
VERIFICATION AND CERTIFICATION REPORT

Zeynep Enerji Üretim San. ve Tic. A.Ş.

CEMEL HYDRO BUNDLE

IN

Turkey

MONITORING PERIOD: 1st Monitoring Period
From 01/07/2015 to 28/02/2017 (both days included)

Organizational Unit:	Re Carbon Ltd. Carbon Department		
Project Title:	Cemel Hydro Bundle		
Project Number:	Client:	Current MR Version:	
437	Zeynep Enerji Üretim San. ve Tic. A.Ş.	06	
Date of First Issue:	Date of Current Version:	Version Number:	Number of Pages:
02/06/2017	02/01/2018	03	66
Verification Number:	Registration Number:	Monitoring Period:	
01	GS1208	From: 01/07/2015	To: 28/02/2017
Summary:			
Host Country: Turkey			
Project is Reviewed Against:			
☒ Kyoto Protocol ☒ UNFCCC CDM rules and regulations and associated documents ☒ Gold Standard rules and regulations ☐ Other (Please Specify)			
Methodology: ACM0002 Version: 12.3.0			
Verified Emissions Reductions: 61,936 tCO ₂ e			
(01/07/2015 to 31/12/2015: 15,465 tCO ₂ e; 2016: 38,665 tCO ₂ e; 01/01/2017 to 28/02/2017: 7,806 tCO ₂ e)			
Project Size: ☒ Large Scale ☐ Small Scale ☐ Micro Scale			
Project Participants:	Zeynep Enerji Üretim San. ve Tic. A.Ş., GTE Carbon Inc.		
Verification Stages:			
☒ Desk Review ☒ Site Visit ☒ Follow-up Interviews ☒ Resolution of Outstanding Issues			
Verification Findings:			
During the verification 14 Corrective Action Requests, 03 Clarification Requests were issued, all of which were closed out before the issuance of this verification report. There hasn't been any Forward Action Request issued during the verification. In summary, it is Re Carbon's opinion that the project activity "Cemel Hydro Bundle" in Turkey, is in compliance with the monitoring plan described in the registered PDD, version 09 dated 07/04/2014 and GS-Passport, version 07 dated 11/03/2014. The GHG emission reductions are calculated correctly as per the applied methodology and the emission reductions given in the monitoring report version 06 dated 21/12/2017 are fairly stated.			
Verification Team Leader:	Sandeep Kanda	Indexing Terms:	
Verification Team Members:	Göknıl Tüfeközdemir Anıl Söyler	☐ No distribution without permission of the client or responsible organizational unit	
Approved By (Technical Reviewer):	Name: Sukanta Das	Signature: 	☐ Limited Distribution ☐ Unrestricted Distribution

Abbreviations

CAR	: Corrective Action Request
CDM	: Clean Development Mechanism
CEF	: Carbon Emission Factor
CER	: Certified Emission Reduction(s)
CL	: Clarification request
CO₂	: Carbon dioxide
CO₂e	: Carbon dioxide equivalent
DNA	: Designated National Authority
DOE	: Designated Operational Entity
DR	: Document Review
EF	: Emission Factor
ER	: Emission Reductions
ERPA	: Emission Reduction Purchase Agreement
FAR	: Forward Action Request
GHG	: Greenhouse gas(es)
GS	: Gold Standard
GWP	: Global Warming Potential
I	: Interview
IPCC	: Intergovernmental Panel on Climate Change
kWh	: Kilo Watt Hour
MP	: Monitoring Plan
MoV	: Means of Verification
MW	: Mega Watt
MWh	: Mega Watt Hour
NGO	: Non-governmental Organisation
ODA	: Official Development Assistance
PDD	: Project Design Document
PP	: Project Participant(s)
tCO₂e	: Tonnes of CO ₂ equivalents
UNFCCC	: United Nations Framework Convention on Climate Change

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1. EXECUTIVE SUMMARY– VERIFICATION AND CERTIFICATION OPINION

Re Carbon Ltd. has performed the first periodic verification of the “Cemel Hydro Bundle” which is a Gold Standard project with the registry reference number “GS1208” for the period between 01/07/2015 and 28/02/2017. The scope of the activities covers the verification and certification of GHG emissions reductions reported in Monitoring Report Version 06 dated 21/12/2017 of “Cemel Hydro Bundle”.

Re Carbon Ltd. hereby confirms that the project activity “Cemel Hydro Bundle” in Turkey, is implemented in accordance with the validated and registered PDD, version 09 dated 07/04/2014 and GS-Passport, version 07 dated 11/03/2014. The monitoring system is in place and the emission reductions are calculated without material misstatements as per the applied approved methodology, which is ACM0002 Version 12.3.0.

Re Carbon confirms the following based on the results of document review and on-site assessment:

The implementation of the project has resulted in 61,936 tCO₂e during the monitoring period 01/07/2015 up to 28/02/2017.

2. INTRODUCTION

2.1. Objective

Re Carbon Ltd. has been appointed by “Zeynep Enerji Üretim San. ve Tic. A.Ş.” to perform the first periodic verification of the “Cemel Hydro Bundle” with the contract dated 13/04/2017. The objective of this verification activity is to assess, with objective evidence:

- if the monitoring report dated “21/12/2017” conforms with the requirements of the monitoring plan of the registered PDD and the approved methodology
- if the project activity conforms with the monitoring report and the registered PDD, and
- if the data reported in the monitoring report are complete and transparent.

2.2. Scope

The scope of the verification is the independent and objective review of the monitored GHG reductions. The verification activity is based on the validated and registered PDD, version 09 dated 07/04/2014 and GS-Passport, version 07 dated 11/03/2014.

The project activity and the monitoring report are assessed against the requirements of the Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, “ACM0002 version 12.3.0”, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, according to the guidance given in the CDM Validation and Verification Standard version 9.0, CDM Project Standard version 9.0, CDM Project Cycle Procedure version 9.0, Gold Standard (GS) Toolkit version 2.2 and other relevant GS requirements.

The only purpose of the verification and certification is its usage during the issuance process as part of the GS project cycle. Therefore, Re Carbon can’t be held liable by any party for decisions made or not made based on the verification and certification opinion, which will go beyond that purpose.

2.3. Description of the Project Activity

The Cemel Hydro Bundle is a run-of-river type project located on Kızılırmak River within the boundaries of Avanos District of Nevşehir Province. The purpose of this project is to generate electricity by using the existing water without diversion of water. The project consists of three cascade projects, each having its own turbines and generators to generate electricity for the Turkish grid. This bundled project is composed of 6.567 MWe Cemel I HEPP, 7.055 MWe Cemel II HEPP and Cemel III HEPP¹, 6 MWe on the mid-section of Kızılırmak River basin. The project has a capacity of 21.6 MW_m and 20.4 MW_e with annual expected generation of 73.95 GWh/y. The average net annual generation during the current monitoring period was 68.692 GWh and total 61,936 tCO₂ tCO₂e emission reduction has been achieved by the project.

¹ Equipment Agreement

The crediting period start date of the project has been changed to 01/07/2015, as the actual commissioning of Cemel-III was on 03/07/2015 as against the anticipated commissioning of 01/09/2015 with choice of renewable crediting period. This has been verified from the site visit and information provided by registered PDD and Validation Report.

2.4. Parties Involved

Zeynep Enerji Üretim San. ve Tic. A.Ş. is the project owner and Global Tan Energy (GTE Carbon Inc.) the Project Developer. The host country is Turkey.

2.5. Verification Period Covered

This is the 1st verification period from 01/07/2015 to 28/02/2017 (both days included).

3. METHODOLOGY

The verification of this GS project activity includes the following steps:

- Assessment of the conformity of the actual project activity and its operation with the registered PDD, version 09 dated 07/04/2014 and GS-Passport, version 07 dated 11/03/2014.
- A site visit was conducted on 08/06/2017 to assess that all physical features of the project activity proposed in the registered PDD are in place and that the project participants has operated the project activity as per the registered PDD.
- Assessment of the compliance of the monitoring plan with the monitoring methodology ACM0002.
- Assessment of the compliance of monitoring with the monitoring plan
- Assessment of data and calculation of greenhouse gas emission reductions
- Issuance of the verification report
- Independent technical review
- Approval of the verification report and request of issuance

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

The Verification Protocol consists of three tables:

- Table 1 (Monitoring Report and CDM verification requirements)
- Table 2 (Additional Gold Standard (GS) requirements) and
- Table 3 (Resolution of Corrective Action, Forward Action and Clarification Requests)

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

Table 3-1: Explanation about Table-1 in Verification Protocol

Question	Reference	MoV*	Findings, comments, references and document sources	Draft & Final Conclusion
The requirements related with the monitoring report and verification	Gives reference to the legislation or documents where the relevant requirement is found	Explains how conformance with question is investigated. Examples of means of verification 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 next periodic verification

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

Table 3-2: Explanation about Table-2 in Verification Protocol

Question	Reference	MoV*	Findings, comments, references and document sources	Draft & Final Conclusion
The additional requirements related with Gold Standard	Gives reference to the legislation or documents where the relevant requirement is found	Explains how conformance with question is investigated. Examples of means of verification 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 next periodic verification

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

Table 3-3: Explanation about Table-3 in Verification Protocol

Draft Report Clarifications, Forward Action and Corrective Action Requests by Verification Team	Ref. to Questions in Table-1 and Table-2	Summary of Project Participants' Response	Verification Team Conclusion
The all CL, FAR and CARs determined during the draft verification report should be listed here	Gives reference to the checklist questions in Table-1 of Verification Protocol	Is used to summarize the responses by project participants regarding the non-conformities	Is used to summarize the responses by verification and their conclusions

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

3.1. Verification Team and ITR Selection

The appointment process of the verification team takes into account the technical area(s), sectoral scope(s), and relevant host country experience required amongst team members for the verification of the emission reductions achieved by the project activity in the relevant monitoring period for this verification. The relevant GS verification and previous ITR experiences are also assessed during the selection of the team members and Independent Technical Reviewer (ITR), respectively. The verification team and ITR are assigned to this

verification activity on 01/03/2017 taking all the above factors into consideration and as a result of the contract review process.

The verification team and ITR details are given in Table 3-4 below:

Table 3-4: Verification team and ITR details

Name	Role	Host Country Experience	Scope Coverage	Technical Expertise	Involvement *
Sandeep Kanda	Team Leader	☒	☒	☒	DR, R
Göknıl Tüfeközdemir	Trainee Verifier	☒	☒	☒	SV, R
Anıl Söyler	Certification Manager	☒	☒	☒	A, DR
Sukanta Das	ITR	☒	☒	☒	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 Documents

The basis for the verification activity is the monitoring report version 01, dated 02/06/2017 which was submitted to the verification team on 02/06/2017. This monitoring report was revised several times due to the issued CARs and CLs, version 06 dated 21/12/2017 being the final version. The monitoring report and the monitoring activities were assessed against the registered PDD, version 09 dated 07/04/2014 and GS-Passport, version 07 dated 11/03/2014, the methodology ACM0002, version 12.3.0, the relevant CDM rules and regulations, CDM Validation and Verification Standard version 9.0, Gold Standard Toolkit version 2.2 and final validation report of RINA, version 1.4Aa, dated 23/04/2014.

The following actions were involved in the desk review:

- A review of the data and information presented to verify their completeness
- A review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions

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

3.3. On-Site Visits

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

Table 3-5: Site visit details

Date	08/06/2017	
Location	Avanos / Nevşehir	
Participant	Company Name	Role in the Organization / Role in the Site Visit
Faruk ÖZKAHRAMAN	Zeynep Enerji Üretim San. ve Tic. A.Ş.	Control Operator
Cuma ÇELİK	Zeynep Enerji Üretim San. ve Tic. A.Ş.	Operator
Gökhan BALTA	BMM Ltd.	Operation Technician
İlker ORDU	Zeynep Enerji Üretim San. ve Tic. A.Ş.	Operator
Ali Rıza NAR	Avanos District	Local People
Ekrem ZEYBEK	Avanos District	Local People
Salim DÖLEK	Büyük Ayhan Village	Villager
Ramazan UÇMAZ	Büyük Ayhan Village	Villager
Cansu PERDELİ	GTE Carbon	Consultant
Murat MÜFTÜOĞLU	Zeynep Enerji Üretim San. ve Tic. A.Ş.	Operation Manager
Points Verified		Source of Information
Implementation and operation of the proposed CDM project activity as per the registered PDD		Interviews
Review of information flows for generating, aggregating and reporting the monitoring parameters		Interviews
Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the PDD		Interviews
Cross-check between information provided in the monitoring report and data from other sources such as plant log books, inventories, purchase records or similar data sources		Interviews
Check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PDD and the selected methodology		Interviews
Review of calculations and assumptions made in determining the GHG data and emission reductions		Interviews
Identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters		Interviews

3.4. Reporting of Findings via the Verification Protocol

During the verification period, a Verification Protocol which is attached in Annex 1 to this verification 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 issued are explained below:

- The Verification team raises a **CAR** if one of the following occurs:
 - Non-conformities with the monitoring plan or methodology are found in the monitoring and reporting, or if the evidence provided to prove conformity is insufficient;
 - Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impair the estimate of emission reductions;
 - Issues identified in a FAR during validation to be verified during verification have not been resolved by the project participants.
- The Verification team raises a **CL** if information is insufficient or not transparent not clear enough to determine whether the applicable CDM requirements have been met.
- The Verification team raises a **FAR** during verification for actions if the monitoring and reporting require attention and/or adjustment for the next verification period.

According to these principles total of 14 CARs and 03 CLs were issued all of which are listed in the Verification Protocol. There hasn't been any FARs issued during the verification.

3.5. Follow-Up Interviews

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

3.6. Resolution of Outstanding Issues

During the verification activities CARs and CLs were issued to clarify the issues that are not transparent enough to reach a positive verification opinion and to approve the achieved GHG emission reductions.

If there are any findings issued as Forward Action Requests (FARs) indicated in previous validation and/or verification reports were discussed during this phase.

Issues issued in the FARs from previous reports, and CLs and CARs from this verification activity, were resolved, during the written and oral communications between the Project Participant and Re Carbon Ltd. Verification Team members. These communications are backed up with objective evidences that were sent to the verification team as a proof of compliance. Concerns issued in the desk review, the on-site audit assessments and the follow up interviews and the responses provided for the issued concerns are documented in Annex 1 (Verification Protocol) to guarantee the transparency of the verification process.

Table 3-6: Timeline of verification activities

Activity	Date
Desk review started	02/06/2017
On site assessment	08/06/2017
1 st Protocol submission to client	15/06/2017
Responses received	27/09/2017
2 nd Protocol submission to client	27/09/2017
Responses received	12/10/2017
3 rd Protocol submission to client	15/10/2017
Closure of all CARs and CLs	16/10/2017
Submission for Technical Review	18/10/2017
Submission for final approval	24/10/2017
Final documents submitted to client	25/10/2017
Responses to initial GS review findings	04/12/2017
Responses to initial GS review findings	02/01/2018

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 Verification Protocol provided in Annex 1 of this Verification Report.

3.7. Internal Quality Control

As a final step of verification, the final documentation including the verification report and its annexes have to undergo an internal quality control by the Re Carbon. 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 verification activities of this project activity. When the Team Leader finalizes the Verification 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 issued 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 verification report is reviewed and approved by the Team Leader, ITR and the Certification Manager/General Manager, and the request of issuance is submitted to the EB in line with the positive verification opinion and along with the all relevant documents.

4. VERIFICATION FINDINGS

4.1. Remaining Issues from Previous Validation or Verifications

Two FARs have been presented in the validation report, as follows:

Forward Action Request #1: During the first verification, the verifying DOE shall verify the coordinates of project structure.

The coordinates of the project structure were verified during the site visit, in line with the information provided in the environmental monitoring report. The environmental monitoring report dated as April 2016 which is different than the “Preliminary EIA report” and “EIA Exemption” has been submitted to DOE. Hence, FAR is closed.

Also, one FAR was raised by GS during the 8-week registration review period, as follows:

Forward Action Request #2: The DOE shall verify and confirm that the project activity does not lead to formation of a reservoir or decrease in the water flow during the operation phase.

Site visit as well as the photographic evidences submitted and presented in the MR confirms that there is no reservoir formation during the project operation. No complaint with regards to water or otherwise was received during the interviews conducted with the local stakeholders. Hence, FAR is closed.

4.2. Compliance of the Project Implementation with the Registered PDD

The project is fully implemented according to the description presented in the registered PDD. During on-site visit 08/06/2017, the commissioning of project were seen and confirmed in line with presentation in the monitoring report. The verifier confirms, through the visual inspection that all physical features of the project activity including data collecting systems and storage have been implemented in accordance with the registered PDD. Electric meters were also seen on-site. The project activity is completely operational and the same has been confirmed on-site.

According to the registered PDD, the estimated annual emission reduction is 61,936 tCO₂e. The actual values achieved for the current monitoring period is corresponding to 20 months. The actual amount of emission reduction for the current monitoring period (61,936 tCO₂e) is slightly less than the estimated emission reduction amount (66,676 tCO₂e). However, the difference is small enough to be considered as a deviation from estimated data.

The difference between the values of the data presented in the MR and the stated data in the registered PDD is not significant. The difference in the values does not lead to a substantial increment of the ER in this period or in future periods in relation to the estimates in the registered PDD.

4.3. Compliance of the Monitoring Plan with the Monitoring Methodology

The monitoring plan is in accordance with the approved methodology, ACM0002, Version 12.3.0, applied by the project activity.

In line with the methodology, the information to be monitored is the amount of net electricity delivered to the grid by the project activity, capacity of the project and area of reservoir.

4.4. Compliance of the Monitoring with the Registered Monitoring Plan

The net electricity is measured continuously by a main meter at the grid interface and recorded monthly. There is also a cross-check control meter. The meters used are in line with the regulatory requirements for electricity meters. The serial numbers are 4632454 for the main meter and 4632455 for the control meter respectively. The precision of the meters is less than 0.05%. The electricity meters have been controlled and maintained by the grid owner. The quantity of net electricity delivered to the grid has been calculated with the EPIAŞ (the financial settlement centre of TEİAŞ) records provided to the PP by TEİAŞ. All readings and billings are done via EPIAŞ system which is the legal database of the ministry.

There are always internal reviews of the metered data, which is checked by different parties. SCADA system is available from which daily reports are taken. The data collected daily is saved in plant manager computer and backed up. Log books were checked and sampled during site visit. There were no differences in data.

The capacity of the project as verified during on-site is 20.4 MW and as the project does not have a reservoir area, the area is zero.

In accordance with the registered PDD, the quantity of net electricity delivered to the grid has been monitored. The data used for emission reduction calculation comes from the grid authorities (PMUM/EPIAŞ records) and form the basis of financial settlement. The PMUM/EPIAŞ records provide the value of net electricity delivered to the grid. PMUM was the Market Financial Settlement Center in TEİAŞ (The Turkish Electricity Transmission Co.). PMUM has been subsequently restructured under a different corporate entity, EPIAŞ. Thus, the values used are accepted.

4.5. Completeness of Monitoring

All parameters required by the methodology and Gold Standard are monitored. In line with the methodology, the only information to be monitored is the amount of net electricity exported to the grid by the project activity, capacity of the project and area of reservoir. The sustainable development indicators indicated in the Passport are:

- Air quality
- Water Quality and Quantity
- Quality of employment
- Quantitative employment and income generation
- Biodiversity
- Access to clean and affordable energy services
- Balance of payments and investment
- Soil condition

As there are no missing parameters, monitoring is complete.

4.6. Sustainability Monitoring

Sustainability measures are in line with Section G of the GS-Passport. For verification of sustainability parameters in the current monitoring period, on site visit observations and interviews with local stakeholders were used.

Compliance check of the parameters indicated in the sustainability monitoring plan of the GS-Passport has been carried out, as follows in Table 4-1 below:

Table 4-1: Sustainability monitoring parameters

No.	Indicator	Chosen parameter	Way of monitoring (When)	Compliance check
1	Air quality	Reduction in amount of SO ₂ and NO _x emissions	Annually based on net annual electricity generation and ex-ante fixed respective emission factor	The net electricity generation has been checked from the EPIAŞ records and the emission intensities of SO ₂ and NO _x emissions due to electricity generation are taken as: 1.96 kg/MWh and 1.5 kg/MWh respectively, as fixed ex-ante in the Passport.
		Level of dust emissions	Once during the verification period interviewing the local people	No complaints were raised during the on-site interviews conducted with the locals by the DOE. Besides that, the confirmation letters regarding the delivery of complaint log book dated 7th January 2014 signed by the Muhtar has been submitted by the PP.
2	Water Quality and Quantity	Impact of project activity and waste water comes from management activities	Once after construction is over. Checked by site inspection and interviews	During the onsite visit, the DOE has checked and found that the wastewater is disposed properly. It is collected by sewage truck and disposed to the wastewater treatment plant.

3	Other Pollutants	Solid/liquid waste disposal as per regulations	To be checked for each verification period	During the onsite visit, the DOE has checked and found properly labelled waste storage areas and waste water storage tank.
4	Quality of employment	No. of personnel certified/ trained during operation phase	Annual check of the training records	As per the training records and certificates checked, the employees have been given training for working at heights, high voltage equipment, HSE and fire safety.
5	Quantitative employment and income generation	Payment made to staff	Yearly check of wage documents and social security records	As per the social security records checked and on-site visit, the project has employed 24 people.
6	Biodiversity	Functionality of fish passage	To be checked once on project completion by expert opinion	The fish passage was checked during the site visit and it was also confirmed by the PP representatives that vertical cleft fish passage was built and the expert report on the fish passage dated as 12 August 2012 is available. There hasn't been any complaint about the operation of fish passage by the local stakeholders.
7	Balance of payments and investment	Currency saving due to avoided fuel import	Calculated yearly by project owner	The net electricity generation has been checked from the EPIAŞ records.
8	SP9	Storage aggregate	Once after construction is over. Checked by site inspection and interviews	During the site visit, based on visual inspection it is confirmed that the aggregates has been properly disposed/used for landscaping.
9	Access to clean and affordable energy	Fossil fuel saving	Yearly based on electricity generation statistics of	The net electricity generation has been checked from the EPIAŞ

	services		Turkey	records.
10	Soil condition	Implementation of land restoration measures	Yearly through site assessments	During the site visit, based on visual inspection it is confirmed that plantation has been carried out by PP.

Based on site visit observations and provided documents DOE confirms that sustainability parameters are monitored in line with the Gold Standard Passport and Monitoring Plan.

4.7. Compliance with the Calibration Frequency Requirements for Measuring Instruments

During validation calibrated meters were installed as per the regulations. Re-calibration is required after ten years, nevertheless, in case of irregular difference between main and cross-check spare meter, TEİAŞ responsible are informed for intervention. TEİAŞ is responsible for calibration and maintenance of the devices.

All documents regarding meter quality and approvals/acceptance have been presented for the first verification.

All data collected as part of monitoring will be archived electronically by the project owner and be kept at least for 2 years after the end of the last crediting period.

4.8. Assessment of Data and Calculation of Emission Reductions

EPIAŞ records are presented to DOE for all months of the monitoring period. All data in emission reductions table are checked with EPIAŞ records. The net electricity generated during the current monitoring period was as follows in Table 4-2 below:

Table 4-2: Net electricity generation

Period	Amount	Compliance check
01/07/2015 – 31/12/2015	Export to Grid: 28,680.087 MWh Import from Grid: 94.115 MWh Net electricity supplied to grid: 28,585.972 MWh	Monthly EPIAŞ records
01/01/2016 – 31/12/2016	Export to Grid: 71,517.445 MWh Import from Grid: 47.404 MWh Net electricity supplied to grid: 71,470.041 MWh	Monthly EPIAŞ records
01/01/2017 – 28/02/2017	Export to Grid: 14,434.390 MWh Import from Grid: 4.54 MWh Net electricity supplied to grid: 14,429.850 MWh	Monthly EPIAŞ records

DOE confirms that the data used for emission reductions are correct. The grid emission factor taken is 0.541 tCO₂/MWh. The value is same as fixed ex-ante in the registered PDD.

DOE confirms that the methods and formulae used for calculating baseline emissions are in line with the methodology and the registered PDD. The net electricity generation is multiplied with the grid emission factor to arrive at the emission reductions.

Emission factor and data and parameters available before validation are also applied in line with the PDD and baseline excel sheet for validation.

4.9. Quality of Evidence

According to the PDD the estimated emission reduction for this monitoring period would be 66,676 tCO₂e. However, the project in operation totally reached 61,936 tCO₂e in this period. The vintage break-up of the emission reductions during the current monitoring period was as follows in Table 4-3 below:

Table 4-3: Emission reduction

Period	Emission reductions (tCO ₂ e)
01/07/2015 – 31/12/2015	15,465
01/01/2016 – 31/12/2016	38,665
01/01/2017 – 28/02/2017	7,806

Calculations have been reproduced by DOE. Source data (EPIAŞ records) are presented by PP.

4.10. Management System and Quality Assurance

There were two meters attached to the power plant for measurement of the generated electricity which were installed to the plant. The meters used in the power house are in line with the EMRA requirements for electricity meters. Both meters are bi-directional (meter the energy in two directions - consumption and production). If there is a measuring difference between these two meters and one of the parties (TEIAS or the PP) requests for calibration of the meters, in this case, the meters will be calibrated without waiting for the periodical check. This calibration process is made by an accredited party under the control of TEIAS. The PP is not responsible for calibration of the meters in Turkey according to the local standards.

4.11. Materiality

Verification DOE checked all data set (EPIAŞ records from 01/07/2015 - 28/02/2017) and each day of production is included in these readings. These readings are exact and are the basis for billing. They are recorded and saved automatically by government authority. There is no base for any option of material information.

Level of materiality is ensured by application of “Guideline on the Application of Materiality in Verifications, v1). To guarantee this level of assurance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

4.12. Verification of Sampling Plan

No sampling approach is used.

4.13. Post Registration Changes

4.13.1. Temporary deviations

N/A.

4.13.2. Corrections

N/A.

4.13.3. Changes to the start date of the crediting period

The crediting period start date of the project has been changed from 01/09/2015 to 01/07/2015, corresponding to the date of commissioning of Cemel-III, on 03/07/2015. This has been verified from the information provided by registered PDD and Validation Report.

4.13.4. Permanent changes

N/A.

4.13.5. Changes to the project design

N/A

5. LIST OF PERSONS INTERVIEWED

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

Table 5-1: List of persons interviewed

Reference Number	Means of Interview ²	Full Name	Title	Organization
I01	SV	Faruk ÖZKAHRAMAN	Control Operator	Zeynep Enerji Üretim San. ve Tic. A.Ş.
I02	SV	Cuma ÇELİK	Operator	Zeynep Enerji Üretim San. ve Tic. A.Ş.
I03	SV	Gökhan BALTA	Operation Technician	BMM Ltd.
I04	SV	İlker ORDU	Operator	Zeynep Enerji Üretim San. ve Tic. A.Ş.
I05	SV	Ali Rıza NAR	Local People	Avanos District
I06	SV	Ekrem ZEYBEK	Local People	Avanos District
I07	SV	Salim DÖLEK	Villager	Büyük Ayhan Village
I08	SV	Ramazan UÇMAZ	Villager	Büyük Ayhan Village
I09	SV	Cansu PERDELİ	Consultant	GTE Carbon
I10	SV	Murat MÜFTÜOĞLU	Operation Manager	Zeynep Enerji Üretim San. ve Tic. A.Ş.

² SV: Site visit; T: Telephone; EM: E-mail

6. LIST OF DOCUMENTS REVIEWED

The list of the documents which were reviewed during the verification 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	PDD 'Cemel Hydro Bundle'	09	07/04/2014
D02	GS-Passport 'Cemel Hydro Bundle'	07	11/03/2014
D03	ACM0002	12.3.0	02/03/2012
D04	Verification Service Agreement	-	13/04/2017
D05	Monitoring Report 'Cemel Hydro Bundle'	01	02/06/2017
D06	CDM Validation and Verification Standard	09.0	20/05/2015
D07	CDM Project Standard	09.0	20/05/2015
D08	CDM Project Cycle Procedure	09.0	20/05/2015
D09	Gold Standard (GS) Toolkit	2.2	-
D10	Final validation report of RINA	1.4Aa	23/04/2014
D11	GS Final Registration Review Document	-	28/11/2014
D12	ER Calculation sheet, "Confidential_Cemel Hes_VER_calcs_02062017_v1.xls"	01	02/06/2017
D13	ER Calculation sheet, "Confidential_Cemel Hes_VER_calcs_14072017_v2.xls"	02	14/07/2017
D14	Monitoring Report 'Cemel Hydro Bundle'	03	12/10/2017
D21	Electricity Generation Licence	-	09/02/2011
D22	TEIAS Meter Reading Records	-	2015-2016-2017
D25	PMUM Records	-	2015-2016-2017
D26	Turbine Provisional Acceptance Documents	-	18/06/2013-11/02/2015-28/08/2013
D27	Announcement to Local About Contact Person (In case of any complaints)	-	01/2014
D28	Social Security Records of PP and Its Subcontractors	-	-
D29	Training Certificates of PP Site Staff	-	2015-2016-2017
D30	Hazardous Waste Transfer and Disposal Agreement	-	
D31	Domestic and Recyclable Waste Transfer and Disposal Agreement	-	

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D32	Wastewater Records	-	29/07/2013- 23/09/2014- 25/06/2015- 04/08/2016
D33	Photos of Waste Temporarily Storage Area	-	08/06/2017
D34	Monitoring Report 'Cemel Hydro Bundle'	05	22/11/2017
D35	Monitoring Report 'Cemel Hydro Bundle'	06	21/12/2017

7. VERIFICATION 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.

Anil 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.

Göknıl TÜFEKÖZDEMİR, B.Sc. in Environmental Engineering has completed her Bachelor degree in Uludağ University, Turkey. She has about 10 years of professional working experience in automotive and packaging sectors in the areas of environmental management, waste management, environmental impact assessment, environmental reports, monitoring of legal conformity, quality management systems, occupational health and safety and food safety management systems, auditing and training. She has been working as a validator/verifier 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 Gözetim Denetim ve Belgelendirme Ltd. Şti. Bugi'a Plaza Muhsin Yazıcıoğlu Cad. 43/11 TR / 06520 Balgat-Ankara Tel: 0090 312 287 5122 Fax: 0090 312 287 3373	Certificate of Appointment	
	Carbon Division	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 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. Anıl SÖYLER	Certification Manager	05-05-2017	
Name	Position	Date	Signature

FC-063 / 05.05.2017 - 00



Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. Raci's Plaza Muharir Yazicioglu Cad. 43/11 TR / 06520 Balgat-Ankara Tel: 0090-312-287 5122 Fax: 0090-312-287 5373	Certificate of Appointment	
	Carbon Division	Page: 1/1

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

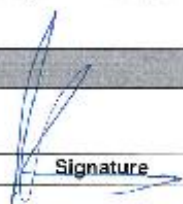
Speciality	Regional expertise	Financial expertise	Technical area	
N/A	Turkey, China and Saudi Arabia	N/A	1.2 and 13.1	

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	



Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. Başlı's Plaza Muhsin Yazıcıoğlu Cad. 43/11 TR / 06620 Balgat-Ankara Tel.: 0090-312-287 5122 Fax: 0090-312-287 3373	Certificate of Appointment	
	Carbon Division	

This Certificate of Appointment is given to **Ms. Göknl TÜFEKÖZDEMİR** 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	N/A	N/A	05-05-2017

Specialty	Regional expertise	Financial expertise	Technical area
N/A	Turkey	N/A	1.2

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 SOYLER	Certification Manager	05-05-2017	
Name	Position	Date	Signature

Re-Carbon G�zelli�m Denetimi ve Belgelendirme Ltd. �ti. Ba�lı Plaza Muhsin Yazıcıo�lu Cad. 43/11 TR - 06520 Bal�at-Ankara Tel: 0090-312-267 5122 Fax: 0090-312-267 3373	Certificate of Appointment	
	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

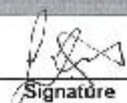
Speciality	Regional expertise	Financial expertise	Technical area
N/A	Saudi Arabia, Morocco and India	N/A	1.1, 1.2 & 13.1

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. Arif S�YLER	Certification Manager	05-05-2017	
Name	Position	Date	Signature

RC-033 / 03.05.2017 - 06



8. VERIFICATION AND CERTIFICATION OPINION

Re Carbon Ltd. has performed the 1st periodic verification of Gold Standard “Cemel Hydro Bundle” which is a project with the registry reference number “GS1208” for the period between 01/07/2015 and 28/02/2017. The scope of the activities covers the verification and certification of GHG emissions reductions reported in Monitoring Report Version 06 dated 21/12/2017 of “Cemel Hydro Bundle”.

Zeynep Enerji Üretim San. ve Tic. A.Ş. is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project Monitoring Plan indicated in the final PDD and Passport. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project, is the responsibility of the management of the Project. The development and maintenance of the records and the related monitoring procedures are in accordance with the Monitoring Report Version 05.

The verification has been performed by a verification team consisting of “Sandeep Kanda as team leader, Göknıl Tüfeközdemir as trainee verifier and Sukanta Das as ITR”, and the project activity was checked against the applicable rules and regulations of CDM including Section I of CDM Modalities and Procedures, the relevant guidance and decisions of the COP/MOP, CDM EB and CDM Validation and Verification Standard version 9.0, CDM Project Standard version 9.0, CDM Project Cycle Procedure version 9.0 and GS version 2.2.

Re Carbon Ltd. hereby confirms that the project activity “Cemel Hydro Bundle” in Turkey, is implemented in accordance with the validated and registered PDD, version 09 dated 07/04/2014 and GS-Passport, version 07 dated 11/03/2014. The monitoring system is in place and the emission reductions are calculated without material misstatements as per the applied approved methodology, which is ACM0002 Version 12.3.0.

Re Carbon confirms the following based on the results of document review and on-site assessment:

Project Title	Cemel Hydro Bundle
Applicable Period	1st Monitoring Period (01/07/2015 to 28/02/2017 both days included)
Baseline Emissions	61,936 tCO ₂ e (01/07/2015 to 31/12/2015: 15,465 tCO ₂ e; 2016: 38,665 tCO ₂ e; 01/01/2017 to 28/02/2017: 7,806 tCO ₂ e)
Project Emissions	0 tCO ₂ e
Leakage Emissions	0 tCO ₂ e
Emission Reductions	61,936 tCO ₂ e (01/07/2015 to 31/12/2015: 15,465 tCO ₂ e; 2016: 38,665 tCO ₂ e; 01/01/2017 to 28/02/2017: 7,806 tCO ₂ e)



Sandeep KANDA
Team Leader
02.01.2018



Sukanta DAS
ITR
02.01.2018



Anıl SÖYLER
Certification Manager
02.01.2018

ANNEX 1: VERIFICATION PROTOCOL

Table 1 – CDM Monitoring Report (MR) Form Requirements

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
Cover Page					
1. Has the following information been provided on the cover page of the MR?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
1.1. Title of the project activity;	CDM-MR-FORM version 5.1	DR	Title indicated in the MR is 'Cemel Hydro Bundle'. This is same as in the registered PDD and GS-Passport	OK	OK
1.2. Reference number of the project activity;	CDM-MR-FORM version 5.1	DR	Reference no. is GS1208	OK	OK
1.3. Version number of the monitoring report;	CDM-MR-FORM version 5.1	DR	The title of the first submitted MR file indicates version 1.	OK	OK
1.4. Completion date of the monitoring report (DD/MM/YYYY);	CDM-MR-FORM version 5.1	DR	02/06/2017 is the date indicated for first submission.	OK	OK
1.5. Registration date of the project activity (DD/MM/YYYY);	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
1.6. Monitoring period number and duration of this monitoring period (first and last days included (DD/MM/YYYY– DD/MM/YYYY));	CDM-MR-FORM version 5.1	DR	First monitoring period covering 01/07/2015 - 28/02/2017.	OK	OK
1.7. Project participant(s);	CDM-MR-FORM version 5.1	DR	The MR indicates Zeynep Enerji Üretim San. ve Tic. A.Ş. (Project Owner- Private Entity) and GTE Carbon Inc. (Project Developer- Private Entity) as the project participants. In the registered PDD, the PPs are Zeynep Enerji Üretim San. ve Tic. A.Ş. (Project Owner- Private Entity) and Global Tan Energy Ltd (Project Developer- Private Entity). Please clarify and correct accordingly.	CAR-1	OK

*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
1.8. Host Party(ies);	CDM-MR-FORM version 5.1	DR	Turkey	OK	OK
1.9. Sectoral scope and selected methodology(ies), and where applicable, applied standardized baseline(s);	CDM-MR-FORM version 5.1	DR	Energy industries, ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, version 12.3.0	OK	OK
1.10. Estimated amount of GHG emission reductions or net anthropogenic GHG removals by sinks for this monitoring period in the registered PDD;	CDM-MR-FORM version 5.1	DR	The estimated amount of GHG emission reductions for the monitoring period in the registered PDD has not been correctly presented.	CAR-2	OK
1.11. Actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved in this monitoring period;	CDM-MR-FORM version 5.1	DR	The emission reductions achieved during the monitoring period are not stated correctly.	CAR-3	OK
1.12. If the monitoring period starts before 31 December 2012 and ends anytime thereafter, actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved during the period up to 31 December 2012;	CDM-MR-FORM version 5.1	DR	N.A.	OK	OK
1.13. If the monitoring period starts before 31 December 2012 and ends anytime thereafter, actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved during the period from 1 January 2013 onwards.	CDM-MR-FORM version 5.1	DR	N.A.	OK	OK
General Requirements					
2. Has the following requirements been followed for the completion of MR?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
2.1. Completing the CDM-MR-FORM and all attached documents in English or containing a full translation of relevant sections in English	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
2.2. Completing the CDM-MR-FORM using the same format without modifying its font, headings or logo	CDM-MR-FORM version 5.1	DR	Yes	OK	OK

*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
2.3. Completing the CDM-MR-FORM without any other alteration	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
2.4. Completing the CDM-MR-FORM by deleting the Attachment of "Instructions for filling out the monitoring report form"	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
2.5. Not modifying or deleting tables and their columns in the CDM-MR-FORM	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
A. Description of the Project Activity					
A.1. Purpose and general description of the project activity					
A.1.1. Has a brief summary of the detailed description given in the section B.1 provided under section A.1 of the MR?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
A.1.2. Has the purpose of the project activity and the measures taken to reduce greenhouse gas emissions been provided under section A.1 of the MR?	CDM-MR-FORM version 5.1	DR	The Monitoring Report section A is to describe the project activity at the period of monitoring. Therefore, the PP shall describe what has happened rather than what is anticipated/planned during the registration. In other words, the monitoring report shall use past tense rather than future tense. The Monitoring report shall be revised accordingly. Further, the following information is missing: Relevant dates for the project activity (e.g. continued operation periods, etc.); Total GHG emission reductions achieved in this monitoring period.	CAR-4	OK
A.1.3. Has a brief description of the installed technology and equipments been provided under section A.1 of the MR?	CDM-MR-FORM version 5.1	DR	The actual installed capacity of CEMEL III has not been stated.	CAR-5	OK
A.1.4. Has the relevant dates for the project activity (e.g. construction, commissioning, continued operation periods, etc.) been provided under section A.1 of the MR?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-4, CAR-5	OK

*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
A.1.5. Has the total emissions reductions achieved in this monitoring period been provided under section A.1 of the MR?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-4	OK
A.2. Location of the project activity					
A.2.1. Has complete information on the location of the project activity, including town, city, country and GPS coordinates been provided under section A.2 of the MR?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
A.3. Parties and project participant(s)					
A.3.1. Has the list of the Parties and PPs been provided under section A.3 of the MR?	CDM-MR-FORM version 5.1	DR	Zeynep Enerji Üretim San. ve Tic. A.Ş. (Project Owner-Private Entity) and GTE Carbon Inc. (Project Developer-Private Entity) are stated as the project participants and Turkey as host country. Refer to CAR-1	CAR-1	OK
A.4. Reference of applied methodology and standardized baseline					
A.4.1. Has a complete reference of the methodology or standardized baseline(s), tools and other methodologies to which the applied methodology(ies) applied been provided under section A.4 including the version numbers and titles?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
A.5. Crediting period of project activity					
A.5.1. Has the crediting period including the crediting period start date, choice and length of the crediting period been provided under section A.5 of the MR?	CDM-MR-FORM version 5.1	DR	The crediting period indicated in the submitted monitoring report is 01/09/2015 – 31/08/2022, with renewable crediting period. However, the monitoring period is indicated as 01/07/2015 – 28/02/2017. The change in crediting period start date is to be clarified and corrected.	CAR-6	OK
A.6. Contact information of responsible persons/ entities					

*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
A.6.1. Is the contact information of the person(s)/ entity(ies) responsible for completing the CDM-MR-FORM been provided under section A.6 of the MR?	CDM-MR-FORM version 5.1	DR	Yes, the details of contact persons from Zeynep Enerji Üretim San. ve Tic. A.Ş. and GTE Carbon Inc. are presented as Murat Müftüoğlu and M. Kemal Demirkol respectively. The latter being the project consultant.	OK	OK
B. Implementation of the Project Activity					
B.1. Description of implemented registered project activity					
B.1.1. Has the installed technology(ies), technical process and equipment, including the diagrams, where appropriate, been included in section B.1 of the MR?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §257a	DR	Yes	OK	OK
B.1.2. Has the information on the implementation and actual operation of the project activity (including relevant dates, construction, commissioning, continued operation periods etc.) been provided under section B.1 of the MR?	EB93 Report Annex 4 §257b	DR	The commissioning dates as stated in the PDD are presented in the MR: Cemel I is 27/06/2013, of Cemel II is 01/09/2013; and of Cemel III is 01/09/2015. Please clarify if the commissioning of Cemel III happened on 01/09/2015 as expected.	CL-1	OK
B.1.3. If the project activity consists of more than one site, has the status of implementation and starting date of operation for each site been clearly described under section B.1 of the MR?	EB93 Report Annex 4 §257b	DR	Refer to CL above	CL-1	OK
B.1.4. If the implementation of the project activity planned to be realized in different phases, has the progress of the proposed CDM project activity achieved in each phase been indicated under section B.1 of the MR?	EB93 Report Annex 4 §257b	DR	Refer to CL above	CL-1	OK
B.1.5. Do the actual project activity and its operation comply with the registered PDD?	EB93 Report Annex 5 §357a	DR	Yes	OK	OK
B.1.6. Have the PPs implemented and operated the CDM project activity as per the descriptions contained in	EB93 Report Annex 5 §357a	DR	Yes	OK	OK

*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
the registered PDD?					
B.2. Post registration changes					
B.2.1. Temporary deviations from registered monitoring plan, applied methodology or applied standardized baseline					
B.2.1.1. Is it indicated whether any temporary deviations have been applied during this monitoring period?	EB93 Report Annex 4 §232 EB93 Report Annex 5 §282 CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.1.2. If there are temporary deviations from the registered monitoring plan or applied methodology or standardized baseline, have PPs described the nature, extent and duration of the non-conforming monitoring and the proposed alternative monitoring of the project activity in the MR?	EB93 Report Annex 4 §232 CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.1.3. If there are temporary deviations from the registered monitoring plan or applied methodology or standardized baseline, do the description of deviations include the following?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.1.3.1. How it deviates from the monitoring plan and/or applied methodology(ies),	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.1.3.2. The duration for which the deviation(s)	CDM-MR-	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
is(are) applicable	FORM version 5.1				
B.2.1.3.3. Justification on the conservativeness of the approach.	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.1.4. If there are temporary deviations from the registered monitoring plan or applied methodology or standardized baseline, have PPs applied conservative assumptions or discount factors to the calculations to the extent required to ensure that GHG emission reductions will not be over-estimated as a result of the deviation?	EB93 Report Annex 4 §232a EB93 Report Annex 5 §284	DR	N/A	OK	OK
B.2.1.5. If there are temporary deviations from the registered monitoring plan and/or monitoring methodology or standardized baseline, is the deviation likely to lead to a reduction in the accuracy of the calculation of emission reductions?	EB93 Report Annex 5 §284	DR	No	OK	OK
B.2.1.6. If the deviation(s) require prior approval by the Board, do they include the date of approval and reference number?	CDM-MR-FORM version 5.1	DR	No	OK	OK
B.2.2. Corrections					
B.2.2.1. Is it indicated whether any corrections to project information or parameters fixed at validation have been approved during this monitoring period or submitted with this monitoring report?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §233	DR	N/A	OK	OK
B.2.2.2. If the correction(s) and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, are the approval date and reference number	CDM-MR-FORM version 5.1	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
provided?					
B.2.2.3. If the correction(s) and the revised PDD aren't approved prior to the submission of this monitoring report for request for issuance, are the version number and the completion date of the revised PDD provided?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.2.4. Is the corrected information an accurate reflection of actual project information?	EB93 Report Annex 5 §288a	DR	N/A	OK	OK
B.2.2.5. Are the corrected parameters in accordance with the applied methodology, selected monitoring plan and/or the applied standardized baseline?	EB93 Report Annex 5 §288b	DR	N/A	OK	OK
B.2.3. Permanent changes from registered monitoring plan, applied methodology or applied standardized baseline					
B.2.3.1. Is it indicated whether any permanent changes from the registered monitoring plan or applied methodologies or standardized baseline had been approved during this monitoring period or submitted with this monitoring report?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §239	DR	N/A	OK	OK
B.2.3.2. Are the changes to the monitoring plan contained in the registered PDD in compliance with the applied methodology and, where applicable, the applied standardized baseline?	EB93 Report Annex 5 §296	DR	N/A	OK	OK
B.2.3.3. Do the changes reduce the level of accuracy of the monitoring compared with the requirements contained in the registered	EB93 Report Annex 5 §297	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
monitoring plan?					
B.2.3.4. If the permanent changes are likely to lead to a reduction in the accuracy of the calculation of emission reductions, do the PPs apply conservative assumptions or discount factors to the calculations to the extent required to ensure that emission reductions will not be over-estimated as a result of the permanent change?	EB93 Report Annex 5 §298	DR	N/A	OK	OK
B.2.3.5. If the permanent changes and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, are the approval date and reference number provided?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.3.6. If permanent changes and the revised PDD aren't approved prior to the submission of this monitoring report for request for issuance, are the version number and the completion date of the revised PDD provided?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.4. Changes to project design of registered project activity					
B.2.5.1. Are there proposed or actual changes to the project design of a registered project activity?	EB93 Report Annex 5 §300	DR	N/A	OK	OK
B.2.5.2. In case of actual changes, does the description of actual changes accurately reflect the implementation, operation and monitoring of the modified project activity?	EB93 Report Annex 5 §301	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
B.2.5.3. Do the actual changes comply with the monitoring plan, the applied monitoring methodology and tools and/or, where applicable, the applied standardized baseline, and/or the level of accuracy of the monitoring activity?	EB93 Report Annex 5 §302	DR	N/A	OK	OK
B.2.5.4. Does the revised PDD comply with the applied monitoring methodology and tools and/or standardized baseline or any later version of the methodology and/or standardized baseline or the requirements of another methodology and/or the standardized baseline that is applicable to the project activity?	EB93 Report Annex 5 §303	DR	N/A	OK	OK
B.2.5.5. Does the changes to project activity include the following?	EB93 Report Annex 4 §240	DR	N/A	OK	OK
B.2.1.3.1.Changes in the effective output capacity due to increased installed capacity or increased number of units, or installation of units with lower capacity or units with a technology which is less advanced than that described in the PDD?	EB93 Report Annex 4 §240a	DR	N/A	OK	OK
B.2.1.3.2. Addition of component or extension of technology has been occurred?	EB93 Report Annex 4 §240b	DR	N/A	OK	OK
B.2.1.3.3. Removal or addition of one (or more) site of a project activity registered with multiple-sites?	EB93 Report Annex 4 §240c	DR	N/A	OK	OK
B.2.1.3.4. Removal of a project activity from a bundle of small-scale CDM project	EB93 Report Annex 4 §240d	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
activities?					
B.2.1.3.5. Actual operational parameters which are within the control of project participants differing from the expected parameters?	EB93 Report Annex 4 §240e	DR	N/A	OK	OK
B.2.1.3.6. Any consequential changes to the baseline methodology, including changing or adding another baseline methodology or applying a baseline scenario that is more appropriate as a result of the proposed or actual modifications to the project activity?	EB93 Report Annex 4 §240f	DR	N/A	OK	OK
B.2.1.3.7. Voluntary update of the applied methodologies to a later valid version of the same methodologies, or voluntary change to other methodologies, provided all requirements in the updated/changed methodologies are met.	EB93 Report Annex 4 §240g	DR	N/A	OK	OK
B.2.5.6. Do the PPs report in the revised PDD the impacts of the proposed or actual changes to the registered project activity on the following:	EB93 Report Annex 4 §243				
B.2.6.6.1 The applicability and application of the applied methodology and, where applicable, the applied standardized baseline under which the project activity has been registered;	EB93 Report Annex 4 §243a EB93 Report Annex 5 §303c	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
B.2.4.7.1. Compliance of the monitoring plan with the applied methodology and, where applicable, the applied standardized baseline;	EB93 Report Annex 4 §243b EB93 Report Annex 5 §303d	DR	N/A	OK	OK
B.2.4.7.2. The level of accuracy and completeness in the monitoring of the project activity;	EB93 Report Annex 4 §243c	DR	N/A	OK	OK
B.2.4.7.3. The additionality of the project activity;	EB93 Report Annex 4 §243d EB93 Report Annex 5 §303a	DR	N/A	OK	OK
B.2.4.7.4. The scale of the project activity.	EB93 Report Annex 4 §243e EB93 Report Annex 5 §303b	DR	N/A	OK	OK
B.2.4.1. If the proposed or actual changes affect the additionality of the registered project activity,	EB93 Report Annex 4 §244	DR	N/A	OK	OK
B.2.4.8.1. In the case of investment analysis, have PPs modified the key parameters in the original spreadsheet calculations affected by the proposed or actual modifications to the project activity?	EB93 Report Annex 4 §244a EB93 Report Annex 5 §304a	DR	N/A	OK	OK
B.2.4.8.2. In cases where only barriers have been claimed to demonstrate additionality, have PPs demonstrated that the barriers are still valid under the new	EB93 Report Annex 4 §244b EB93 Report	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
circumstances?	Annex 5 §304b				
B.2.4.2. If the PPs can't demonstrate compliance with the requirements of the applied methodology and, where applicable, the applied standardized baseline under which the project activity has been registered,	EB93 Report Annex 4 §246	DR	N/A	OK	OK
B.2.4.9.1. Has PPs revised the PDD applying the latest version of the methodology and, where applicable, the applied standardized baseline?	EB93 Report Annex 4 §246a(i)	DR	N/A	OK	OK
B.2.4.9.2. If another methodology and, where applicable, the applied standardized baseline is applied to the project activity, has PPs demonstrated compliance with the requirements of the selected methodology and/or the selected standardized baseline?	EB93 Report Annex 4 §246a(ii)	DR	N/A	OK	OK
B.2.4.3. Is it indicated whether any changes to the project design of the project activity from the registered monitoring plan or applied methodologies had been approved during this monitoring period or submitted with this monitoring report?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.4.4. If the changes and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, are the approval date and reference number provided?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
B.2.4.5. If the changes and the revised PDD aren't approved prior to the submission of this	CDM-MR-FORM version 5.1	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
monitoring report for request for issuance, are the version number and the completion date of the revised PDD provided?					
B.2.5. Changes to start date of crediting period					
B.2.5.1. Is it indicated whether any changes to the start date of the crediting period had been approved during this monitoring period or submitted with this monitoring report?	EB93 Report Annex 4 §236 §237 EB93 Report Annex 5 §290	DR	The start date of crediting period has been changed from 01/09/2015 as in registered PDD to 01/07/2015 as start date for the monitoring period. The earlier crediting period start date shall also be stated along with the reason for the change in the start date.	CAR-7	OK
B.2.5.2. Have the changes been notified to the Secretariat by the PPs?	EB93 Report Annex 4 §235	DR	N/A	OK	OK
B.2.5.3. If where the changes and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, are the approval date and reference number provided?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
C. Description of the Monitoring System					
C.1. Has a description of the monitoring system been provided under section C of the MR?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §259	DR	Yes	OK	OK
C.2. Has information about the data collection procedures, including following been provided under section C of the MR?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §259	DR	Yes	OK	OK
C.2.1. Information flow including data generation	CDM-MR-	DR	Yes	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
	FORM version 5.1 EB93 Report Annex 4 \$259				

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
C.2.2. Data aggregation	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §259	DR	Yes	OK	OK
C.2.3. Data recording	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §259	DR	Yes	OK	OK
C.2.4. Data calculation	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §259	DR	Yes	OK	OK
C.2.5. Data reporting	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §259	DR	Yes	OK	OK
C.3. Has organizational structure, roles and responsibilities of personnel, and emergency procedures for the monitoring system been provided under section C of the MR?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §259	DR	Yes	OK	OK
C.4. Regarding to the management and operational system, are the responsibilities and authorities for monitoring	EB93 Report Annex 5	DR	Yes	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
and reporting in accordance with the responsibilities and authorities stated in the monitoring plan?	§364b-(iv)				
C.5. Have quality assurance and quality control procedures been applied in accordance with the monitoring plan?	EB93 Report Annex 5 §364e	DR	Yes	OK	OK
C.6. Has line diagram(s) showing all relevant monitoring points been provided under section C of the MR?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §259	DR	The MR shall include the line diagram showing all relevant monitoring points including main and control meters.	CAR-8	OK
C.7. Have the monitoring plan been properly implemented and followed by the PPs?	EB93 Report Annex 5 §364a	DR	Yes	OK	OK
C.8. Has the monitoring of parameters (baseline / project / leakage / emission reduction) in the project activity been implemented in accordance with the monitoring plan contained in the registered PDD or any accepted revised monitoring plan?	EB93 Report Annex 5 §364b-(i)-(ii)-(iii)	DR	Yes	OK	OK
C.9. Have all parameters stated in the monitoring plan, the applied methodology and relevant CDM EB decisions been sufficiently monitored and updated as applicable?	EB93 Report Annex 5 §364b	DR	Yes	OK	OK
C.10. Are monitoring results consistently recorded and stored as per the approved frequency?	EB93 Report Annex 5 §364d	DR	Yes	OK	OK
D. Data and Parameters					
D.1. Data and parameters fixed ex ante or at renewal of crediting period					
D.1.1. Has all the data that is determined only once for the crediting period but are used after registration of the project, been listed under section D.1 using the tabular format?	CDM-MR-FORM version 5.1	DR	As the grid emission factor, has been calculated and fixed ex-ante in the registered PDD, it should be included in section D.1 of the MR instead of the background parameters used for the calculation.	CAR-9	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
D.1.2. If all the data that is determined only once for the crediting period but are used after registration of the project, does the listed data include all the parameters used to calculate baseline, project and leakage emissions as well as other relevant parameters required by the approved methodology and the monitoring plan?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-9	OK
D.1.3. In the data/parameter tables provided under section D.1 of the MR, for each data has the name of the data/parameters given in accordance with the registered PDD and the applied approved methodology?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-9	OK
D.1.4. In the data/parameter tables provided under section D.1 of the MR, for each data has the unit of the data/parameters given in accordance with the registered PDD and the applied approved methodology?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-9	OK
D.1.5. In the data/parameter tables provided under section D.1 of the MR, for each data has the description of the data/parameters given in accordance with the registered PDD and the applied approved methodology?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-9	OK
D.1.6. In the data/parameter tables provided under section D.1 of the MR, for each data has the source of the data/parameters given in accordance with the registered PDD and the applied approved methodology?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-9	OK
D.1.7. In the data/parameter tables provided under section D.1 of the MR, for each data has the values applied of the data/parameters given in accordance with the registered PDD and the applied approved methodology?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-9	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
D.1.8. In the data/parameter tables provided under section D.1 of the MR, for each data has it been indicated what the data/parameters are used for (baseline/project /leakage emission calculations)?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-9	OK
D.2. Data and parameters monitored					
D.2.1. Has all the data that are monitored been listed under section D.2 of the MR using the tabular format?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
D.2.2. In the data/parameter tables provided under section D.2 of the MR, for each data has the name of the data/parameters given in accordance with the registered PDD and the applied approved methodology?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
D.2.3. In the data/parameter tables provided under section D.2 of the MR, for each data has the unit of the data/parameters given in accordance with the registered PDD and the applied approved methodology?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
D.2.4. In the data/parameter tables provided under section D.2 of the MR, for each data has it been described how the data is monitored?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
D.2.5. In the data/parameter tables provided under section D.2 of the MR, for each data has the source of data been indicated (like logbooks, daily records, surveys, etc.)?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
D.2.6. In the data/parameter tables provided under section D.2 of the MR, for each data has the values of the monitoring parameter been indicated?	CDM-MR-FORM version 5.1	DR	The electricity supplied to the grid and electricity consumed from the grid should be explicitly presented vintage wise.	CAR-10	OK
D.2.7. In the data/parameter tables provided under section D.2 of the MR, for each data has the QA/QC	CDM-MR-FORM version 5.1	DR	Yes	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
procedures being applied been given?					
D.2.8. In the data/parameter tables provided under section D.2 of the MR, for each data has it been indicated what types of equipment are used to monitor each parameter, including following, if applicable as per the monitoring plan?	CDM-MR-FORM version 5.1	DR	The details about the meter accuracy class, metering test reports and calibration including validity and frequency shall be indicated in the MR.	CAR-11	OK
D.2.8.1. Details on accuracy class	CDM-MR-FORM version 5.1	DR	Refer to CAR above.	CAR-11	OK
D.2.8.2. Calibration frequency	CDM-MR-FORM version 5.1	DR	Refer to CAR above.	CAR-11	OK
D.2.8.3. Serial number	CDM-MR-FORM version 5.1	DR	Refer to CAR above.	CAR-11	OK
D.2.8.4. Calibration date	CDM-MR-FORM version 5.1	DR	Refer to CAR above.	CAR-11	OK
D.2.8.5. Validity of the calibration	CDM-MR-FORM version 5.1	DR	Refer to CAR above.	CAR-11	OK
D.2.9. In the data/parameter tables provided under section D.2 of the MR, for each data has the measurement and recording frequency been indicated?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
D.2.10. Is the calibration frequency for measuring equipments specified in the monitoring methodology, guidance provided by the Board or in the monitoring plan?	EB93 Report Annex 5 §368	DR	N/A	OK	OK
D.2.11. If the calibration frequency for measuring	EB93 Report Annex 5	DR	Refer to CAR above.	CAR-11	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
equipments isn't specified in the monitoring methodology, guidance provided by the Board or the monitoring plan, are the equipments calibrated either in accordance with the specifications of the local/national standards, or as per the manufacturer's specification?	§373				
D.2.12. If neither local/national standards nor the manufacturer's specification are available, have the international standards been used?	EB93 Report Annex 5 §373	DR	Refer to CAR above.	CAR-11	OK
D.2.13. Is the calibration of the measuring equipments that have an impact on the claimed emission reductions conducted by the PPs at a frequency specified in the applied monitoring methodology and/or the monitoring plan?	EB93 Report Annex 5 §374	DR	Refer to CAR above.	CAR-11	OK
D.2.14. Has the calibration been delayed and has the calibration been implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available) for the certain monitoring period?	EB93 Report Annex 5 §369	DR	Refer to CAR above.	CAR-11	OK
D.2.15. If the calibration is delayed and if the calibration is implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available) for the certain monitoring period, are one of the following approaches adopted by the PPs for the calculation of emission reductions?	EB93 Report Annex 5 §369	DR	Refer to CAR above.	CAR-11	OK
D.2.15.1. Applying the maximum permissible error of the instrument to the measured values taken during the period between the scheduled date of calibration and the actual date of calibration, if the results of the delayed calibration do not show any errors in	EB93 Report Annex 5 §369a	DR	Refer to CAR above.	CAR-11	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
the measuring equipment, or if the error is smaller than the maximum permissible error; or					
D.2.15.2. Applying the error identified in the delayed calibration test, if the error is beyond the maximum permissible error of the measuring equipment.	EB93 Report Annex 5 §369b	DR	Refer to CAR above.	CAR-11	OK
D.2.16. If calibration is delayed and if the calibration is implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available) for the certain monitoring period, has the error been applied in following ways?	EB93 Report Annex 5 §370	DR	Refer to CAR above.	CAR-11	OK
D.2.16.1. The adjusted measured values of the delayed calibration result in fewer claimed emission reductions?	EB93 Report Annex 5 §370a	DR	Refer to CAR above.	CAR-11	OK
D.2.16.2. For all measured values taken during the period between the scheduled date of calibration and the actual date of calibration?	EB93 Report Annex 5 §370b	DR	Refer to CAR above.	CAR-11	OK
D.2.17. If the results of the delayed calibration aren't available, have Pss calculated the emission reductions conservatively?	EB93 Report Annex 5 §371	DR	Refer to CAR above.	CAR-11	OK
D.2.18. If the results of the delayed calibration aren't available, have post registration requirements been followed by the PPs?	EB93 Report Annex 5 §372	DR	Refer to CAR above.	CAR-11	OK
D.2.19. Have any information about appropriate emission factors, IPCC default values and any other reference values that have been used in the calculation of emission reductions been given in detail in the MR?	CDM-MR-FORM version 5.1	DR	Refer to CAR above.	CAR-11	OK
D.2.20. If the data that are monitored been listed under section D.2 using the tabular format, does the listed data include all the parameters used to calculate baseline, project and leakage emissions as well as	CDM-MR-FORM version 5.1 EB93 Report Annex 4	DR	Yes	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
other relevant parameters required by the approved methodology and, where applicable, the applied standardized baseline and the monitoring plan?	§260				
D.2.21. Is a complete set of data available for the specified monitoring period?	EB93 Report Annex 5 §376	DR	Yes	OK	OK
D.3. Implementation of sampling plan					
D.3.1. If data and parameters monitored described in section D.2 of the MR are determined by a sampling approach, has the description on how PPs implemented the sampling for those data and parameters according to the sampling plan been provided?	CDM-MR-FORM version 5.1 EB94 Report Annex 2 EB86 Report Annex 4	DR	N/A	OK	OK
D.3.2. If data and parameters monitored described in section D.2 of the MR are determined by a sampling approach, has the following been included?	CDM-MR-FORM version 5.1 EB94 Report Annex 2 §29 §30 §31 §32 §33	DR	N/A	OK	OK
D.3.2.1. Description of implemented sampling design;	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
D.3.2.2. Collected data (electronic spreadsheets may be attached and referenced);	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
D.3.2.3. Analysis of the collected data;	CDM-MR-FORM version 5.1	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
D.3.2.4. Demonstration on whether the required confidence/precision has been met.	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
E. Calculation of Emission Reductions or GHG Removals by Sinks					
E.1. Calculation of baseline emissions or baseline net GHG removals by sinks					
E.1.1. Has all the formulae used to calculate the baseline emissions been provided under section E.1 of the MR?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
E.1.2. Has sample calculations for all formulae used and calculation of baseline emissions or baseline net GHG removals by sinks, applying actual values been provided under section E.1 of the MR?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
E.1.3. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
E.1.4. Have any assumptions used in baseline emission calculations been justified?	EB93 Report Annex 5 §376d	DR	N/A	OK	OK
E.1.5. If applicable, are the appropriate emission factors used for the baseline emission calculations in line with the good guidance practices? (e.g. IPCC default values and other reference values)	EB93 Report Annex 5 §376e	DR	Yes	OK	OK
E.2. Calculation of project emissions or actual net GHG removals by sinks					
E.2.1. Has all the formulae used to calculate the project emissions been provided under section E.2 of the MR?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
E.2.2. Has sample calculations for all formulae used and calculation of project emissions or or actual net GHG removals by sinks, applying actual values been	CDM-MR-FORM version	DR	N/A	OK	OK

*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
provided under section E.2 of the MR?	5.1				
E.2.3. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
E.2.4. Have any assumptions used in project emission calculations been justified?	EB93 Report Annex 5 §376d	DR	N/A	OK	OK
E.2.5. If applicable, are the appropriate emission factors used for the project emission calculations in line with the good guidance practices? (e.g. IPCC default values and other reference values)	EB93 Report Annex 5 §376e	DR	N/A	OK	OK
E.3. Calculation of leakage					
E.3.1. Has all the formulae used to calculate the leakage emissions been provided under section E.3 of the MR?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
E.3.2. Has sample calculations for all formulae used and calculation of leakage emissions, applying actual values been provided under section E.3 of the MR?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
E.3.3. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
E.3.4. Have any assumptions used in leakage emission calculations been justified?	EB93 Report Annex 5 §376d	DR	N/A	OK	OK
E.3.5. If applicable, are the appropriate emission factors used for the leakage emission calculations in line with the good guidance practices? (e.g. IPCC default values and other reference values)	EB93 Report Annex 5 §376e	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
E.4. Summary of calculation of emission reductions or net anthropogenic GHG removals by sinks					
E.4.1. Have the total baseline emissions or baseline net GHG removals by sinks during the monitoring period been given under section E.4 of the MR?	CDM-MR-FORM version 5.1	DR	The emissions are to be presented conservatively without decimals and for 1000 separator comma (,) is to be used instead of decimal (.) symbol. Round-down function is to be used for each vintage.	CAR-12	OK
E.4.2. Has the total project emissions or actual net GHG removals by sinks during the monitoring period been given under section E.4 of the MR?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
E.4.3. Has the total leakage emissions during the monitoring period been given under section E.4 of the MR?	CDM-MR-FORM version 5.1	DR	N/A	OK	OK
E.4.4. Have the total emission reductions or net anthropogenic GHG removals by sinks during the monitoring period been given under section E.4 of the MR?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-12	OK
E.4.5. If the monitoring period starts before 31 December 2012 and ends anytime thereafter, has actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved for the following two periods been provided under section E.7 of MR?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §266		N/A	OK	OK
E.4.5.1. Up to 31 December 2012 (1st commitment period); and	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §266a			OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
E.4.5.2. From 1 January 2013 onwards	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §266a			OK	OK
E.4.6. If the monitoring period starts before 31 December 2012 and ends anytime thereafter and the annual caps are applied in the GHG emission reduction or net anthropogenic GHG removal' calculations, has the annual caps been pro-rated to each period?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §266b			OK	OK
E.4.7. If there is material information that can cause overestimation of emission reductions or removals of the project activity, is this equal to higher than one of the following?	EB93 Report Annex 5 §329	DR	No	OK	OK
E.4.5.1. 0.5 per cent of the emission reductions or removals for project activities achieving a total emission reduction or removal of equal to or more than 500,000 tons of carbon dioxide equivalent per year?	EB93 Report Annex 5 §329a	DR	N/A	OK	OK
E.4.5.2. 1 per cent of the emission reductions or removals for project activities achieving a total emission reduction or removal between 300,000 and 500,000 tons of carbon dioxide equivalent per year?	EB93 Report Annex 5 §329b	DR	N/A	OK	OK
E.4.5.3. 2 per cent of the emission reductions or removals for large-scale project activities achieving a total emission reduction or removal of 300,000 tons of carbon dioxide equivalent per year or less?	EB93 Report Annex 5 §329c	DR	N/A	OK	OK
E.4.5.4. 5 per cent of the emission reductions or	EB93 Report Annex 5	DR	N/A	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
removals for small-scale project activities other than project activities covered under E.4.6.5 below?	§329d				
E.4.5.5. 10 per cent of the emission reductions or removals for the microscale project activities?	EB93 Report Annex 5 §329e	DR	N/A	OK	OK
E.5. Comparison of actual emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD					
E.5.1. Has a comparison of actual values of the GHG emission reductions or net anthropogenic GHG removal of the project activity achieved during the monitoring period with the estimations in the registered CDM-PDD been given under section E.5 of the MR?	CDM-MR-FORM version 5.1 EB93 Report Annex 4 §268	DR	Comparison of actual values of the GHG emission reductions of the project activity achieved with the estimations in the registered PDD for each vintage covering the monitoring period is to be provided	CAR-13	OK
E.5.2. If the comparison of actual values of the GHG emission reductions or net anthropogenic GHG removal of the project activity achieved during the monitoring period with the estimations in the registered CDM-PDD is given under section E.5 of the MR, has this comparison been given using the tabular format provided?	CDM-MR-FORM version 5.1	DR	Refer to CAR above	CAR-13	OK
E.6. Remarks on difference from estimated value in registered PDD					
E.6.1. Has an explanation of the cause of any increase in the actual emission reductions achieved during the current monitoring period (e.g. higher water availability, higher load plant factor, etc.), including all information (i.e. data and/or parameters) that is different from that stated in the registered CDM-PDD, been provided under section E.6 of the MR?	CDM-MR-FORM version 5.1	DR	The actual ER is lower than the PDD estimate due to lower water flow.	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
E. Other Requirements					
F.1. Forward action requests (FARs) identified during validation and/or previous verification					
F.1.1. Is there any remaining FARs from the validation and/or previous verification activities?	EB93 Report Annex 5 §38 §349	DR, SV	The validation report does have one FAR. The coordinates of project structure given under A.2.4 of the PDD shall be validated at the first monitoring period by the DOE. Also, one FAR was raised by GS during the 8-week registration review period. The DOE shall verify and confirm that the project activity does not lead to formation of a reservoir or decrease in the water flow during the operation phase. Provide supporting evidences in response to these FARs.	CL-2	OK
F.1.2. If there any remaining FARs from the validation and/or previous verification activities, have the PPs addressed these FARs in the MR?	EB93 Report Annex 5 §38 §349	DR	Refer to CL above	CL-2	OK
F.1.3. Has the FARs been resolved?	EB93 Report Annex 5 §38 §349 §347d	DR	Refer to CL above	CL-2	OK
Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
Appendix-1 Contact information of project participants and responsible persons/ entities					
1. Is the contact information of PPs listed in Section A.3 of monitoring report provided in Appendix 1?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK
2. Is the contact information of responsible	CDM-MR-	DR	Yes	OK	OK

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Question		Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
	person/entity for application of the selected methodology(ies) and, where applicable, the selected standardized baselines to the project activity provided in Appendix 1?	FORM version 5.1				
3.	Is it indicated whether the person(s)/entity(ies) responsible for the application of the selected methodology(ies) and, where applicable, the selected standardized baseline(s) to the project activity is a PP?	CDM-MR-FORM version 5.1	DR	Yes	OK	OK

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Table 2 – Additional Gold Standard Requirements (In the Reference section, Gold Standard references are given by stating T for the Toolkit and R for the Requirements and the section number. All references given are from Gold Standard Toolkit Version 2.2 unless otherwise stated)

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
1. Has the host country implemented a cap on its GHG emissions, after the registration of the project activity?	T 1.2.2	DR	N/A	OK	OK
2. If the host country implemented a cap on its GHG emissions after the registration of the project activity, has a proof of retirement of an equal amount of allowances been submitted by the project owners?	T 1.2.7	DR	N/A	OK	OK
3. Has there been any grievances raised by the local stakeholders?	T 4.5	DR, SV	During the site visit, the DOE conducted interviews with the local stakeholders from Avanos and Boysk Ayhan village. No complaints were received. PP shall clarify, about the comment book for stakeholder feedback was not seen available on-site for obtaining local stakeholder grievance.	CL-3	OK
4. If there are any grievances raised by the local stakeholders, has the PPs responded clearly to these comments?	T 4.5	SV	The villages stated that Cemel HEPP has positively affected the Avanos district with regards to watering, mild climate and employment.	OK	OK
5. Are all the parameters as listed in the registered documents monitored?	T	DR	The indicators and associated parameters have been included in the monitoring report, however, the details for the current monitoring period has not been stated for some, as follows: • The brief of the third party monitoring regarding dust emissions during construction need to be indicated. • The assessment/opinion of independent expert on effectiveness of the fish passage will be included in monitoring report. • Excavation aggregates and top soil is collected and used for landscaping or stored properly. • Project activity impact on water regime in the river and waste water on the local environment. • Land restoration measures implemented for the indicator 'Soil condition'.	CAR-14	OK

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

Table 3 – Resolution of Corrective Action, Forward Action and Clarification Requests

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1 and Table-2	Summary of Project Participants' Response	Verification Team Conclusion
CAR-1 The MR indicates Zeynep Enerji Üretim San. ve Tic. A.Ş. (Project Owner- Private Entity) and GTE Carbon Inc. (Project Developer- Private Entity) as the project participants. In the registered PDD, the PPs are Zeynep Enerji Üretim San. ve Tic. A.Ş. (Project Owner- Private Entity) and Global Tan Energy Ltd (Project Developer- Private Entity). Please clarify and correct accordingly.	1.7	The name of the company updated. GTE Carbon is trade name of Global Tan Energy	Review 1: The MR is revised. Explanation is accepted. Closed.
CAR-2 The estimated amount of GHG emission reductions for the monitoring period in the registered PDD has not been correctly presented.	1.10	According to PDD, 40,006 tCO2 emission reduction is expected annually. Our monitoring period is 20 month so; the expected emission reduction value in this period is 66,676 tCO2.	Review 1: Ok Closed
CAR-3 The emission reductions achieved during the monitoring period are not stated correctly.	1.11	Revised.	Review 1: Ok Closed
CAR-4 The Monitoring Report section A is to describe the project activity at the period of monitoring. Therefore, the PP shall describe what has happened rather than what is anticipated/planned during the registration. In other words, the monitoring report shall use past tense rather than future tense. The Monitoring report shall be revised accordingly. Further, the following information is missing: Relevant dates for the project activity (e.g. continued operation periods, etc.); Total GHG emission reductions achieved in this monitoring period.	A.1.2	Revised. Review 1- Revised	Review 1: The description in A.1 has been revised to reflect the implementation status of the project. The same was verified during the site visit. However, actual realized electricity generation and implementation status of the project is not included. Total GHG emissions achieved during the monitoring period are also not included. Review-2:

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

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1 and Table-2	Summary of Project Participants' Response	Verification Team Conclusion
			Ok Closed
CAR-5 The actual installed capacity of CEMEL III has not been stated.	A.1.3	Revised.	Review 1: Ok Closed
CAR-6 The crediting period indicated in the submitted monitoring report is 01/09/2015 – 31/08/2022, with renewable crediting period. However, the monitoring period is indicated as 01/07/2015 – 28/02/2017. The change in crediting period start date is to be clarified and corrected.	A.5.1	Provisional acceptance letters are submitted.	Review 1: Ok Closed
CAR-7 The start date of crediting period has been changed from 01/09/2015 as in registered PDD to 01/07/2015 as start date for the monitoring period. The earlier crediting period start date shall also be stated along with the reason for the change in the start date.	B.2.5.1	Revised.	Review 1: Ok Closed
CAR-8 The MR shall include the line diagram showing all relevant monitoring points including main and control meters.	C.6	Diagram has been added.	Review 1: Ok Closed
CAR-9 As the grid emission factor, has been calculated and fixed ex-ante in the registered PDD, it should be included in section D.1 of the MR instead of the background parameters used for the calculation.	D.1.1	Table has been added.	Review 1: Ok Closed
CAR-10 The electricity supplied to the grid and electricity consumed	D.2.6	Revised.	Review 1:

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1 and Table-2	Summary of Project Participants' Response	Verification Team Conclusion
from the grid should be explicitly presented vintage wise.			Ok Closed
CAR-12 The details about the meter accuracy class, metering test reports and calibration including validity and frequency shall be indicated in the MR.	D.2.8.1	Revised. Review 1- Revised. Review-2- Validity period has been added.	Review 1: Please clarify and include the validity of the calibration. Review-2 The calibration information is included. The last calibration was done on 22.08.2014. Also, provide the validity period of the calibration. Review 3: Ok Closed
CAR-12 The emissions are to be presented conservatively without decimals and for 1000 separator comma (,) is to be used instead of decimal (.) symbol. Round-down function is to be used for each vintage.	E.4.1	Revised.	Review 1: Ok Closed
CAR-13 Comparison of actual values of the GHG emission reductions of the project activity achieved with the estimations in the registered PDD for each vintage covering the monitoring period is to be provided	E.5.1	Revised.	Review 1: Ok Closed
CAR-14	Table 2, 5	-Further information about the dust emission has been	Review 1:

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1 and Table-2	Summary of Project Participants' Response	Verification Team Conclusion
The indicators and associated parameters have been included in the monitoring report, however, the details for the current monitoring period has not been stated for some, as follows: - The brief of the third party monitoring regarding dust emissions during construction need to be indicated. - The assessment/opinion of independent expert on effectiveness of the fish passage will be included in monitoring report. - Excavation aggregates and top soil is collected and used for landscaping or stored properly. - Project activity impact on water regime in the river and waste water on the local environment. - Land restoration measures implemented for the indicator 'Soil condition'.		added. -Fish passage current situation could be verified from the photos -Soil, current situation could be verified from the photos -Water Quality and Quantity part is revised. -Land restoration measures have been added.	Ok Closed
CL-1 The commissioning dates as stated in the PDD are presented in the MR: Cemel I is 27/06/2013, of Cemel II is 01/09/2013; and of Cemel III is 01/09/2015. Please clarify if the commissioning of Cemel III happened on 01/09/2015 as expected.	B.1.2	Commissioning date of Cemel III happened on 03/07/2015. Supporting documents are submitted.	Review 1: Ok Closed
CL-2 The validation report does have one FAR. The coordinates of project structure given under A.2.4 of the PDD shall be validated at the first monitoring period by the DOE. Also, one FAR was raised by GS during the 8-week registration review period. The DOE shall verify and confirm that the project activity does not lead to formation of a reservoir or decrease in the water flow during the operation phase.	F.1.1	Supporting documents are submitted. Review 1- As mentioned in the monitoring report (FAR1-FAR2), there is no reservoir formation and the project coordinates are also confirmed from the env. Monitoring report pg 2,3.	Review 1: Please provide detailed response and clearly state the documents where such information is indicated. Review 2: Ok Closed

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1 and Table-2	Summary of Project Participants' Response	Verification Team Conclusion
Please provide supporting evidences in response to these FARs.			
CL-3 PP shall clarify, about the comment book for stakeholder feedback was not seen available on-site for obtaining local stakeholder grievance.	Table 2, 3	Confirmation letter are submitted.	Review 1: Ok Closed