reference                | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                    | Draft Opinion | Final Opinion |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| B.2.2. Does the project activity meet each of the applicability conditions of the tools or other methodology components referred to in the applied methodology?                                                                        | EB93 Report Annex 5 \$67 | DR                   | Refer CAR above                                                                                                                                                                        | CAR           | OK            |
| B.2.3. Has the PPs explained the documentation that has been used and provided the references to applicability of methodology or included the documentation in Appendix 3 of the PDD?                                                  | GS-PDD-FORM Ver. 1.1     | DR                   | Refer CAR above                                                                                                                                                                        | CAR           | OK            |
| <b>ACM 0002</b>                                                                                                                                                                                                                        |                          |                      |                                                                                                                                                                                        |               |               |
| B.2.4. Is the type of proposed project activity defined?                                                                                                                                                                               | ACM 0002 Version 18.0    | DR                   | Yes, the project installation of a LFG project with a total capacity of 8.4 MW connected to the Turkish national grid and there is no non-renewable component in the project activity. | OK            | OK            |
| B.2.5. If the proposed project activity is a hydro power plant project, does one of the following conditions conform to the proposed project activity?                                                                                 | ACM 0002 Version 18.0    | DR                   | NA                                                                                                                                                                                     | OK            | OK            |
| B.2.5.1. Is the proposed project activity implemented in an existing single or multiple reservoirs, with no change in the volume of any of the reservoirs?                                                                             | ACM 0002 Version 18.0    | DR                   | NA                                                                                                                                                                                     | OK            | OK            |
| B.2.5.2. Is the project activity implemented in an existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density calculated using equation (3), is greater than 4 W/m <sup>2</sup> ? | ACM 0002 Version 18.0    | DR                   | NA                                                                                                                                                                                     | OK            | OK            |
| B.2.5.3. Is the project activity results in new single or multiple reservoirs and the power density calculated using equation (3), is greater than 4 W/m <sup>2</sup> ?                                                                | ACM 0002 Version 18.0    | DR                   | NA                                                                                                                                                                                     | OK            | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                                                                        | Reference                | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------------------------------------------|---------------|---------------|
| B.2.5.4. If the project activity is an integrated hydro power project, has the PPs demonstrated that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project?  | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.2.5.5. If the project activity is an integrated hydro power project, has the PPs provided an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs?                                    | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.2.6. If the project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs calculated using equation (3) is lower than or equal to 4 W/m <sup>2</sup> , do all the following conditions conform the project activity? | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.2.6.1. The power density calculated using the total installed capacity of the integrated project, as per equation (4), is greater than 4 W/m <sup>2</sup> ;                                                                                                                                   | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.2.6.2. Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity;                                                                                                                                                                    | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.2.6.3. Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m <sup>2</sup> shall be:                                                                                                                                                                        | ACM 0002                 | DR                   | NA                                                  | OK            | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                              | Reference                | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Draft Opinion | Final Opinion |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
|                                                                                                                                                                                                                       | Version 18.0             |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |               |
| B.2.6.3.1. Lower than or equal to 15 MW; and                                                                                                                                                                          | ACM 0002<br>Version 18.0 | DR                   | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OK            | OK            |
| B.2.6.3.2. Less than 10 per cent of the total installed capacity of integrated hydro power project.                                                                                                                   | ACM 0002<br>Version 18.0 | DR                   | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OK            | OK            |
| <b>ACM 0001</b>                                                                                                                                                                                                       |                          |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |               |
| B.2.7. Does the project activity include one of the following conditions?                                                                                                                                             | ACM 0001<br>Version 18.0 | DR                   | The justification of the project activity meeting the applicability condition of the methodology ACM0001 is to be further clarified. Further, in light of the increase in waste quantity being disposed at the landfill site, please elaborate further as to how the project does not reduce the amount of organic waste that would be recycled in the absence of the project activity. Also confirm that the management of the SWDS in the project activity is not deliberately changed during the crediting in order to increase methane generation compared to the situation prior to the implementation of the project activity. | CAR           | OK            |
| B.2.7.1. Install a new landfill gas (LFG) capture system in an existing or new (Greenfield) SWDS where no LFG capture system was or would have been installed prior to the implementation of the project activity; or | ACM 0001<br>Version 18.0 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CAR           | OK            |
| B.2.7.2. Make an investment into an existing LFG capture system to increase the recovery rate or change the use of the captured LFG, provided that:                                                                   | ACM 0001<br>Version 18.0 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CAR           | OK            |
| B.2.7.2.1. The captured LFG was vented or flared and not used prior to                                                                                                                                                | ACM 0001                 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                                                                                                               | Reference                | Means of Validation* | Findings, Comments, References and Document Sources       | Draft Opinion | Final Opinion |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------------------------------------------------|---------------|---------------|
| the implementation of the project activity; and                                                                                                                                                                                                                                                                                        | Version 18.0             |                      |                                                           |               |               |
| B.2.7.2.2. In the case of an existing active LFG capture system for which the amount of LFG cannot be collected separately from the project system after the implementation of the project activity and its efficiency is not impacted on by the project system: historical data on the amount of LFG capture and flared is available; | ACM 0001<br>Version 18.0 | DR                   | Refer CAR above                                           | CAR           | OK            |
| B.2.7.3. Flare the LFG and/or use the captured LFG in any (combination) of the following ways:                                                                                                                                                                                                                                         | ACM 0001<br>Version 18.0 | DR                   | The LFG captured would be used for electricity generation | OK            | OK            |
| B.2.7.3.1. Generating electricity;                                                                                                                                                                                                                                                                                                     | ACM 0001<br>Version 18.0 | DR                   | Yes                                                       | OK            | OK            |
| B.2.7.3.2. Generating heat in a boiler, air heater or kiln (brick firing only) or glass melting furnace; and/or                                                                                                                                                                                                                        | ACM 0001<br>Version 18.0 | DR                   | NA                                                        | OK            | OK            |
| B.2.7.3.3. Supplying the LFG to consumers through a natural gas distribution network;                                                                                                                                                                                                                                                  | ACM 0001<br>Version 18.0 | DR                   | NA                                                        | OK            | OK            |
| B.2.7.3.4. Supplying compressed/liquefied LFG to consumers using trucks;                                                                                                                                                                                                                                                               | ACM 0001<br>Version 18.0 | DR                   | NA                                                        | OK            | OK            |
| B.2.7.3.5. Supplying the LFG to consumers through a dedicated pipeline;                                                                                                                                                                                                                                                                | ACM 0001<br>Version 18.0 | DR                   | NA                                                        | OK            | OK            |
| B.2.7.4. Do not reduce the amount of organic waste that would be recycled in the absence                                                                                                                                                                                                                                               | ACM 0001                 | DR                   | NA                                                        | OK            | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                                                         | Reference                | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                                                       | Draft Opinion | Final Opinion |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| of the project activity.                                                                                                                                                                                                                                                         | Version 18.0             |                      |                                                                                                                                                                                                                                                           |               |               |
|                                                                                                                                                                                                                                                                                  |                          |                      |                                                                                                                                                                                                                                                           |               |               |
| <b>B.3. Project boundary</b>                                                                                                                                                                                                                                                     |                          |                      |                                                                                                                                                                                                                                                           |               |               |
| B.3.1. Has the PP described the emission sources and GHGs included in the project boundary for the purpose of calculating project emissions and baseline emissions, in the tabular format?                                                                                       | GS-PDD-FORM Ver. 1.1     | DR                   | The emission sources in the project boundary for the purpose of calculating the project emissions is not in accordance with the methodology and is to be corrected. The emissions from flaring in case of project is not indicated in the tabular format. | CAR           | OK            |
| B.3.2. Has the PP presented a flow diagram of the project boundary, physically delineating the project activity, based on the description provided in section A.3 of the PDD?                                                                                                    | GS-PDD-FORM Ver. 1.1     | DR                   | Yes                                                                                                                                                                                                                                                       | OK            | OK            |
| B.3.3. Has the PP included in the flow diagram the equipment, systems and flows of mass and energy described in section A.3 of the PDD, and indicated in the diagram the emission sources and GHGs included in the project boundary and the data and parameters to be monitored? | GS-PDD-FORM Ver. 1.1     | DR                   | Refer CAR above                                                                                                                                                                                                                                           | CAR           | OK            |
| B.3.4. Does the selected methodology allow the PPs to choose whether a source or gas is to be included in the project boundary?                                                                                                                                                  | EB93 Report Annex 4 \$57 | DR                   | Refer CAR above                                                                                                                                                                                                                                           | CAR           | OK            |
| B.3.5. If the selected methodology allows the project participants to choose whether a source or gas is to be included in the project boundary, do the project participants explain and justify their choices?                                                                   | EB93 Report Annex 4 \$57 | DR                   | Refer CAR above                                                                                                                                                                                                                                           | CAR           | OK            |
| B.3.6. Have all sources and GHGs necessary for the calculation of emissions been included within the project boundary?                                                                                                                                                           | EB93 Report Annex 5 \$69 | DR                   | Refer CAR above                                                                                                                                                                                                                                           | CAR           | OK            |
| B.3.7. Does the PDD correctly describe the project                                                                                                                                                                                                                               | EB93 Report              | DR                   | Refer CAR above                                                                                                                                                                                                                                           | CAR           | OK            |

\*DR= Document Review, I= Interview



| Question                                                                                                                                                                                                                                                                                 | Reference                 | Means of Validation* | Findings, Comments, References and Document Sources                                                                                          | Draft Opinion | Final Opinion |
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| boundary and the physical delineation of the proposed CDM project activity?                                                                                                                                                                                                              | Annex 4 \$56              |                      |                                                                                                                                              |               |               |
| B.3.8. Has the selected methodology been correctly applied with respect to project boundary?                                                                                                                                                                                             | EB93 Report Annex 5 \$63a | DR                   | Refer CAR above                                                                                                                              | CAR           | OK            |
| <b>ACM 0002</b>                                                                                                                                                                                                                                                                          |                           |                      |                                                                                                                                              |               |               |
| B.3.9. Is the spatial extent of the project boundary identified correctly?                                                                                                                                                                                                               | ACM 0002 Version 18.0     | DR                   | The spatial extent of the project boundary has not been indicated clearly in the context of application of ACM0002.                          | CAR           | OK            |
| B.3.10. Are the greenhouse gases and emission sources included in or excluded from the project boundary given in the tabular form as per the guidance given in Table-2 of ACM 0002?                                                                                                      | ACM 0002 Version 18.0     | DR                   | The justification for the GHG gases and sources in the context of ACM0002 are to be clearly presented corresponding to the project activity. | CAR           | OK            |
| <b>ACM 0001</b>                                                                                                                                                                                                                                                                          |                           |                      |                                                                                                                                              |               |               |
| B.3.11. Does the project boundary include the following as applicable?<br>B.3.11.1.Sites where the LFG is flared or used (e.g. flare, power plant, boiler, air heater, glass melting furnace, kiln, natural gas distribution network, dedicated pipeline or biogas processing facility); | ACM 0001 Version 18.0     | DR                   | Refer CAR above                                                                                                                              | CAR           | OK            |
| B.3.11.2.Captive power plant(s) (including emergency diesel generators) or power generation sources connected to the grid, which are supplying electricity to the project activity;                                                                                                      | ACM 0001 Version 18.0     | DR                   | Refer CAR above                                                                                                                              | CAR           | OK            |
| B.3.11.3.Captive power plant(s) (including emergency diesel generators) or power generation sources connected to the grid, which are supplying electricity in the baseline that is displaced by electricity generated by                                                                 | ACM 0001 Version 18.0     | DR                   | Refer CAR above                                                                                                                              | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                             | Reference                                                          | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                        | Draft Opinion | Final Opinion |
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| captured LFG in the project activity;                                                                                                                                                                                                |                                                                    |                      |                                                                                                                                                                                            |               |               |
| B.3.11.4.Heat generation equipment or sources which are supplying heat in the baseline that is displaced by heat generated by captured LFG in the project activity; and                                                              | ACM 0001<br>Version 18.0                                           | DR                   | Refer CAR above                                                                                                                                                                            | CAR           | OK            |
| B.3.11.5.The transportation of the compressed/liquefied LFG from the biogas processing facility to consumers.                                                                                                                        | ACM 0001<br>Version 18.0                                           | DR                   | Refer CAR above                                                                                                                                                                            | CAR           | OK            |
|                                                                                                                                                                                                                                      |                                                                    |                      |                                                                                                                                                                                            |               |               |
| <b>B.4. Establishment and description of the baseline scenario</b>                                                                                                                                                                   |                                                                    |                      |                                                                                                                                                                                            |               |               |
| B.4.1. Does the approved methodology that is selected by the proposed GS project prescribe the baseline scenario and hence no further analysis is required?<br><br>•                                                                 | EB93 Report<br>Annex 5 \$94<br>EB93 Report<br>Annex 4<br>\$48 \$49 | DR                   | The PDD shall present the clear application of section 5.3 of the applied methodology, 'Procedure for the selection of the most plausible baseline scenario and demonstrate additionalty'. | CAR           | OK            |
| B.4.2. Does the PDD identify the baseline for the proposed GS project, defined as the scenario that reasonably represents the anthropogenic emissions by sources of GHGs that would occur in the absence of the proposed GS project? | EB93 Report<br>Annex 5 \$75<br>EB93 Report<br>Annex 4 \$60         | DR                   | Refer CAR above                                                                                                                                                                            | CAR           | OK            |
| B.4.3. If the methodology requires use of the tools to identify the baseline scenario, have all those been applied?                                                                                                                  | EB93 Report<br>Annex 5 \$77                                        | DR                   | Refer CAR above                                                                                                                                                                            | CAR           | OK            |
| B.4.4. Are there relevant national and/or sectoral policies to identify the baseline scenario?                                                                                                                                       | EB93 Report<br>Annex 5 \$81                                        | DR                   | Refer CAR above                                                                                                                                                                            | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                                                                                          | Reference                                                 | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
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| B.4.5. If there are relevant national and/or sectoral policies to identify the baseline scenario, have those been considered correctly in the PDD?                                                                                                                                                                | EB93 Report Annex 4 \$63<br><br>EB93 Report Annex 5 \$83d | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.6. Are there relevant circumstances to identify the baseline scenario?                                                                                                                                                                                                                                        | EB93 Report Annex 5 \$81                                  | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.7. Does the methodology require several alternative scenarios to be considered in the identification of the most reasonable baseline scenario?                                                                                                                                                                | EB93 Report Annex 5 \$78                                  | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.8. If the methodology requires several alternative scenarios to be considered in the identification of the most reasonable baseline scenario, are all credible scenarios that are in the PDD and are supplementary to those required by the methodology reasonable in the context of the proposed G5 project? | EB93 Report Annex 5 \$78                                  | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.9. If the proposed project activity includes several different facilities, technologies, outputs or services, do the alternative scenarios for each of them be identified separately?                                                                                                                         | EB70 Report Annex 8                                       | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.10. If the alternative scenarios for each of them be identified separately, are the realistic combinations of these be considered as possible alternative scenarios to the proposed project activity?                                                                                                         | EB70 Report Annex 8                                       | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.11. Does the list of alternative scenarios given in the PDD include the following?                                                                                                                                                                                                                            | EB93 Report                                               | DR                   | Refer CAR above                                     | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                   | Reference                                       | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------------|---------------|---------------|
| B.4.11.1.The project activity is undertaken without being registered as a GS project                                                                                                       | Annex 5 §93<br>EB93 Report Annex 5 §93a         | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.11.2.All plausible alternatives                                                                                                                                                        | EB93 Report Annex 5 §93b                        | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.11.3.Comply with all applicable and enforced legislation                                                                                                                               | EB93 Report Annex 5 §93c                        | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.12. Has the PP explained how the baseline scenario is established in accordance with the selected methodology(ies)?                                                                    | GS-PDD-FORM Ver. 1.1<br>EB93 Report Annex 4 §62 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.13. Where the procedure in the selected methodology(ies) involves several steps, has the PPs described how each step is applied and transparently documented the outcome of each step? | GS-PDD-FORM Ver. 1.1                            | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.14. Has the PP provided and explained all data used to establish the baseline scenario (variables, parameters, data sources, etc.)?                                                    | GS-PDD-FORM Ver. 1.1                            | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.15. Is the identified baseline scenario reasonably supported by correct and verifiable references, assumptions, calculations and rationales?                                           | GS-PDD-FORM Ver. 1.1<br>EB93 Report Annex 5 §79 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.4.16. Has a transparent description of the baseline scenario been provided including the                                                                                                 | CDM-PDD-FORM                                    | DR                   | Refer CAR above                                     | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Reference                                 | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
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| technology(ies) that would be employed and/or the activities that would take place in the absence of the project activity?                                                                                                                                                                                                                                                                                                                                                                                                                       | version 8.0<br>EB93 Report<br>Annex 5 §80 |                      |                                                     |               |               |
| B.4.17. Has the selected methodology been correctly applied with respect to baseline identification?                                                                                                                                                                                                                                                                                                                                                                                                                                             | EB93 Report<br>Annex 5 §63b               | DR                   | Refer CAR above                                     | CAR           | OK            |
| <b>ACM 0002</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                      |                                                     |               |               |
| B.4.18. If the project activity involves the installation of a greenfield power plant, is the baseline scenario identified appropriately in accordance with the ACM 0002?                                                                                                                                                                                                                                                                                                                                                                        | ACM 0002<br>Version 18.0                  | DR                   | Yes                                                 | OK            | OK            |
| B.4.19. If the project activity involves capacity addition to existing grid-connected renewable power plant/unit, is the baseline scenario identified appropriately in accordance with the ACM0002?                                                                                                                                                                                                                                                                                                                                              | ACM 0002<br>Version 18.0                  | DR                   | NA                                                  | OK            | OK            |
| B.4.20. If the proposed project activity is a capacity addition, retrofit, rehabilitation or replacement, have the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit or rehabilitation of the plant has been undertaken between the start of this minimum historical reference period and the implementation of the project activity? | ACM 0002<br>Version 18.0                  | DR                   | NA                                                  | OK            | OK            |
| B.4.21. If the project activity is the retrofit or replacement of existing grid-connected renewable power plant/unit, is the point of time                                                                                                                                                                                                                                                                                                                                                                                                       | ACM 0002<br>Version 18.0                  | DR                   | NA                                                  | OK            | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                            | Reference                                                                            | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
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| at which the generation facility would likely be replaced or retrofitted (DATE <sub>Baseline</sub> Retrofit) defined?                                                                                                                               |                                                                                      |                      |                                                     |               |               |
| B.4.22. If the project activity is the retrofit or replacement of existing grid-connected renewable power plant/unit, is the baseline scenario identified following the step-wise procedure in accordance with the ACM0002?                         | ACM 0002<br>Version 18.0                                                             | DR                   | NA                                                  | OK            | OK            |
| B.4.23. Are the realistic and credible alternative baseline scenarios for power generation appropriately identified following the Step 1 of the "Combined tool to identify the baseline scenario and demonstrate additionality"?                    | ACM 0002<br>Version 18.0                                                             | DR                   | NA                                                  | OK            | OK            |
| B.4.24. Is "the proposed project activity undertaken without being registered as a CDM project activity" listed as one of the alternatives?                                                                                                         | EB70 Report<br>Annex 8<br>EB93 Report<br>Annex 5<br>§93a<br>ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.4.25. Has "other realistic and credible alternative scenario(s) to the proposed CDM project activity scenario that deliver outputs services or services with comparable quality, properties and application areas" been listed as an alternative? | EB70 Report<br>Annex 8<br>EB93 Report<br>Annex 5<br>§93b<br>ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.4.26. Has "continuation of the current situation (no project activity or other alternatives undertaken" been listed as an alternative?                                                                                                            | EB70 Report<br>Annex 8<br>ACM 0002<br>Version 18.0                                   | DR                   | NA                                                  | OK            | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                                                               | Reference                                                                                                          | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
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| B.4.27. If the barrier analysis is used, is the Step 2 of the latest applicable version of "Combined tool to identify the baseline scenario and demonstrate additionality" applied appropriately?                                                                                      | ACM 0002<br>Version 18.0                                                                                           | DR                   | NA                                                  | OK            | OK            |
| B.4.28. If more than one alternative is remaining after Step 2 and if the remaining alternatives include scenarios P1 and P3, is the Investment Comparison as per step 3 of the "Combined tool to identify the baseline scenario and demonstrate additionality" applied appropriately? | ACM 0002<br>Version 18.0                                                                                           | DR                   | NA                                                  | OK            | OK            |
| B.4.29. If more than one alternative is remaining after Step 2 and if the remaining alternatives include scenarios P1 and P2, is the Benchmark Analysis as per step 2b of the "Tool for the demonstration and assessment of additionality" applied appropriately?                      | ACM 0002<br>Version 18.0                                                                                           | DR                   | NA                                                  | OK            | OK            |
| <b>ACM 0001</b>                                                                                                                                                                                                                                                                        |                                                                                                                    |                      |                                                     |               |               |
| Has the the most plausible baseline scenario been determined according to the simplified procedures or the procedures according to the latest applicable version of the "Combined tool to identify the baseline scenario and demonstrate additionality"?                               | ACM 0001<br>Version 18.0                                                                                           | DR                   | Refer CAR above                                     | CAR           | OK            |
| c)                                                                                                                                                                                                                                                                                     |                                                                                                                    |                      |                                                     |               |               |
| <b>B.5. Demonstration of additionality</b>                                                                                                                                                                                                                                             | <b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b> |                      |                                                     |               |               |
| <b>B.6. Sustainable Development Goals (SDG) outcomes</b>                                                                                                                                                                                                                               |                                                                                                                    |                      |                                                     |               |               |
| <b>B.6.1. Relevant target for each of the three SDGs</b>                                                                                                                                                                                                                               |                                                                                                                    |                      |                                                     |               |               |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                            | Reference            | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Draft Opinion | Final Opinion |
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| B.6.1.1. Has the PPs specified the relevant SDG target for each of three SDGs addressed by the project?                                                             | GS-PDD-FORM Ver. 1.1 | DR                   | The target and indicators for the SDG7, 8, 11 and 13 have been indicated in the submitted PDD. Please clarify, how the project activity addresses SDG11, Target 11.6, Indicator 11.6.1, as the solid waste would be going to landfill site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CAR           | OK            |
|                                                                                                                                                                     |                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| <b>B.6.2. Explanation of methodological choices/approaches for estimating the SDG outcome</b>                                                                       |                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| B.6.2.1. Has the PPs explained how the methods or methodological steps in the selected methodology(ies), for calculating baseline and project outcomes are applied? | GS-PDD-FORM Ver. 1.1 | DR                   | Please clarify the basis of arriving at the expected electricity generation of 54,600 MWh per annum by the project activity for SDG 7.<br>For SDG 8, please clarify and provide evidence to confirm that the employment generation between 20 to 25 is related to the project activity.<br>Further clarify how the project contributes to increase in solid waste collection, for SDG 11.<br>In context of SDG 13, the most recent version of the 'Tool to calculate the emission factor of an electricity system' and 'Project emission from flaring' has not been applied. Furthermore, the most recent set of data available for grid emission factor calculation has not been referred. The submitted PDD presents grid data for the period 2012 – 2016. | CAR           | OK            |
| B.6.2.1.1. Baseline                                                                                                                                                 | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CAR           | OK            |
| B.6.2.1.2. Project                                                                                                                                                  | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CAR           | OK            |
| B.6.2.1.3. Leakage                                                                                                                                                  | GS-PDD-              | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CAR           | OK            |

\*DR= Document Review, I= Interview



| Question                                                                                                                                                          | Reference                                   | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------|-----------------------------------------------------|---------------|---------------|
| B.6.2.1.4. Net benefit                                                                                                                                            | FORM Ver. 1.1<br>GS-PDD-FORM Ver. 1.1       | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.2.2. Has the PPs clearly stated which equations will be used in calculating net benefit?                                                                      | GS-PDD-FORM Ver. 1.1                        | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.2.3. Has the PPs explained and justified all relevant methodological choices including the following?                                                         | GS-PDD-FORM Ver. 1.1<br>EB93 Report Annex 4 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.2.3.1. Where the methodology(ies) include different scenarios or cases, indicate and justify which scenario or case applies to the project activity           | GS-PDD-FORM Ver. 1.1<br>EB93 Report Annex 4 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.2.3.2. Where the methodology(ies) provide different options to choose from, indicate and justify which option is chosen for the project activity              | GS-PDD-FORM Ver. 1.1<br>EB93 Report Annex 4 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.2.3.3. Where the methodology(ies) allow different default values, indicate and justify which of the default values have been chosen for the project activity. | GS-PDD-FORM Ver. 1.1                        | DR                   | Refer CAR above                                     | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                                                     | Reference            | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                                                                                                                                                                                              | Draft Opinion | Final Opinion |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| <b>B.6.3. Data and parameters fixed ex ante for monitoring contribution to each of the three SDGs</b>                                                                                                                                                                        |                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                  |               |               |
| B.6.3.1. Have the PPs included a compilation of information on the data and parameters that are <b>not monitored</b> during the crediting period but are determined before the registration and remain fixed throughout the crediting period under section B.6.3 of the PDD? | GS-PDD-FORM Ver. 1.1 | DR                   | The section B.6.3 of the PDD presenting the data and parameters fixed ex ante for monitoring contribution to each of the relevant SDGs has not been correctly populated. The GWP of methane is wrongly cited along with its associated to SDG 11.<br>Further the parameters which are to be monitored during the crediting period and not fixed ex ante are not to be included in section B.6.3. | CAR           | OK            |
| B.6.3.2. Are the data that are calculated with the equations provided in the selected methodology(ies) or default values specified in the methodology(ies) included in the compilation?                                                                                      | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                  | CAR           | OK            |
| B.6.3.3. Are the following information regarding the data and parameters specified correctly?                                                                                                                                                                                | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                  | CAR           | OK            |
| B.6.3.3.1. Relevant SDG indicator                                                                                                                                                                                                                                            | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                  | CAR           | OK            |
| B.6.3.3.2. Data/parameter                                                                                                                                                                                                                                                    | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                  | CAR           | OK            |
| B.6.3.3.3. Data/parameter unit                                                                                                                                                                                                                                               | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                  | CAR           | OK            |
| B.6.3.3.4. Description of the                                                                                                                                                                                                                                                | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                  | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                 | Reference            | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
|------------------------------------------------------------------------------------------|----------------------|----------------------|-----------------------------------------------------|---------------|---------------|
| data/parameter                                                                           | FORM Ver. 1.1        |                      |                                                     |               |               |
| B.6.3.3.5. Source of data                                                                | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.3.3.6. Values applied to data/parameter                                              | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.3.4. Where applied values have been measured, are the following included in the PDD? | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.3.4.1. The equipment used                                                            | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.3.4.2. The standards used                                                            | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.3.4.3. Responsible person/entity having undertaken the measurement                   | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.3.4.4. The date of measurement(s)                                                    | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.3.4.5. The frequency of measurement(s)                                               | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.6.3.4.6. The measurement results                                                       | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                | Reference                                             | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                       | Draft Opinion | Final Opinion |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| B.6.3.5. Has the purpose of data been chosen as one of the following for each data/parameter?                                                                                           | GS-PDD-FORM Ver. 1.1                                  | DR                   | Refer CAR above                                                                                                                                                           | CAR           | OK            |
| B.6.3.5.1. Calculation of baseline;                                                                                                                                                     | GS-PDD-FORM Ver. 1.1                                  | DR                   | Refer CAR above                                                                                                                                                           | CAR           | OK            |
| B.6.3.5.2. Calculation of project;                                                                                                                                                      | GS-PDD-FORM Ver. 1.1                                  | DR                   | Refer CAR above                                                                                                                                                           | CAR           | OK            |
| B.6.3.5.3. Calculation of leakage.                                                                                                                                                      | GS-PDD-FORM Ver. 1.1                                  | DR                   | Refer CAR above                                                                                                                                                           | CAR           | OK            |
|                                                                                                                                                                                         |                                                       |                      |                                                                                                                                                                           |               |               |
| <b>B.6.4. Ex ante estimation of outcomes linked to each of the three SDGs</b>                                                                                                           |                                                       |                      |                                                                                                                                                                           |               |               |
| B.6.4.1. Do the steps taken and equations applied to calculate following comply with the requirements of the selected baseline and monitoring methodology including applicable tool(s)? | EB93 Report Annex 4 \$70<br>EB93 Report Annex 5 \$110 | DR                   | The section B.6.4 of the PDD presenting the ex-ante estimation of outcomes linked to each of the SDGs has not been clearly populated.                                     | CAR           | OK            |
| B.6.4.1.1. project outcome                                                                                                                                                              | EB93 Report Annex 4 \$70<br>EB93 Report Annex 5 \$110 | DR                   | The relevant equations for project emissions along with associated justification is to be clearly indicated in section B.6.4 of the PDD.                                  | CAR           | OK            |
| B.6.4.1.2. baseline outcome                                                                                                                                                             | EB93 Report Annex 4 \$70<br>EB93 Report               | DR                   | The dataset used to compute the grid emission factor for SDG 13 should correspond to the most recent dataset available. Also, provide clear evidence and justification on | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                      | Reference                                                         | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                        | Draft Opinion | Final Opinion |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
|                                                                                                                                                                                               | Annex 5<br>\$110                                                  |                      | the use of lower efficiency values of 39% for coal and lignite. Further, the spreadsheet depicting the calculation of the grid emission factor along with source files is to be submitted. |               |               |
| B.6.4.1.3. leakage                                                                                                                                                                            | EB93 Report<br>Annex 4<br>\$70<br>EB93 Report<br>Annex 5<br>\$110 | DR                   | The reference to the applied methodology and associated version in context of leakage is not stated correctly.                                                                             | CAR           | OK            |
| B.6.4.1.4. Net outcomes                                                                                                                                                                       | EB93 Report<br>Annex 4<br>\$70<br>EB93 Report<br>Annex 5<br>\$110 | DR                   | Refer CAR above                                                                                                                                                                            | CAR           | OK            |
| B.6.4.2. Where the methodology allows for selection between options for equations or parameters, has adequate justification been provided in the PDD?                                         | EB93 Report<br>Annex 5<br>\$111                                   | DR                   | Refer CAR above                                                                                                                                                                            | CAR           | OK            |
| B.6.4.3. Has the PPs used the values contained in the tables in section B.6.2 of the PDD for data and parameters available before registration?                                               | GS-PDD-FORM<br>Ver. 1.1                                           | DR                   | Refer CAR above                                                                                                                                                                            | CAR           | OK            |
| B.6.4.4. Has the PPs used the estimates contained in the table in section B.6 of the PDD for the data/parameters not available before registration and monitored during the crediting period? | GS-PDD-FORM<br>Ver. 1.1                                           | DR                   | Refer CAR above                                                                                                                                                                            | CAR           | OK            |
| B.6.4.5. If any of these estimates has been determined by a sampling approach, has the PP provided a description of the sampling                                                              | GS-PDD-FORM                                                       | DR                   | NA                                                                                                                                                                                         | OK            | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                                                                                                | Reference                                 | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                       | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| efforts undertaken in accordance with the “Standard for sampling and surveys for CDM project activities and programme of activities”?                                                                                                                                                                                   | Ver. 1.1<br>EB93 Report<br>Annex 4<br>§74 |                      |                                                                                                                                                           |               |               |
| B.6.4.6. Has the PPs provided a sample calculation for each equation used?                                                                                                                                                                                                                                              | GS-PDD-FORM<br>Ver. 1.1                   | DR                   | Refer CAR above                                                                                                                                           | CAR           | OK            |
| B.6.4.7. Have the PPs provided a sample calculation for each equation used, substituting the values used in the equations?                                                                                                                                                                                              | GS-PDD-FORM<br>Ver. 1.1                   | DR                   | Refer CAR above                                                                                                                                           | CAR           | OK            |
| B.6.4.8. Is it explained and clearly stated how the procedures in the approved methodology or standardized baseline(s) to calculate emissions like project emissions, baseline emissions and leakages are applied by the PPs?                                                                                           | EB93 Report<br>Annex 5<br>§112            | DR                   | Refer CAR above                                                                                                                                           | CAR           | OK            |
| B.6.4.9. Has the selected methodology or standardized baseline(s) been correctly and transparently applied with respect to algorithms and/or formulae used to determine emission reductions?                                                                                                                            | EB93 Report<br>Annex 4<br>§63c            | DR                   | Refer CAR above                                                                                                                                           | CAR           | OK            |
| <b>ACM 0002</b>                                                                                                                                                                                                                                                                                                         |                                           |                      |                                                                                                                                                           |               |               |
| B.6.4.10. Are baseline emissions calculated using equation (11) given in the methodology?                                                                                                                                                                                                                               | ACM 0002<br>Version 18.0                  | DR                   | Yes                                                                                                                                                       | OK            | OK            |
| B.6.4.11. Is the quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year $y$ ( $E_{Grid,y}$ ) calculated using equations (12), (13), (14), (15) or (16) given in the methodology depending on the project type and relevant | ACM 0002<br>Version 18.0                  | DR                   | The net electricity exported to the grid system during the year $y$ is inconsistently stated as 208,067MWh/annum. Please clarify and correct accordingly. | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                                                                                        | Reference                | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------------------------------------------|---------------|---------------|
| ➤ requirements?                                                                                                                                                                                                                                                 |                          |                      |                                                     |               |               |
| B.6.4.12. When the methodology offers options for approaches in calculations, is it documented in the PDD which option is applied?                                                                                                                              | ACM 0002<br>Version 18.0 | DR                   | Yes                                                 | OK            | OK            |
| B.6.4.13. In the case of retrofits or replacements, has the point in time when the existing equipment would need to be replaced/retrofitted in the absence of the project chosen in a conservative manner?                                                      | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.6.4.14. In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects)                                                                                                | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.6.4.14.1. Is it ensured that the existing plant started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions?                                                       | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.6.4.14.2. Is it defined in the baseline emission section that no capacity addition, retrofit or rehabilitation of the plant has been undertaken between the start of this minimum historical reference period and the implementation of the project activity? | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |
| B.6.4.15. Are the project emissions calculated properly using equations (1), (2), (3), (4), (5), (6), (7), (8), (9) or (10) given in the                                                                                                                        | ACM 0002<br>Version 18.0 | DR                   | NA                                                  | OK            | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                 | Reference                | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                                                                                                                                                    | Draft Opinion | Final Opinion |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| methodology depending on the project type and the power density value?                                                                                   |                          |                      |                                                                                                                                                                                                                                                                                                                                                        |               |               |
| B.6.4.16. Where project emissions are taken as "0", has the PP made proper justification?                                                                | ACM 0002<br>Version 18.0 | DR                   | NA                                                                                                                                                                                                                                                                                                                                                     | OK            | OK            |
| B.6.4.17. Are the emission reductions calculated using equation (17) given in the methodology?                                                           | ACM 0002<br>Version 18.0 | DR                   | Yes                                                                                                                                                                                                                                                                                                                                                    | OK            | OK            |
| <b>ACM 0001</b>                                                                                                                                          |                          |                      |                                                                                                                                                                                                                                                                                                                                                        |               |               |
| B.6.4.18. Are the baseline emissions calculated using relevant equations from equation (1) to equation (21) in the methodology?                          | ACM 0001<br>Version 18.0 | DR                   | The sample calculation in context of application of 'Emissions from solid waste disposal sites' version 08 has not been provided.                                                                                                                                                                                                                      | CAR           | OK            |
| •                                                                                                                                                        |                          |                      |                                                                                                                                                                                                                                                                                                                                                        |               |               |
| B.6.4.19. Are the project emissions calculated using relevant equations from equation (22) to equation (25) in the methodology?                          | ACM 0001<br>Version 18.0 | DR                   | Yes                                                                                                                                                                                                                                                                                                                                                    | OK            | OK            |
| B.6.4.20. Are the emission reductions calculated using equation (26) in the methodology?                                                                 | ACM 0001<br>Version 18.0 | DR                   | Refer to CAR above                                                                                                                                                                                                                                                                                                                                     | CAR           | OK            |
|                                                                                                                                                          |                          |                      |                                                                                                                                                                                                                                                                                                                                                        |               |               |
| <b>B.6.5. Summary of the ex-ante estimates of SDG outcomes</b>                                                                                           |                          |                      |                                                                                                                                                                                                                                                                                                                                                        |               |               |
| B.6.5.1. Have the PPs summarized the results of the ex-ante calculation of SDG outcomes for all years of the crediting period, using the tabular format? | GS-PDD-FORM<br>Ver. 1.1  | DR                   | The section B.6.5 of the PDD presenting the summary of ex-ante estimates of SDG outcomes linked to each of the SDGs has not been correctly populated. The years are to be corrected. The unit for SDG7 is incorrectly stated as MW. The impact of the project on SDG 11 is unclear. For SDG13, the tabular presentation needs to be further clarified. | CAR           | OK            |
|                                                                                                                                                          |                          |                      |                                                                                                                                                                                                                                                                                                                                                        |               |               |
| <b>B.7. Monitoring Plan</b>                                                                                                                              |                          |                      |                                                                                                                                                                                                                                                                                                                                                        |               |               |
| <b>B.7.1. Data and parameters to be monitored</b>                                                                                                        |                          |                      |                                                                                                                                                                                                                                                                                                                                                        |               |               |

\*DR= Document Review, I= Interview



| Question                                                                                                                  | Reference            | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Draft Opinion | Final Opinion |
|---------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| B.7.1.1. In the data/parameter tabular formats for monitoring, has the name of each relevant SDG indicator been included? | GS-PDD-FORM Ver. 1.1 | DR, SV               | <p>Please provide the details of the monitoring equipment, i.e. electricity metering devices, gas analyzer, etc. Please include a summary of requirements for calibration in accordance with the manufacturer's specifications in the PDD. For net electricity supplied to the grid, reference to TEDAS meters is stated. Further, the meter serial no.s are stated as 00436731 and 00436730. During the site visit, the meter no.s were found to be 65001340 and 00436730 for the main and back-up meter respectively. Please clarify if there has been any change in the meter(s) and correct the PDD accordingly.</p> <p>Instead of reference to SDG11 indicator, the SDG13 indicator should be applied.</p> <p>The use of orifice plate technology flow meter for 'Mass flow of methane in the residual gas in the minute m' is not appropriate. It is stated that 'This parameter is calculated by multiplying LFGflare, density of methane and wCH4 (percentage of methane measured by the gas analyzer)'. Different tables for the measured and monitored parameters are to be presented instead of calculated values.</p> <p>It is unclear about the location of the measurement for 'Temperature of the gaseous stream'.</p> <p>Also confirm that the temperature of the gaseous stream is in compliance with the requirements of dry basis used to calculate the mass flow of GHG in the gaseous stream. Please clarify about the number and type of equipment for monitoring 'Operational hours of the power plant'.</p> <p>The value for the parameter 'AF' has not been indicated. The basis of the parameter 'CFEM' is unclear.</p> | CAR           | OK            |
| B.7.1.2. In the data/parameter tabular formats for monitoring, has the name of each                                       | GS-PDD-FORM          | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                     | Reference            | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
|------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-----------------------------------------------------|---------------|---------------|
| data/parameter been included?                                                                                                | Ver. 1.1             |                      |                                                     |               |               |
| B.7.1.3. Has the unit of each data/parameter been included?                                                                  | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.4. Has the description of each data/parameter been included?                                                           | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.5. Has the source of each data/parameter been included?                                                                | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.6. Where several sources of data/parameters are used, is the choice of data/parameter sources explained and justified? | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.7. Has the applied value of each data/parameter been included?                                                         | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.8. Has the measurement methods and procedures been included?                                                           | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.9. Has the PPs included which measurement equipment is used for monitoring?                                            | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.10. Have the PPs included description of calibration procedures for the monitoring equipment including the following?  | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.10.1. Frequency of the calibration                                                                                     | GS-PDD-FORM Ver. 1.1 | DR                   | Refer CAR above                                     | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                      | Reference                | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------|--------------------------|----------------------|-----------------------------------------------------|---------------|---------------|
| B.7.1.10.2. Accuracy of the calibration                                       | EB93 Report Annex 4 §76c |                      |                                                     |               |               |
| B.7.1.10.2. Accuracy of the calibration                                       | EB93 Report Annex 4 §76b | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.10.3. Uncertainty of the calibration                                    | EB93 Report Annex 4 §76b | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.10.4. Calibrating agency/person                                         | EB93 Report Annex 4 §76b | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.10.5. The relevant national/international standards                     | EB93 Report Annex 4 §76c | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.11. Has the accuracy level of the measurement method included?          | EB93 Report Annex 4 §76b | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.12. Has the responsible person/entity for the measurements included?    | GS-PDD-FORM Ver. 1.1     | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.13. Has the interval for the measurements included?                     | GS-PDD-FORM Ver. 1.1     | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.14. Has the monitoring frequency for each data/parameter been included? | GS-PDD-FORM Ver. 1.1     | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.15. Has the QA/QC procedures of each data/parameter been included?      | GS-PDD-FORM              | DR                   | Refer CAR above                                     | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                                              | Reference                                                          | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------|-----------------------------------------------------|---------------|---------------|
|                                                                                                                                                                                                       | Ver. 1.1<br>EB93 Report<br>Annex 4<br>\$76a                        |                      |                                                     |               |               |
| B.7.1.16.Has the purpose of data/parameter been chosen as one of the following for each data/parameter?                                                                                               | GS-PDD-FORM<br>Ver. 1.1                                            | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.16.1. Calculation of baseline outcome;                                                                                                                                                          | GS-PDD-FORM<br>Ver. 1.1                                            | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.16.2. Calculation of project outcome;                                                                                                                                                           | GS-PDD-FORM<br>Ver. 1.1                                            | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.16.3. Calculation of leakage.                                                                                                                                                                   | GS-PDD-FORM<br>Ver. 1.1                                            | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.17.Have the PPs developed and described the monitoring plan for the proposed project activity in accordance with the selected methodology(ies) and all other applicable rules and requirements? | EB93 Report<br>Annex 4 \$75<br>EB93 Report<br>Annex 5<br>\$117     | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.18.Does the monitoring plan include all data, parameters and related information required by the selected methodology(ies)?                                                                     | EB93 Report<br>Annex 4 \$76<br>EB93 Report<br>Annex 5<br>\$118a-ii | DR                   | Refer CAR above                                     | CAR           | OK            |
| B.7.1.19.Are the monitoring arrangements described in the monitoring plan feasible within the project design?                                                                                         | EB93 Report<br>Annex 5<br>\$118b                                   | DR                   | Refer CAR above                                     | CAR           | OK            |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                                  | Reference                                                                                                   | Means of Validation * | Findings, Comments, References and Document Sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Draft Opinion | Final Opinion |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
|                                                                                                                                                                           |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
|                                                                                                                                                                           |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| B.7.2. Sampling plan                                                                                                                                                      |                                                                                                             |                       | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ok            | OK            |
|                                                                                                                                                                           |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| B.7.3. Other elements of monitoring plan                                                                                                                                  |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| B.7.3.1. Has the operational and management structure been given in the monitoring plan to monitor emission reductions and any leakage generated by the project activity? | GS-PDD-FORM Ver. 1.1<br>EB93 Report Annex 4 §77a                                                            | DR                    | The section B.7.3 of the PDD presenting the other elements of the monitoring plan including the operational and management structure, roles and responsibilities and institutional arrangements for data collection and archiving has not been completely provided. The reference to the table in the section with methane fraction being measured by flow meter is unclear. Further, the description is mostly in context of electricity generation, referring to YEDAS. Please check and clarify the relationship of YEDAS and EMRA as against TIEAS and PMUM stated in the earlier registered PDD. Also include the details in context of LFG monitoring. | CAR           | OK            |
| B.7.3.2. Has the PP clearly indicated the responsibilities and institutional arrangements for data collection and archiving?                                              | GS-PDD-FORM Ver. 1.1<br>EB93 Report Annex 4 §77c                                                            | DR                    | Refer CAR above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CAR           | OK            |
|                                                                                                                                                                           |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| C. Duration and crediting period                                                                                                                                          |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.                                                               |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| C.1. Duration of project                                                                                                                                                  |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| C.1.1. Start date of project                                                                                                                                              |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
|                                                                                                                                                                           |                                                                                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |
| C.1.2. Expected operational lifetime of project                                                                                                                           | This section of the PDD is not reviewed as the project is under validation for renewal of crediting period. |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |

\*DR= Document Review, I= Interview

| Question                                                                                                                                                    | Reference                                                                                                   | Means of Validation* | Findings, Comments, References and Document Sources                                                                                                                                                                                                                                                                                           | Draft Opinion | Final Opinion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| <b>C.2. Crediting period of project</b>                                                                                                                     |                                                                                                             |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |
| <b>C.2.1. Start date of crediting period</b>                                                                                                                |                                                                                                             |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |
| C.2.1.1. Is the start date of the crediting period of the project activity given in DD/MM/YYYY format?                                                      | GS-PDD-FORM Ver. 1.1                                                                                        | DR                   | The end date of the initial crediting period is 08/02/2018. As outlined in GS Annex Z, application for renewal of crediting period is to be submitted to Gold Standard within one year after the end of previous crediting period. Please provide communication if any with GS regarding prior approved exception in this case for the delay. | CAR           | OK            |
| C.2.1.2. Have the PPs determined only one start date for the crediting period, even in cases of phased implementation of the proposed CDM project activity? | EB93 Report Annex 4 \$84                                                                                    | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                               | CAR           | OK            |
| C.2.1.3. Has the PPs used any qualifications to the start date, such as "expected"?                                                                         | EB93 Report Annex 4 \$85                                                                                    | DR                   | Refer CAR above                                                                                                                                                                                                                                                                                                                               | CAR           | OK            |
|                                                                                                                                                             |                                                                                                             |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |
| <b>C.2.2. Total length of crediting period</b>                                                                                                              |                                                                                                             |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |
| C.2.2.1. Is the length of the crediting period of the proposed project activity stated in years and months under section C.2.3 of the PDD?                  | GS-PDD-FORM Ver. 1.1                                                                                        | DR                   | Yes                                                                                                                                                                                                                                                                                                                                           | OK            | OK            |
|                                                                                                                                                             |                                                                                                             |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |
| <b>D. Safeguarding principles assessment</b>                                                                                                                | This section of the PDD is not reviewed as the project is under validation for renewal of crediting period. |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |
| <b>D.1. Analysis of social, economic and environmental impacts</b>                                                                                          |                                                                                                             |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |
|                                                                                                                                                             |                                                                                                             |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |
| <b>E. Local Stakeholder Consultation</b>                                                                                                                    | This section of the PDD is not reviewed as the project is under validation for renewal of crediting period. |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |
| <b>E.1. Solicitation of comments from stakeholders</b>                                                                                                      |                                                                                                             |                      |                                                                                                                                                                                                                                                                                                                                               |               |               |

\*DR= Document Review, I= Interview

| Question                                                 | Reference                                                                                                   | Means of Validation* | Findings, Comments, References and Document Sources | Draft Opinion | Final Opinion |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------|---------------|---------------|
|                                                          |                                                                                                             |                      |                                                     |               |               |
| <b>E.2. Summary of comments received</b>                 | This section of the PDD is not reviewed as the project is under validation for renewal of crediting period. |                      |                                                     |               |               |
|                                                          |                                                                                                             |                      |                                                     |               |               |
| <b>E.3. Report on consideration of comments received</b> | This section of the PDD is not reviewed as the project is under validation for renewal of crediting period. |                      |                                                     |               |               |

| Question                                                                                  | Reference            | Means of validation* | Findings, comments, references and document sources                           | Draft opinion | Final opinion |
|-------------------------------------------------------------------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------|---------------|---------------|
| <b>Appendix-1 Contact information of project participants</b>                             |                      |                      |                                                                               |               |               |
| 1. Is the contact information of PPs listed in Section A.4 of PDD provided in Appendix 1? | GS-PDD-FORM Ver. 1.1 | DR                   | Yes                                                                           | OK            | OK            |
| <b>Appendix-2 Summary of post registration design changes</b>                             |                      |                      |                                                                               |               |               |
| 1. If applicable, is the summary of the post registration changes provided?               | GS-PDD-FORM Ver. 1.1 | DR                   | Please update on the submission of design change request to GS on 15/03/2019. | CAR           | OK            |

\*DR= Document Review, I= Interview

Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests

| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| CAR-1<br>a) As per the earlier registered PDD and the last performed 2 <sup>nd</sup> periodic verification, the electricity generation capacity was indicated as 4.8 MW, whereas the PDD submitted for renewal indicates a capacity of 8.4 MW. Please clarify the date of request for design change with respect to the capacity increase, according to "prior consideration rule for projects undergoing a design change" of 29/09/2016. (For example, if a project developer intends to include additional gas engines to an already registered GS project, the design change request to include this additional capacity needs to be submitted within a year of the start date of new gas engines i.e., the date when the real action/implementation for the additional gas engines takes place such as signing the contract or the date of release for the payment.)<br>b) Please clarify about the design change, also in the context of the statement about after the capacity addition project commissioning date is 22/05/2018, whereas the project has been operational.<br>c) It is stated that the project has biogas application, but it is not added to project boundary, although it blends in the same pipe | 1.2                                    | a) On 10/12/2018 application was applied to GS. On 17 January 2019 the conditions have been accepted by GS. On 17 March 2019, the interview was made with Sustaincert. Sustaincert accepted the conditions on March 19, 2019. The e-mails have been provided to DOE.<br>b) Commissioning documents have been provided.<br><b>PP Response 2:</b> The implementation date has been revised as 13/09/2011 in the PDD.<br>c) The project also has Biogas application but it is not added to project boundary. The same pipe has biogas and LFG gas. Calculations will be done through the Biogas and LFG Gas amounts.<br><b>PP Response 2:</b><br>The biogas part is developed with the design change. The biogas part is outside of the project boundary. The LFG and biogas are both burned at the same engine, they have separate flowmeters and measured separately. The calculation of electric energy produced from LFG is calculated based on conservative assumptions and these measurements.<br>This set-up is communicated to the GS on 10/12/2018 at application. On 17 January 2019 the conditions have been accepted by GS. On 17 March 2019, the interview was made with Sustaincert. Sustaincert | Review-1<br>a) OK Closed<br>b) The implementation date is to be corrected; it is not to correspond to the latest engine commissioning date.<br>c) The response is unclear. Besides that, further details about the biogas part are yet not provided. Please clarify if this been part of the project activity prior or this too is design change? If it is design change, then communication with GS/SustainCert is to be provided.<br>a) OK Closed<br>b) OK Closed<br>Review-2<br>b) Please do not change the format of the PDD (changed from 'Expected Implementation Date:' to 'Start date of the project') and also correct the date currently stated as 22/05/2018. |

\* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request



| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                                                                                       | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <p>d) as of LFG and goes to the engines, his too needs to be clarified.</p> <p>d) The different phases and associated capacities need to be corrected in section A.1 of the PDD and the statement on '...total emission reduction will be 1,126,919 tonnes of CO2e for the first crediting period', in section A.6 of the PDD.</p> <p>e) Please remove the wind power plant or similar terms which are irrelevant with the project activity throughout the PDD.</p> |                                        | <p>accepted the conditions on March 19, 2019. The e-mails have been already provided to the DOE on 13<sup>th</sup> May.</p> <p>d) The description has been revised as "second crediting period".</p> <p>e) Corrected.</p> <p><b>PP Response 3:</b></p> <p>b) The Start date of the project has revised as 'Expected Implementation Date:' according to correct format of the PDD. And the date also revised as 13/09/2010.</p> <p><b>PP Response 4:</b></p> <p>The PDD version, has revised as version 04. The methodology version has been revised as ACM0001 Version 19.0</p> <p><b>PP Response 5:</b></p> <p>The version of the PDD for renewal has been revised as version 06. The emission reduction estimate value in the PDD and ER sheet are consistent now.</p> | <p>c) Ok closed</p> <p>Review-3</p> <p>The above point has been addressed, however, to maintain consistency in numbering of the PDD version, the number should not reduce from version 04 to version 03 for the subsequent PDD and please consider correcting the version number. Further, the PP may consider updating the version of the applied methodology ACM0001.</p> <p>Review-4</p> <p>The version of the PDD for renewal should be more than the previously registered version (04). Besides that, the emission reduction estimate value in the PDD and ER sheet are not consistent.</p> <p>Review-5</p> <p>Ok</p> <p>Closed</p> |
| <p>CAR-2</p> <p>The expected implementation date is stated as</p>                                                                                                                                                                                                                                                                                                                                                                                                   | <p>1.3</p>                             | <p>Expected definition has been removed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>Review-1</p> <p>The implementation date is to be</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

\* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

## PROJECT NUMBER: 544

| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                  | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                       | Validation Team Conclusion                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22/05/2018, corresponding to the commissioning of additional capacity. Please correct the implementation date.                                 |                                        | <p><b>PP Response 2:</b> Implementation date has been revised as 13/09/2010. The definition has revised also as start date of the project on first page as 13/09/2010.</p> <p><b>PP Response 3:</b></p> <p>b) The Start date of the project has revised as 'Expected Implementation Date:' according to correct format of the PDD. And the date also revised as 13/09/2010.</p> | <p>corrected.</p> <p>Review-2</p> <p>Please do not change the format of the PDD (changed from 'Expected Implementation Date:' to 'Start date of the project') and also correct the date currently stated as 22/05/2018.</p> |
| CAR-3<br>The certification pathway is to be corrected.                                                                                         | 1.10                                   | Project certification has been removed and corrected as "Impact Statements & Products". (Gold Standard Verified Emission Reductions (VERs).)                                                                                                                                                                                                                                    | <p>Review-3</p> <p>OK</p> <p>Closed</p>                                                                                                                                                                                     |
| CAR-4<br>The product requirements applied needs to be corrected to Gold Standard Verified Emission Reductions (VERs).                          | 1.12                                   | PDD has been revised accordingly.                                                                                                                                                                                                                                                                                                                                               | <p>Review-1</p> <p>OK</p> <p>Closed</p>                                                                                                                                                                                     |
| CAR-5<br>Please state the estimated amount for each of the SDGs (SDG 7, 8, 11 and 13) indicated.                                               | 1.15                                   | B.6.5 has been revised accordingly.                                                                                                                                                                                                                                                                                                                                             | <p>Review-1</p> <p>OK</p> <p>Closed</p>                                                                                                                                                                                     |
| CAR-6<br>a) Please state the tools referred in the methodology which have been applied. Also ensure that the most recent versions of the tools | B.1.2                                  | a) The versions' has been corrected accordingly.<br>b) References to Category D has been removed.                                                                                                                                                                                                                                                                               | <p>Review-1</p> <p>OK</p> <p>Closed</p>                                                                                                                                                                                     |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <p>are referred, Tool to calculate the emission factor for an electricity system latest version available is 7.0, Project emissions from flaring is version 3.0.</p> <p>b) Please remove the reference to Category D is to be removed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>CAR-7</p> <p>a) The applicability conditions as stated in the applied methodology ACM0001, version 19.0 and ACM0002, version 19 are referred and the associated justification is partially provided in the PDD.</p> <p>b) The applicability conditions in the tools referred to are to be indicated including Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period Version 03.0.1.</p> <p>c) Please provide the recent data about existing landfill sites, which is available in National Inventory Report at UNFCCC web site while applying the tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period.</p> <p>d) Under step 1.2 of the said tool, please assess the circumstances. and update the baseline information for the second crediting period accordingly.</p> | B.2.1                                  | <p>a) Applicability conditions have been revised in the PDD accordingly.</p> <p>b) Applicability conditions have been revised in the PDD accordingly.</p> <p><b>PP Response 2:</b> The heading of "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period" Applicability is added to the page 19 and steps from "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period Version 03.0.1" is followed under the heading.</p> <p>c)PDD has been revised accordingly.</p> <p><b>PP Response 2:</b> The list of SWDS which shows the first crediting period and second crediting period has been added on Page 20 through Turkish Greenhouse Gas Inventory 1990-2016 (April 2018)</p> <p>d)Applicability conditions have been revised in the PDD accordingly.</p> <p><b>PP Response 2:</b><br/>Step 1.2 is applied for the project activity and evaluated as conditions are not still valid. Baseline information is updated in the section related with Additionality.</p> | <p>Review-1</p> <p>a) OK Closed</p> <p>b) The step wise details following the tool 'Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period Version 03.0.1' has not been provided.</p> <p>c) Comment not addressed</p> <p>f) Comment not addressed</p> <p>Review-2</p> <p>b) The GWP of methane is to be corrected to 25 instead of 28.</p> <p>c) The assessment of the validity of the baseline based on recent data about landfill sites is unclear.</p> <p>d) The assessment for sub-step 1.2 is unclear.</p> |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                               |                                        | <p><b>PP Response 3:</b></p> <p>b) The GWP of methane has corrected to 25 instead of 28 in the PDD.</p> <p>c) Covered in step 1.2.</p> <p>e) Step 1.2 is revised.</p> <p><b>PP Response 4:</b> The SWDS has been determined through dry mass so dry percentages has been used through Emissions from solid waste disposal sites Version 08.0.</p> <p>"The IPCC Guidelines also specify DOC values on the basis of dry waste. Concentrations after complete removal of all moist wastes are not believed to be practical for this situation."</p> <p><b>PP Response 5:</b></p> <p>a) The capacity has changed and new values used according to "Samsun Avdan_Environmental and Technical Report" for the renewal crediting period. "Samsun Avdan_Environmental and Technical Report" has already provided to the GS and DOE.</p> <p>b) PDD has been revised and DOCj values are consistent in the PDD and ER sheet.</p> <p><b>PP Response 6:</b></p> <p>a) The calculations are re-checked and revised through wet waste type line with the first validation. It was a wrong determination calculation through dry waste type.</p> <p>b) Dry selection was wrong determination. It is corrected as wet waste type</p> <p>c) PDD has been revised in line with the registered PDD. "The</p> | <p>Review-3</p> <p>Although the above point has been addressed, however, the most recent version of the Methodological tool: Emissions from solid waste disposal sites Version 08.0 has not been applied in the PDD and the ER spreadsheet.</p> <p>Review-4</p> <p>a) Please clarify the difference in the values used as against the values presented in Table 13 of earlier registered PDD.</p> <p>b) PDD and ER sheet are not consistent with the stated DOCj values.</p> <p>Review-5</p> <p>a) The DOCj values for dry waste has been considered. However, please clarify that the annual waste dump is also in dry terms. If not, then the wet waste values should be used.</p> <p>b) Please also refer to the TOOL04 Methodological tool: Emissions from solid waste disposal sites,</p> |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                                                                                                                                            | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <p>CAR-8</p> <p>a) The justification of the project activity meeting the applicability condition of the methodology ACM0001 is to be further clarified.</p> <p>b) In the light of the increase in waste quantity being disposed at the landfill site, please elaborate further as to how the project does not reduce the amount of organic waste that would be recycled in the absence of the project activity.</p> <p>c) Please confirm that the management of the SWDS in the project activity is not deliberately</p> | <p>B.2.7</p>                           | <p>selection of appropriate kj values are made according to a "boreal and temperate" and "wet" climate."</p> <p>a) Justifications have been revised accordingly.</p> <p>b) The applicability condition has been revised in PDD.</p> <p><b>PP Response 2:</b> The sentence: "In Turkish waste management inventory there is no organic waste recycle facility at the reasonable proximity of the project." is added to the PDD as justification of the statement. (Page 14)</p> <p>c) In the feasibility report and municipal contracts, waste amounts are evident and monitored in methane, so there is not deliberately changed</p> | <p>Version 08.0, page 17: 'The IPCC Guidelines also specify DOC values on a dry waste basis, which are the concentrations after complete removal of all moist from the waste, which is not believed practical for this situation'.</p> <p>c) In the previous registered PDD, the selection of Kj values was made according to a "boreal and temperate" and "wet" climate, whereas in the revised PDD "dry" is considered with MAP/PET&lt;1. The PET value could not be located to confirm the same. Please clarify and/or correct accordingly.</p> <p>Review-1</p> <p>a) Ok Closed</p> <p>b) The justification for the said applicability clause is to be indicated in the PDD.</p> <p>c) Confirmation corresponding to para 5 of the methodology is to be indicated in the PDD.</p> |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                 | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <p>changed during the crediting in order to increase methane generation compared to the situation prior to the implementation of the project activity.</p>                                                                                                                                    |                                        | <p>during the crediting in order to increase methane generation compared to the situation prior to the implementation of the project activity.</p> <p><b>PP Response 2:</b> The related confirmation is added to the PDD under section "B.2. Applicability of methodology - ACM0001 Applicability".</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Review-2<br/>Ok<br/>Closed</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>CAR-9</p> <p>a) The emission sources in the project boundary for the purpose of calculating the project emissions are not in accordance with the methodology and are to be corrected.</p> <p>b) The emissions from flaring in case of project are not indicated in the tabular format.</p> | <p>B.3.1</p>                           | <p>a) Project boundary has been revised accordingly.</p> <p><b>PP Response 2:</b><br/>The sources which are not relevant has been removed on Page 20 and 21 of PDD.</p> <p>b) The emissions from flaring has been added.</p> <p><b>PP Response 2:</b><br/>"Emissions from the use of natural gas", CH4 is excluded. There had been a mistake, "Major emission source if supply of LFG through a natural gas distribution network, dedicated pipeline or using trucks is included in the project activity" is deleted from the table.</p> <p><b>PP Response 3:</b><br/>The collection and dumping of waste is outside of the project boundary and carried out by the municipality, so the CO2 for transportation is excluded. Electricity consumption of the project activity is included due to its significance.</p> | <p>Review-1</p> <p>a) The sources which are not relevant in the context of the project activity are to be excluded with indication of appropriate justification, such as emissions from heat generation, use of natural gas.</p> <p>b) The relevant sources of emissions for project activity are to be indicated and exclusion for others stated, such as LFG use in trucks.</p> <p>Review-2<br/>The inclusion of CO2 for transportation and exclusion of CO2 for electricity consumption due to the project activity is not clear.</p> <p>Review-3<br/>OK<br/>Closed</p> |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                    | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                  | Validation Team Conclusion                                                                                                                                                                                                                                                                     |
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| <p>CAR-10</p> <p>The spatial extent of the project boundary has not been indicated clearly in the context of application of ACM0002.</p>                                                                         | B.3.9                                  | <p>The spatial extend has been added electricity generation part was already established.</p> <p><b>PP Response 2:</b> Under section B.2 description has been revised as below;</p> <p>“For the proposed project activity, electricity is sourced and transmitted to the Turkish National grid. The difference is the net generation of the project activity.” Also, PDD has been revised accordingly.</p> | <p>Review-1</p> <p>Please clarify and correct the statement ‘For the proposed project activity, electricity will not be sourced from the grid or from power generation sources’, given that it is grid connected and there could be import/export.</p> <p>Review-2</p> <p>Ok</p> <p>Closed</p> |
| <p>CAR-11</p> <p>The justification for the GHG gases and sources in the context of ACM0002 are to be clearly presented corresponding to the project activity.</p>                                                | B.3.10                                 | <p>a) Project boundary has been revised accordingly.</p> <p><b>PP Response 2:</b></p> <p>In context of the ACM0002 the project emission is described for renewable power plant, geothermal or hydro power plant. For most renewable power plant project activity emissions are neglected. The PDD has been revised accordingly.</p>                                                                        | <p>Review-1</p> <p>The source of project activity emissions in the context of ACM0002 are not in accordance with the methodology.</p> <p>Review-2</p> <p>Ok</p> <p>Closed</p>                                                                                                                  |
| <p>CAR-12</p> <p>The PDD shall present the clear application of section 5.3 of the applied methodology, ‘Procedure for the selection of the most plausible baseline scenario and demonstrate additionality’.</p> | B.4.1                                  | <p>Section B.5 has been revised through “Procedure for the selection of the most plausible baseline scenario and demonstrate additionality”</p> <p><b>PP Response 2:</b></p> <p>Section 5.3 of the applied methodology is revised under the section B.4 and B.5.</p>                                                                                                                                       | <p>Review-1</p> <p>The baseline scenario in section B.4 is not presented clearly following the applied methodologies.</p> <p>Review-2</p>                                                                                                                                                      |

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## PROJECT NUMBER: 544

| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                                                                                   |         | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Validation Team Conclusion                                                                                                                                                                                                                                                                                                       |
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| CAR-13<br>The target and indicators for the SDG7, 8, 11 and 13 have been indicated in the submitted PDD. Please clarify how the project activity addresses SDG11, Target 11.6, Indicator 11.6.1, as the solid waste would be going to landfill site.                                                                                                                                                                                                            | B.6.1.1 |                                        | <p>B.6.1 has described through GS Requirements. Details are provided under B.6.2 as below;</p> <p>The project will collect the wastes regularly. During the first crediting period waste amount was 182,500 tonnes, corresponding to an average of 500 t/day. Waste amount estimated to be 304,466 tonnes, corresponding to an average of 800 t/day during the second crediting period.</p> <p><b>PP Response 2:</b></p> <p>Although without existence of the project, the waste would have been collected in wild collection sites and it would have caused environmental pollution, diseases and CH4 explosion hazards. The SDG11 is replaced with SDG13.</p>                  | <p>Ok</p> <p>Closed</p>                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Review-1</p> <p>Please clarify further, as to how the project results in increase in waste collection.</p> <p>Review-2</p> <p>Ok</p> <p>Closed</p>                                                                                                                                                                            |
| CAR-14<br>a) Please clarify the basis of arriving at the expected electricity generation of 54,600 MWh per annum by the project activity for SDG 7.<br>b) For SDG 8, please clarify and provide evidence to confirm that the employment generation between 20 to 25 is related to the project activity.<br>c) Please clarify how the project contributes to increase in solid waste collection, for SDG 11.<br>d) In context of SDG 13, the most recent version | B.6.2.1 |                                        | <p>a) The generation value based on Samsun Avdan Technical Feasibility Report. The reference has been added.</p> <p>b) SGK records have been provided to DOE. During the verification the SGK records will be checked.</p> <p>c) The project will collect the wastes regularly. During the first crediting period waste amount was 182,500 tonnes, corresponding to an average of 500 t/day. Waste amount estimated to be 304,466 tonnes, corresponding to an average of 800 t/day during the second crediting period.</p> <p><b>PP Response 2:</b> The SDG11 is replaced with SDG13, although the below statement is correct: "According to Turkish regulations and as seen</p> | <p>Review-1</p> <p>a) Ok Closed</p> <p>b) Ok Closed</p> <p>c) Please clarify further, the relationship with increased waste collection owing to the project activity.</p> <p>d) Ok Closed</p> <p>e) For BM the reference to 2016 and 2014-2016 is indicated. Besides that, the weights for OM and BM are stated incorrectly.</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                  |

\* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request



| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                         | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <p>of the 'Tool to calculate the emission factor of an electricity system' and 'Project emission from flaring' has not been applied.</p> <p>e) The most recent set of data available for grid emission factor calculation has not been referred. The submitted PDD presents grid data for the period 2012 – 2016.</p> |                                        | <p>Inventory report the SWDS are limited in Turkey. In 2017, the province established and operated a landfill site. The number is 59. It has an irregular distribution area number is 900. The project will collect the wastes regularly and will help the decrease irregular distribution areas in Turkey. Waste amount estimated to be 304,466 tonnes, corresponding to an average of 800 t/day. "</p> <p>d) The latest versions have been applied.</p> <p>e) The most recent values which belong to year 2017 have been used. PDD and excel sheet has been revised accordingly.</p> <p><b>PP Response 2:</b> It has been revised accordingly in the PDD and excel sheet.</p> <p><b>PP Response 3:</b></p> <ul style="list-style-type: none"> <li>• The excel sheet is updated.</li> <li>• The efficiency worksheet is updated according to the tool: <a href="https://cdn.unfccc.int/methodologies/PAmethodologies/tools/lam-tool-09-v2.0.pdf">https://cdn.unfccc.int/methodologies/PAmethodologies/tools/lam-tool-09-v2.0.pdf</a></li> <li>• The relevant part of the PDD is revised as:<br/>           "According to the "Tool to calculate the emission factor for an electricity system" (version 07.0.0), the default weights for the operating margin and build margin emission factors for landfill gas power plant generation is defined as:<br/>           WOM=0.25<br/>           WBM=0.75<br/>           for the second and third crediting period."</li> </ul> | <p>Review-2</p> <ul style="list-style-type: none"> <li>• The excel sheet is not transparently presenting the calculations as the cells are not linked and the file refers to other files.</li> <li>• The efficiency values have not been sourced from Table 2, Appendix of TOOL09: "Determining the baseline efficiency of thermal or electric energy generation systems".</li> <li>• The weight of OM and BM applied are incorrect and indicated to correspond to wind power project (page 55 of 187). As per the grid emission factor tool, for this type of project WOM = 0.25 and WBM = 0.75 for the second and third crediting period.</li> </ul> <p>Review-3</p> <p>The 'Methane Production' sheet and 'ER calculation' sheet still refers to some external file and the values of BfElectricity are not matching with the computation depicted in 'Combine Margin Ef' sheet. Also, the text '* The</p> |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team  | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| CAR-15<br>a) The section B.6.3 of the PDD presenting the data and parameters fixed ex ante for | B.6.3.1                                | <p><b>PP response 4:</b> The 'Methane Production' sheet and 'ER calculation' sheet refers have been revised accordingly and the values of BEelectricity are matching with the computation depicted in 'Combine Margin EF' sheet now.</p> <p>* The estimated starting date of the fixed crediting period is 01 April 2019' sentence has been removed from excel sheet. The 'Parameters' sheet refers have been revised correct version of the Methodological tool: Emissions from solid waste disposal sites, version 08.0 instead of Version 06.</p> <p>The SWDS has been determined through dry mass so dry percentages has been used through Emissions from solid waste disposal sites Version 08.0.</p> <p>"The IPCC Guidelines also specify DOC values on the basis of dry waste. Concentrations after complete removal of all moist wastes are not believed to be practical for this situation." Everything is the same for second crediting period so we can continue to use the dry values of DOCj. Unfortunately nobody has previous ER spreadsheet.</p> <p>The relevance of 'BE Grid' sheet has included the reference of the related values and DOE(Anil Söyler has seen this report which is Turkish and confirmed these values during the on site visit). Furthermore, the computed grid EF value have been already rounded up as conservative. In 'BM Calculation' sheet the efficiency of NG based units cell U15 has revised as 0.62 instead of 0.60.</p> | <p>estimated starting date of the fixed crediting period is 01 April 2019' is to be corrected/removed.</p> <p>The 'Parameters' sheet refers to older version of the Methodological tool: Emissions from solid waste disposal sites, version 6 instead of Version 08.0. Also, clarify the basis of taking the dry values of DOCj instead of the default wet values. Please also submit the previous (earlier registered) ER spreadsheet.</p> <p>Further, the relevance of 'BE Grid' sheet is not clear. Furthermore, the computed grid EF value is not to be rounded up as not conservative.</p> <p>In 'BM Calculation' sheet the efficiency of NG based units cell U15 is taken as 0.6 instead of 0.62.</p> <p>Review-4<br/>Ok<br/>Closed</p> |
| a) The section B.6.3 of the PDD presenting the data and parameters fixed ex ante for           |                                        | <p>a) Section B.6.3 has been revised accordingly. The tables are removed to related SDGs.</p> <p>b) Type of mistake has been corrected</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Review-1<br/>The comment has not been addressed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                  | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <p>monitoring contribution to each of the relevant SDGs has not been correctly populated.</p> <p>b) The GWP of methane is wrongly cited along with its associated to SDG 11.</p> <p>c) The parameters which are to be monitored during the crediting period and not fixed ex ante are not to be included in section B.6.3.</p> |                                        | <p>c) The parameters which are to be monitored during the crediting period has been removed.</p> <p><b>PP Response 2:</b></p> <p>a) Please see Section B.6.3 all parameters are ex ante and line with methodology.</p> <p>b) GWP has been revised through IPCC Fifth Assessment Report 2015 (AR5) and still related to SDG 11.</p> <p>c) Please see Section B.6.3 all parameters are ex ante and line with methodology.</p> <p><b>PP Response 3:</b></p> <ul style="list-style-type: none"> <li>The GWP<sub>CH<sub>4</sub></sub> has updated as 25 instead of 28. WX, .Parameter description and values applied has been revised through the excel sheet and mass of SWS.</li> <li>GS had requested in the former projects, the relevant SDG indicator to be stated as currently written in the PDD.</li> <li>Specflare Description has been revised as below;</li> </ul> <p>Manufacturer's flare specifications for temperature, flow rate and maintenance schedule The Specflare (Temperature, flow eaare or heat flux and maintenance schedule) will be monitored through Flow Meter 2</p> <p>Flow meter 2 details are also added to PDD.</p> <ul style="list-style-type: none"> <li>It is stated that the efficiency data were previously taken from the tool:</li> </ul> <p><a href="https://cdm.unfccc.int/methodologies/Pamethodologies/tools/am-tool-07-v7.0.pdf">https://cdm.unfccc.int/methodologies/Pamethodologies/tools/am-tool-07-v7.0.pdf</a></p> | <p>Review-2</p> <ul style="list-style-type: none"> <li>The parameters (WX, GWP<sub>CH<sub>4</sub></sub>), description and values are to be corrected.</li> <li>The relevant SDG indicator is to be corrected (just stating the number) and purpose of data may be corrected, just to state the calculation of baseline or project emissions, as the case may be.</li> <li>The flare details are not mentioned for the parameter Specflare.</li> <li>The reference to the tool (Source of data) for the parameter <math>\eta_{m,y}</math> and the values are to be corrected.</li> </ul> <p>Review-3</p> <p>OK</p> <p>Closed</p> |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                              | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                                                                                                                                            |                                        | <p>The reference is updated as <a href="https://cdm.unfccc.int/methodologies/Pamethodologies/tools/am-tool-09-v2.0.pdf">https://cdm.unfccc.int/methodologies/Pamethodologies/tools/am-tool-09-v2.0.pdf</a></p> <ul style="list-style-type: none"> <li>The efficiency values are still valid according to new reference so Table 18 (page 79/156) is not changed.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>CAR-16</p> <p>The section B.6.4 of the PDD presenting the ex-ante estimation of outcomes linked to each of the SDGs has not been clearly populated.</p> | <p>B.6.4.1</p>                         | <p>Section B.6.4 has been revised.</p> <p><b>PP Response 2:</b></p> <ol style="list-style-type: none"> <li>OM calculation is revised as 2015 – 2017 throughout the PDD.</li> <li>It has been revised accordingly in the PDD.</li> <li>It has been added as Appendix 3 in the PDD.</li> <li>The file is updated accordingly.</li> <li>It has been revised accordingly in the PDD and excel sheet.</li> </ol> <p><b>PP Response 3:</b></p> <p>The PDD and excel spreadsheet has been revised accordingly.</p> <p><b>PP Response 4:</b></p> <p>The spreadsheet and PDD are consistent now. The ER spreadsheet corresponding to the first crediting period is not available because of the GS registry and consultant firm changes. (Project owner does not have these kind of files but there are no changes in the way of</p> | <p>Review-1</p> <ol style="list-style-type: none"> <li>Comment has not been fully PDD still states for OM 'the years 2014, 2015 and 2016' instead of 2015 – 2017.</li> <li>The OM value is presented differently.</li> <li>The long list in Table 16 may be annexed or referred to the spreadsheet.</li> <li>For BM, the total capacity considered is indicated to be from Dec 2016 (in the BM calculation spreadsheet).</li> <li>The weights considered for OM and BM are incorrect, as per the tool WOM = 0.25 and WBM = 0.75 for the second and third crediting period is to be used.</li> </ol> <p>Review-2:</p> |

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## PROJECT NUMBER: 544



| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                                                                                               |                                        | <p>methane emission calculations. The DOE has already confirmed this during the on site visit.</p> <p><b>PP Response 5:</b></p> <p>The new values used according to new reports which have been already provided to the DOE and checked them during the on site visit. And the PDD has been revised accordingly and PDD and ER sheet are consistent now.</p> <p><b>PP Response 6:</b></p> <p>CAR 7 has been revised accordingly. Also PDD and ER sheet has been revised accordingly.</p> | <p>The comment has not been addressed correctly. Please present a transparent corrected spreadsheet and consistent updated values in the PDD, taking into account previous open issues.</p> <p><b>Review-3</b></p> <p>The spreadsheet is to be corrected and consistent numbers are to be presented in the PDD.</p> <p>Please also submit the ER spreadsheet corresponding to the first crediting period, as there appears to be some changes in the way methane emissions are calculated.</p> <p><b>Review-4</b></p> <p>Please clarify the differences between the parameters used in the previously registered PDD and the revised PDD. Besides that, the consistency in PDD and ER sheet is to be maintained.</p> <p><b>Review-5</b></p> <p>Please refer to CAR-7, review-5.</p> |
| CAR-17<br>The relevant equations for project emissions along                                  | B.6.4.1.1                              | Project emission equation has been provided through tool. Project emission from flaring estimated as 0 tCO <sub>2</sub> e.                                                                                                                                                                                                                                                                                                                                                               | <p><b>Review-1</b></p> <p>Ok</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                       | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| with associated justification are to be clearly indicated in section B.6.4 of the PDD.                                                                                                                                                                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Closed                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>CAR-18</p> <p>a) The dataset used to compute the grid emission factor for SDG 13 should correspond to the most recent dataset available.</p> <p>b) Please provide clear evidence and justification on the use of lower efficiency values of 39% for coal and lignite.</p> <p>c) Please submit the spreadsheet depicting the calculation of the grid emission factor along with source files.</p> | B.6.4.1.2                              | <p>a) The most recent data has been used and the related parts of the PDD have been revised accordingly.</p> <p>b) During emission factor calculations the highest values (50% and 50% respectively for coal and lignite) are used. The efficiency values worksheet is revised accordingly.</p> <p>c) The EF calculation in the PDD and excel sheet has been revised accordingly.</p> <p>PP response 2: he EF calculation in the PDD and excel sheet has been revised accordingly.</p> <p><b>PP response 3:</b></p> <p>Unfortunately there is no available data showing the electricity productions of the each power plant which are included in the BM Set. So as GS Management Board decision allows at the lack of these data, we are using capacity of the power plants which are MWe based. The formula used has both MWe at the numerator and the denominator. With multiplication of the both numerator and denominator by 365*24h, we can get the MWh value if all power plants works full capacity during the whole year. As a result of multiplication of 365*24h we get MWh but 365*24h will cancel out because are both at the numerator and denominator. Finally we will get the same result. Briefly, GS technical team has approved this approach for other GS projects as well.</p> <p>And you and Anil Soyler have already confirmed during the Renoe Acipayam Solar Power Plant.(GS6289) as below explanation:<br/>         “ For BM calculation corresponding to year 2016, the sample group</p> | <p>Review-1</p> <p>a) Ok Closed</p> <p>b) Ok Closed</p> <p>c) The grid EF is to be corrected.</p> <p>Review-2</p> <p>The grid EF is to be corrected. Besides that, for BM, 20% of the net generation (MWh) is to be taken instead of the capacity in MW.</p> <p>Review-3</p> <p>The BM still refers to capacity instead of net generation. Please clarify and correct accordingly addressing the previous comment.</p> <p>Review-4</p> <p>Ok</p> <p>Closed</p> |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                     | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                 | Validation Team Conclusion                                 |
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| CAR-19<br>The reference to the applied methodology and associated version in context of leakage is not stated correctly.                                          | B.6.4.1.3                              | Corrected as "No leakage effects need to be accounted under the approved consolidated methodology ACM0001, version 19.0."                 | Review-1<br>OK<br>Closed                                   |
| CAR-20<br>The net electricity exported to the grid system during the year y is inconsistently stated as 208,067MWh/annum. Please clarify and correct accordingly. | B.6.4.10                               | Corrected as "EGy = the net electricity exported to the grid system during the year y (54,600MWh/annum) " Page 81 of PDD.                 | Review-1<br>OK<br>Closed                                   |
| CAR-21<br>The sample calculation in context of application of 'Emissions from solid waste disposal sites' version 08 has not been provided.                       | B.6.4.18                               | Baseline section has been revised accordingly.<br><b>PP response 2:</b> It has been already included in the PDD.<br><b>PP response 3:</b> | Review-1<br>The sample calculation has not been presented. |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                                          | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <p>CAR-22</p> <p>a) The section B.6.5 of the PDD presenting the summary of ex-ante estimates of SDG outcomes linked to each of the SDGs has not been correctly populated.</p> <p>b) The years are to be corrected.</p> <p>c) The unit for SDG7 is incorrectly stated as MW.</p> <p>d) The impact of the project on SDG 11 is unclear.</p> <p>e) For SDG13, the tabular presentation needs to be further clarified.</p> | <p>B.6.5.1</p>                         | <p>Under baseline section also ACM0001 Version 19.0 has been referred.</p> <p>The methodology directs to "Emissions from solid waste disposal sites" version 08.0 for baseline calculations.</p> <p>a) Section B.6.5 has been revised.</p> <p>b) Revised as June 2019. And the other years are correct.</p> <p>c) Revised as MWh</p> <p>d) The impact of the project on SDG 11 is line with the GS4GG rules.</p> <p>e) Equations details have been added.</p> <p><b>PP response 2:</b> a) It has been revised accordingly in the PDD.</p> <p>b) We expect that 1.06.2019 is estimation date for the starting date of second crediting period.</p> <p>c) It has been revised accordingly in the PDD.</p> <p>d) Without existence of the project, the waste would have been collected in wild collection sites and it would have caused environmental pollution, diseases and CH4 explosion hazards. (SDG 11.6.1)</p> <p>e) Equations details have been revised accordingly.</p> <p><b>PP Response 3:</b></p> <p>The PDD has been revised accordingly.</p> <p><b>PP Response 4:</b></p> | <p>Review-2</p> <p>The comment has not been addressed. The baseline emissions refer to ACM0002 part only.</p> <p>Review-3</p> <p>OK</p> <p>Closed</p> <p>Review-1</p> <p>a) Please check and correct the use of decimal and comma (in the tables).</p> <p>b) The years are to be corrected</p> <p>c) Please check and correct the use of decimal and comma.</p> <p>d) Please provide further clarification.</p> <p>e) The numbers are to be corrected.</p> <p>Review-2</p> <p>The comment has not been addressed, in particular for SDG7 and the values to be revised for SDG13.</p> <p>Review-3</p> <p>The numbers are to be corrected following revisions in the spreadsheet.</p> <p>Review-4</p> |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <p>CAR-23</p> <p>a) Please provide the details of the monitoring equipment, i.e. electricity metering devices, gas analyzer, etc.</p> <p>b) Please include a summary of requirements for calibration in accordance with the manufacturer's specifications in the PDD.</p> <p>c) For net electricity supplied to the grid, reference to TEDAS meters is stated.</p> <p>d) The meter serial numbers are stated as 00436731 and 00436730. During the site visit, the meter numbers were found to be 65001340 and 00436730 for the main and back-up meter respectively. Please clarify if there has been any change in the meter(s) and correct the PDD accordingly.</p> <p>e) Instead of reference to SDG11 indicator, the SDG13 indicator should be applied.</p> <p>f) The use of orifice plate technology flow meter for 'Mass flow of methane in the residual gas in the minute m' is not appropriate. It is stated that 'This parameter is calculated by</p> | <p>B.7.1.1</p>                         | <p>The PDD has been revised accordingly</p> <p><b>PP Response 5:</b></p> <p>The PDD and ER calculation excel sheet are consistent now.</p> <p>a) Meters details have been provided to DOE.</p> <p>b) Calibration period in accordance with the manufacturer's specifications and national regulations.</p> <p>c) According to regulations the meters responsible is YEDAS in Turkey. (<a href="http://www.resmigazete.gov.tr/eskiler/2013/03/20130330-14.htm">http://www.resmigazete.gov.tr/eskiler/2013/03/20130330-14.htm</a> )</p> <p>d) The meters serial numbers has been revised accordingly.</p> <p>e) The parameters are re-checked. Indicators are related with the previous determination.</p> <p>f) The mistake has been corrected as Flow meter.</p> <p>g) T emperature of the gaseous stream is located and measured before the gas engine</p> | <p>Please provide the consistency between PDD and ER calculation sheet.</p> <p>Review-5<br/>OK</p> <p>Closed</p> <p>Review-1</p> <p>a) Ok Closed</p> <p>b) Ok Closed</p> <p>c) Ok Closed</p> <p>d) Ok Closed</p> <p>e) The reference to SDG 11 instead of SDG 13 is incorrect.</p> <p>f) Ok Closed</p> <p>g) Ok Closed</p> <p>h) Ok Closed</p> <p>i) Ok Closed</p> <p>j) Ok Closed</p> <p>k) Please clarify CFEM in context of the applied methodology/tool.</p> <p>Review-2</p> <p>The calculated parameter ERY and CAPEX &amp; OPEX should be removed from the tables presented in the section. Further, just the SDG</p> |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Validation Team Conclusion                                                                                                           |
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| <p>multiplying LFGflare, density of methane and WCH4 (percentage of methane measured by the gas analyzer). Different tables for the measured and monitored parameters are to be presented instead of calculated values.</p> <p>g) It is unclear about the location of the measurement for 'Temperature of the gaseous stream'.</p> <p>h) Please confirm that the temperature of the gaseous stream is in compliance with the requirements of dry basis used to calculate the mass flow of GHG in the gaseous stream.</p> <p>i) Please clarify about the number and type of equipment for monitoring 'Operational hours of the power plant'.</p> <p>j) The value for the parameter 'AF' has not been indicated.</p> <p>k) The basis of the parameter 'CFEM' is unclear.</p> | B.7.3.1                                | <p>h) The temperature of the landfill gas to be below 60 °C. Related excel sample document has been provided to the DOE. And also DOE has checked this document during the site visit.</p> <p>i) Three genset has been used for monitoring "Operational hours of the power plant". Feasibility report has been provided to DOE.</p> <p>j)AF is written wrong. Removed from the prameters.</p> <p>k) The measurement is made and recorded continuously. Range limit is - /+ 6 kPa and span limit is 0.1/6 kPa as below photo.</p>  <p><b>PP Response 2:</b> CFEM parameter has been removed. As requested it is not related to methodology.</p> <p><b>PP response 3:</b> SDG indicator number have been stated in the B.7.1 section of the PDD.</p> <p><b>PP response 4:</b> The calculated parameter ERY and CAPEX &amp; OPEX should have been added in the section because of Gold Standard required. It can be seen in the review of Design Change which has been provided to the DOE.</p> | <p>indicator number may be stated.</p> <p>Review-3<br/>The above point has not been addressed.</p> <p>Review-4<br/>Ok<br/>Closed</p> |
| CAR-24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | B.7.3.1                                | <p>a) Details has been provided under section B.7.3.</p> <p>b) The table has detailed accordingly.</p> <p>c) YEDAŞ is the electricity distribution company in Turkey. After the</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>Review-1</p> <p>a) Ok Closed</p> <p>b) Comment not addressed, methane</p>                                                         |

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| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Validation Team Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <p>including the operational and management structure, roles and responsibilities and institutional arrangements for data collection and archiving has not been completely provided.</p> <p>b) The reference to the table in the section with methane fraction being measured by flow meter is unclear.</p> <p>c) The description is mostly in context of electricity generation, referring to YEDAS. Please check and clarify the relationship of YEDAS and EMRA as against TIEAS and PMUM stated in the earlier registered PDD.</p> <p>d) Please include the details in context of LFG monitoring.</p> |                                        | <p>privatization TIEAS responsibilities pass to private companies in Turkey.</p> <p>d) Details has been provided under section B.7.3.</p> <p><b>PP Response 2:</b><br/>It has been corrected as Gas analyser.</p> <p><b>PP Response 3:</b><br/>The biogas related parameters has been included in section B.7.3 of the PDD.</p> <p><b>PP Response 4:</b><br/>The mistake has been corrected as Flow meter 3.</p> <p><b>PP Response 5:</b><br/>The related parameter is changed as <math>LFG_{electricity,y,biogas}</math> and <math>LFG_{electricity,y,landfill}</math> in the PDD.</p> | <p>fraction measurement should be through gas analyser.</p> <p>c) Ok Closed<br/>d) Ok Closed</p> <p>Review-2<br/>The biogas related parameters are not included in section B.7.3.</p> <p>Review-3<br/>The parameter and measurement device are stated incorrectly for biogas in the table presented.</p> <p>Review-4<br/>The parameter is still the same as <math>LFG_{electricity,y}</math> as in previous submission.</p> <p>Review-5<br/>Ok<br/>Closed</p> |
| <p>CAR-25</p> <p>The end date of the initial crediting period is 08/02/2018. As outlined in GS Annex Z, application for renewal of crediting period is to be submitted to Gold Standard within one year after the end of previous crediting period. Please provide</p>                                                                                                                                                                                                                                                                                                                                   | C.2.1.1                                | <p>On 10/12/2018 application was applied to GS. On 17 January 2019 the conditions have been accepted by GS. On 17 March 2019, the interview was made with Sustaincert. Sustaincert accepted the conditions on March 19, 2019. The e-mails have been provided to DOE</p> <p><b>PP Response 2:</b> Thank you. PP and GS know these details.</p>                                                                                                                                                                                                                                           | <p>Review-1</p> <p>The crediting period renewal would be 09/02/2018. However, no credits could be claimed till the final validation report is submitted to GS.</p>                                                                                                                                                                                                                                                                                            |

\* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

## PROJECT NUMBER: 544

| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team       | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Validation Team Conclusion                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| communication if any with GS regarding prior approved exception in this case for the delay.         |                                        | <b>PP Response 3:</b> <ul style="list-style-type: none"> <li>On 10/12/2018 application was applied to GS. (the related provided e-mail subject is "First mail to GS_1")</li> <li>On 17 January 2019 the conditions of the project as force majeure have been accepted by GS. (the related provided e-mail subject is "Force Majeure Acception Mail by GS_2")</li> <li>The interview was made with Sustaincert. Sustaincert accepted the conditions on March 19, 2019. (the related provided e-mail subject is "Acception Mail by Sustaincert_3")</li> <li>The related dates for CP2 and design change approved by GS on 28 March 2019. (the related provided e-mail subject is "Dates Clarification Mail_4")</li> </ul> | Review-2<br>The date is to be corrected.<br><br>Review-3<br>OK<br>Closed                                                                                                                                      |
| CAR-26<br>Please provide the update on the submission of design change request to GS on 15/03/2019. | Appendix-2, 1                          | <p>The documents has been uploaded on 01.04.2019 and GS design change review has been provided on 02.05.2019 and will be completed on 12.05.2019 .</p> <p><b>PP Response 2:</b> We are waiting the second response of GS related with design change.</p> <p><b>PP Response 3:</b><br/>We have received the second response of GS for design change. And we will send our second response on 16<sup>th</sup> of June.</p>                                                                                                                                                                                                                                                                                                | Review-1<br>The details are to be corrected as per earlier comments. Alternatively, the second para from the section could be removed.<br><br>Review-2<br>Comment still open.<br><br>Review-3<br>OK<br>Closed |
| CL-1                                                                                                | A.8.2                                  | The Project will not limit women's ability regarding natural resources.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Review-1                                                                                                                                                                                                      |

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## PROJECT NUMBER: 544



| Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team                                                                                                                         | Ref. to Checklist Questions in Table-1 | Summary of Project Participants' Response                                                                                                                                               | Validation Team Conclusion |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| It is stated that 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. Please submit evidence to confirm the same. |                                        | The project landfill gas project thus does not have any major impact on natural resources of the region. The DOE has already interviewed the ladies in the field during the site visit. | Ok<br>Closed               |

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