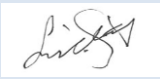


MURAT HEPP PROJECT 1ST VERIFICATION REPORT



Report Prepared By: Re-Consult Rüzgar Enerjisi Danışmanlık İç ve Dış Tic. Ltd. Şti.

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Prepared By	Re-Consult Rüzgar Enerjisi Danışmanlık İç ve Dış Tic. Ltd. Şti.	
Contact	Address: Bagi's Plaza, Muhsin Yazıcıoğlu Cad. 43/11 06520 Balgat-Ankara/TURKEY Tel.: 0090-312-287 51 22 Fax: 0090-312-287 33 73 email: doe@re-consult.net Website: www.re-consult.net	
Approved By	Mr. Praveen PYATA Technical Reviewer	Mr. Anıl SÖYLER Certification Manager
		
Work Carried Out By	Verification Team Leader	Verification Team Members
	Mrs. Hande SEZER YILMAZ	Mr. Anıl SÖYLER

Summary:

The project includes the installation of a large-scale runoff river hydroelectric power plant (HEPP) with an installed capacity of 35.478 MWe on the Göksu River flowing through Besni, Adıyaman in Turkey's South-eastern Region. The purpose of the project activity is to generate electricity and supply it into the public grid. The project activity reduces greenhouse gas (GHGs) emissions that would have otherwise occurred in the absence of the project activity by avoiding electricity generation from fossil fuel sources. The project includes the installation of 3 horizontal axis francis turbines of 8686 kW installed capacity in Murat I HEPP and 3 horizontal axis francis turbines of 3577 KW capacity in Murat II HEPP.

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 PD /D09/ version 04 dated 19/02/2014. A site visit is performed on 24/10/2014 to assess whether the project is implemented in line with the description given in the registered PD.

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, Approved consolidated baseline and Monitoring Methodology ACM0002 "Consolidated Baseline Methodology for Grid Connected Electricity Generation From Renewable Resources" version 13.0.0 /D04/, 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 07.0 /D01/, CDM Project Standard version 07.0 /D02/, CDM Project Cycle Procedure version 07.0 /D03/ and VCS version 3 /D06/ .

The only purpose of the verification and certification is its usage during the issuance process as part of the VCS project cycle.

During this verification 12 Corrective Action Requests (CAR) and 19 Clarification Requests (CL) were raised all of which were resolved by either revising the Monitoring Report or by sending objective evidence to the verification team.

re-consult Ltd. hereby confirms that the level of assurance of this verification report is reasonable, with respect to material errors, omissions and misrepresentations. To guarantee this level of assurance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

re-consult confirms the following based on the results of document review and on-site assessment for the period between 05/10/2012 and 30/09/2014.

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2012	21,082	0	0	21,082
2013	106,907	0	0	106,907
2014	26,890	0	0	26,890
Total	154,879	0	0	154,879

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1 INTRODUCTION

1.1 Objective

re-consult Ltd. has been appointed by “Murat HES Enerji, Elektrik Üretim ve Tic. A.Ş.” to perform the first verification of the “Murat HEPP Project” with the contract /D11/ dated 08/09/2014. The objective of this verification activity is to assess, with objective evidence:

- if the monitoring report version 01 /D08/ dated 25/09/2014 conforms with the requirements of the monitoring plan of the registered Project Description (PD) and the approved methodology
- if the project activity conforms with the monitoring report and the registered PD, and
- if the data reported in the monitoring report are complete and transparent.

1.2 Scope and Criteria

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 PD /D09//D09/ version 04 dated 19/02/2014.

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, Approved consolidated baseline and Monitoring Methodology ACM0002 “Consolidated Baseline Methodology for Grid Connected Electricity Generation From Renewable Resources” version 13.0.0 /D04//D04/, 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 07.0 /D01//D01/, CDM Project Standard version 07.0 /D02/, CDM Project Cycle Procedure version 07.0 /D03/ and VCS version 3 /D06/ .

The only purpose of the verification and certification is its usage during the issuance process as part of the VCS project cycle. Therefore, re-consult 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.

1.3 Level of Assurance

re-consult Ltd. hereby confirms that the level of assurance of this verification report is reasonable, with respect to material errors, omissions and misrepresentations. To guarantee this level of assurance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

1.4 Summary Description of the Project

The project includes the installation of a large-scale runoff river hydroelectric power plant (HEPP) with an installed capacity of 35.478 MWe on the Göksu River flowing through Besni, Adıyaman in Turkey's South-eastern Region. The purpose of the project activity is to generate electricity and supply it into the public grid. The project activity reduces greenhouse gas (GHGs) emissions that would have otherwise occurred in the absence of the project activity by avoiding electricity generation from fossil fuel sources. The project includes the installation of 3 horizontal axis francis turbines of 8686 kW installed capacity in Murat I HEPP and 3 horizontal axis francis turbines of 3577 KW capacity in Murat II HEPP.

Murat HEPP project is owned by “Murat HES Enerji , Elektrik Üretim ve Ticaret A.Ş.” The project has been validated as a Voluntary Emission Reduction (VER) project by RINA S.p.A. in 23-April-2014.

The project activity diverts the water from the Göksu river by a diversion weir (516m thalweg elevation), and then carried by a 15,002 m conveyance canal to a fore-bay. Accumulated water in the fore-bay is released through a 135 m penstock to the turbines at Murat I HEPP. Murat I HEPP's tail-water is carried to a fore-bay through 5,709 m long conveyance canal. Then accumulated water in the fore-bay released through 125 m penstock to the turbines and therefore electricity generated at Murat II HEPP. Finally water is released to the riverbed.

The project also supports the sustainable economic development in the region.

The starting date of the project activity is 05-October-2012, which is also the starting date of the crediting period.

According to the baseline scenario, electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the “Tool to calculate the emission factor for an electricity system”. This first monitoring period covers the dates between 05-October-2012 and 30-September-2014 (both days inclusive). Total Emission reductions achieved in this monitoring period is 154,879 tonnes CO₂e.

2 VERIFICATION PROCESS

2.1 Method and Criteria

re-consult Ltd. has been appointed by “MURAT HES ENERJİ, ELEKTRİK ÜRETİM VE TİC. A.Ş.” to perform the first verification of the “Murat HEPP Project” with the contract /D11/ dated 08/09/2014. The objective of this verification activity is to assess, with objective evidence:

- if the monitoring report version 01 /D08/ dated 25/09/2014 conforms with the requirements of the monitoring plan of the registered PD and the approved methodology
- if the project activity conforms with the monitoring report and the registered PD, and
- if the data reported in the monitoring report are complete and transparent.

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 PD /D09//D09/ version 04 dated 19/02/2014.

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, Approved consolidated baseline and Monitoring Methodology ACM0002 “Consolidated Baseline Methodology for Grid Connected Electricity Generation From Renewable Resources” version 13.0. /D04/, 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 07.0 /D01//D01/, CDM Project Standard version 07.0 /D02/, CDM Project Cycle Procedure version 07.0 /D03/ and VCS version 3 /D06/.

The only purpose of the verification and certification is its usage during the issuance process as part of the VCS project cycle. Therefore, re-consult 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.

2.2 Document Review

The basis for the verification activity is the Monitoring Report /D08/ version 01, dated 25/09/2014 which was submitted to the verification team on 25/09/2014. This monitoring report was revised several times due to the issued CARs and CLs, version 06 /D37/dated 17/02/2015 being the final version. The monitoring report and the monitoring activities were assessed against the registered PD /D09//D09/, version 04 dated 19/02/2014, the Approved consolidated baseline and Monitoring Methodology ACM0002 “Consolidated Baseline Methodology for Grid Connected Electricity Generation From Renewable Resources” version 13.0.0 /D04//D04/, the relevant VCS rules and regulations, CDM Validation and Verification Standard version 07.0 /D01/, CDM Project Standard version 07.0 /D02/, CDM Project Cycle Procedure version 07.0 /D03/ and the final validation report of RINA Services S.p.A. /D10/ version 1.2 Aa 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

The list of the documents which were reviewed during the validation period is given in the Table 2-1 below:

Table 2-1: List of documents reviewed

Document Number	Document Name	Version	Date (dd/mm/yyyy)
/D01/	CDM Validation and Verification Standard	07.0	01/06/2014
/D02/	CDM Project Standard	07.0	01/06/2014
/D03/	CDM Project Cycle Procedure	07.0	01/06/2014
/D04/	Approved consolidated baseline and monitoring methodology ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"	13.0.0	11/05/2012
/D05/	VCS Validation and Verification Manual	3.1	08/10/2013
/D06/	VCS Standard	3.4	08/10/2013
/D07/	VCS Program Guide	3.5	08/10/2013
/D08/	Murat HEPP Project Monitoring Report	1	25/09/2014
/D09/	Murat HEPP Project PD	04	19/02/2013
/D10/	Murat HEPP Project Validation Report	1.2Aa	23/04/2014
/D11/	Murat HES Enerji, Elektrik Üretim ve Tic. A.Ş. –re-consult Ltd. Verification Service Agreement		08/09/2014
/D12/	VCS Monitoring Report Template	3.3	08/10/2013
/D13/	Murat HEPP Emission Reduction Calculation Excel Sheet	1	26/09/2014
/D14/	Murat HEPP Provisional Acceptance Protocol		05/10/2012
/D15/	Report of the Audit performed by the officials of Ministry of Environment and Urbanization (Report Serial Number: A007663)		15/08/2014
/D16/	PMUM (Market Financial Conciliation Center) Records during the monitoring period		2012, 2013, 2014
/D17/	TEIAS First index determination protocol		27/08/2012
/D18/	Project Proponents Replies to Draft VCS Verification NC Table	2	12/11/2014
/D19/	Murat HEPP Calibraton Records of the Main Meter		21/12/2011
/D20/	Murat HEPP Calibraton Records of the Backup Meter		21/12/2011
/D21/	EPDK (EMRA-Energy Market Regulatory Authority) Amendment of the Generation License		26/10/2011
/D22/	First Aid Training Certificates and ID Cards of Murat HEPP employees, Ahmet Dag and Murat Nazif Guler		

Document Number	Document Name	Version	Date (dd/mm/yyyy)
/D23/	Health and Safety Training Certificates of Murat HEPP employees, Burak Aydın, Yusuf Bozkurt, Kemal Asma and Zekeriya Deniz		04/08/2014
/D24/	Murat HEPP Monthly OSF Forms 2012-2013-2014		
/D25/	Murat HEPP Project Monitoring Report	2	10/11/2014
/D26/	Murat HEPP Emission Reduction Calculation Excel Sheet	2	12/11/2014
/D27/	Letter of Application for the Amendment of the License	2	12/11/2014
/D28/	Murat HEPP Project Monitoring Report	3	08/12/2014
/D29/	Murat HEPP Emission Reduction Calculation Excel Sheet	3	12/12/2014
/D30/	Project Proponents Replies to Draft VCS Verification NC Table	3	12/12/2014
/D31/	Murat HEPP Project Monitoring Report	4	26/12/2014
/D32/	Murat HEPP Emission Reduction Calculation Excel Sheet	4	26/12/2014
/D33/	Project Proponents Replies to Draft VCS Verification NC Table	4	26/12/2014
/D34/	Murat HEPP Project Monitoring Report	5	06/01/2015
/D35/	Project Proponents Replies to Draft VCS Verification NC Table	5	06/01/2015
/D36/	Calibration Records of Main Meters		22/09/2010
/D37/	Murat HEPP Project Monitoring Report	6	17/02/2015
/D38/	Project Proponents Replies to Draft VCS Verification NC Table	6	17/02/2015
/D39/	Regulation on the Calibration of Metering Equipment		24/07/1994 revised on 12/12/2013

2.3 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.

The list of people who were interviewed during the validation period is given in the Table 2-2 below:

Table 2-2: List of persons interviewed

Reference Number	Means of Interview ¹	Full Name	Title	Organization
I01	SV	Hasan Asman	Mechanical Technician	Murat HEPP
I02	SV	Hasan Türkmen	Electrical Technician	Murat HEPP
I03	SV	Orhan Karatemur	Mechanical Technician	Murat HEPP
I04	SV	Abidin Doğaner	Facilities Engineer	Murat HEPP
I05	SV	Ahmet Dağ	HEPP Technician	Murat HEPP
I06	SV	Becet Baran	Construction Foreman	Murat HEPP
I07	SV	Burak Bozkurt	Facility Manager	Murat HEPP
I08	SV	Mehmet Karadağ	Administrative Affairs Responsible	Murat HEPP
I09	SV, T, E	Serkan Baybo	Project Specialist	SUEN Ltd.
I10	SV, E	Mustafa Soysert	Renewable Energy Project Manager	SUEN Ltd.

2.4 Site Inspections

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 2-3 below:

Table 2-3: Site visit details

Date	24/10/2014	
Location	Adıyaman Province, Turkey	
Participant	Company Name	Role in the Organization / Role in the Site Visit
Burak Bozkurt	Murat HEPP	Site Manager
Mehmet Karadağ	Murat HEPP	Administrative Affairs Supervisor
Hasan Asman	Murat HEPP	Mechanical Technician
Hasan Türkmen	Murat HEPP	Electrical Technician
Orhan Karatemur	Murat HEPP	Mechanical Technician

¹ SV: Site visit; T: Telephone; E: E-mail

Abidin Doğaner	Murat HEPP	Facilities Engineer
Ahmet Dağ	Murat HEPP	HEPP Technician
Becet Baran	Murat HEPP	Construction Foremen
Mustafa Soysert	SUEN Ltd.	Project Carbon Consultant
Serkan Baybo	SUEN Ltd.	Project Carbon Consultant
Points Verified		Source of Information
Implementation and operation of the proposed VCS project activity as per the registered PD		Site visit and interviews with the related personnel.
Review of information flows for generating, aggregating and reporting the monitoring parameters		Site visit, interviews with Mr. Asman, Mr. Türkmen, Mr. Doğaner and Mr. Karatemur
Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the PD		Interviews with Mr. Bozkurt, Mr. Karadağ, Mr. Asman, Mr. Türkmen, Mr. Doğaner and Mr. Karatemur
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		Review of PMUM Records /D16/ and OSF Forms /D24/
Check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD and the selected methodology		Review of the monitoring equipment and calibration records /D19/, /D20/, /D36/
Review of calculations and assumptions made in determining the GHG data and emission reductions		Review of PMUM Records /D16/ and OSF Forms /D24/ against the GHG Emission Reduction Calculation Excel Sheets /D13/, /D26/, /D29/, /D32/
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		Site visit, interviews with Site Manager Mr. Bozkurt and Mr. Karadağ and the related project staff.

2.5 Resolution of Findings

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

- Assessment of the conformity of the actual project activity and its operation with the registered PD /D09/dated 19/02/2013 version 04.
- A site visit was conducted on 24/10/2014 to assess that all physical features of the project activity proposed in the registered PD are in place and that the project participants has operated the project activity as per the registered PD.
- Assessment of the compliance of the monitoring plan with the monitoring methodology /D04/ Approved consolidated baseline and monitoring methodology ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"
- 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 two tables:

- Table 1 (Monitoring Report and VCS verification requirements) and
- Table 2 (Resolution of Corrective Action, Forward Action and Clarification Requests)

The usage description of Table-1 in Verification Protocol is explained in Table 2-4 below:

Table 2-4: 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 2-5 below:

Table 2-5: Explanation about Table-2 in Verification Protocol

Draft Report Clarifications, Forward Action and Corrective Action Requests by Verification Team	Ref. to Questions in Table-1	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.

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 re-consult internal terminology and VCS version 3.4 /D06/, 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 and/or VCS 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 12 CARs, 19 CLs and 0 FARs were issued all of which are listed in the Verification Protocol.

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 VCS 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 09/09/2014 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 2-6 below:

Table 2-6: Verification team and ITR details

Name	Role	Host Country Experience	Scope Coverage	Technical Expertise	Involvement*
Hande SEZER YILMAZ	TL	☑	☑	☑	DR, SV,R
Anıl SÖYLER	TM	☑	☑	☑	DR, R
Praveen PYATA	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

As a final step of verification, the final documentation including the verification report and its annexes have to undergo an internal quality control by re-consult. 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 VCS Organization in line with the positive verification opinion and along with the all relevant documents.

2.5.1 Forward Action Requests

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 as explained in Section 2.5.

According to these principles total of 0 FARs were issued all of which are listed in the Verification Protocol and the details of these FARs are explained in below.

2.6 Eligibility for Validation Activities

During this verification re-consult Ltd. took part in the validation of several changes in the project activity, however re-consult Ltd. holds accreditation for the scope of these validation activities.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project does not participate under other GHG Programs.

3.2 Methodology Deviations

During the monitoring period, the following deviations are determined and the monitoring plan is revised:

- The source of the parameter “Quantity of net electricity generation supplied by the Project plant/unit to the grid in year y” was given as “Monthly Meter Reading Protocols” in the VCS PD. However, since TEIAS started to measure the produced electricity remotely, Monthly Meter Reading Protocols are not available. Therefore, the source of the parameter is defined as “Market Financial Conciliation Center (PMUM) records which includes the exact electricity productions and tractions. PMUM records are the basis of the invoices made out to TEIAS.
- The source for the cross-check of the amount of produced electricity is also revised as “OSF Forms” which are prepared by TEIAS after the remote measurements of the meters and sent to the plant engineer by e-mail at the end of each month.

The deviations described above meets the criteria and specifications for permitted methodology deviations as it relates only to the procedures relating to monitoring and measurement and does not negatively impact the conservativeness of the quantification of GHG emission reductions.

As a result re-consult Ltd. hereby confirms that the methodology deviations applied to the project are valid.

3.3 Project Description Deviations

The installed capacity of the project is given as 37,22 MWe in the registered PD, however the actual realized value of the installed power is 35,48 MWe because of the design requirements of the OEM company. At time of preparing the final field application projects of Murat HEPP due to the fields geographical reasons of the Project site such as slope and elevation amendment requirements the Project owner have need to revise the installed power in FSR report and on final application projects. Both of them (FSR and Project drawings) had been presented to DSI (General Directorate of State Hydraulic Works) and these have been reviewed and approved by DSI. After this approval the Project owner applied to EMRA for the amendment of the installed power on the license. Their request have been reviewed by EMRA and assessed to be approved for amendment, which is then the license have been amended according to the relevant request.

The above mentioned deviation does not impact applicability of the methodology as it only changes the installed capacity of the project activity and not the type of the project.

The additionality of the project activity is also not effected by the deviation as the generation of the project is between the limits already checked with the sensitivity analysis.

The deviation does not effect the appropriateness of the baseline scenario as it remains the same and is in line with the methodology.

The deviation is appropriately described and justified and the project remains in compliance with the VCS Rules.

CAR06, **CL09** and **CL10** were raised regarding this deviation, all of which were resolved during verification. As a result re-consult Ltd. hereby confirms that the project deviation is valid.

3.4 Grouped Project

The project is not a grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

Compliance of the Project Implementation with the Registered PD:

A site visit was performed to the project site on 24 October 2014. During this site visit, all the project elements including the two HEPPs (Murat I and Murat II), two diversion weirs, regulation pool and projects social contributions to the surrounding villages were observed. As a result of this observation, re-consult Ltd. hereby confirms that the project is fully implemented according to the description given in the registered PD /D09/.

The project started its operations on 05 October 2012 which was verified by the provisional acceptance protocol /D14/ dated 05 October 2012. The project activity does not consist of more than one site and does not have any phased implementation.

During the site visit it was observed that due to the changes in procedures of TEIAS the monitoring plan couldn't be applied according to the monitoring plan in the registered PD. According to the registered PD the monitoring would be done from the monthly meter reading protocols, however as everything is done remotely by TEIAS, no protocols were signed. To overcome this obstacle the project proponents are using PMUM records for the monitoring. The PMUM records are assessed to be more reliable by the verification team as it is all automated and it omits the risk of human failure.

The GHG emission reductions generated by the project are not included in an emission trading program or any other mechanism that includes GHG allowance trading, because of the position of the host country.

The project activity has not received any other form of environmental credits, as there are no such crediting schemes in the host country.

The only other eligible GHG program in the host country is Gold Standard, and the project is not listed in the GS Registry, hence re-consult Ltd. confirms that the project has not participated or been rejected under any other GHG programs since validation.

CAR01, CAR02, CAR03, CAR05 and CL07 were raised regarding the project description and the implementation status. The content of these CARs and CLs and how they are closed can be seen in **Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests**

The only deviation from the project description the change of the installed capacity, which was questioned in **CAR06, CL09 and CL10** details of which can be seen in Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests.

re-consult Ltd. hereby confirms that the project has been implemented as described in the validated PD /D09/ and the Monitoring Report version 05 dated 06 January 2015 /D34/ reflects the project description and implementation status precisely.

Remaining Issues from Previous Validation or Verifications

According to section 2.6 of the validation report /D10/ issued by Rina S.p.A. dated 23 April 2014, no FARs were raised during validation.

Compliance of the Monitoring Plan with the Monitoring Methodology

According to the monitoring methodology ACM0002 /D04/ the only parameters that need to be monitored are quantity of net electricity generation supplied by the project plant to the grid ($EG_{\text{facility}, y}$),

Installed capacity of the hydro power plant after the implementation of the project activity (CAP_{PJ}) and area of the reservoir (A_{PJ}). These parameters are monitored in the monitoring plan that is also approved by the validation DOE, hence the monitoring plan is in compliance with the monitoring methodology. The data and parameters that are monitored and the procedures in place for monitoring these data and parameters are listed below:

- $EG_{facility,y}$: According to the monitoring plan in the registered PD, this parameter is monitored from the records in the monthly meter reading protocols. However after the project is implemented as everything is done remotely by TEIAS, no protocols were signed. To overcome this obstacle the project proponents are using PMUM records for the monitoring. The PMUM records are assessed to be more reliable by the verification team as it is all automated and it omits the risk of human failure. To cross-check the generation data, the following data flow procedures is applied at both Murat I and Murat II HEPP:

The staff reads the active and reactive generation values and record these values in a "MURAT HES TM GUNLUK SAYAC FORMU" (Murat HEPP Daily Meter Form), this form is also kept as a soft copy in an excel sheet. Since the beginning of operation, these forms are archived. The data is also sent to PMUM over the SCADA system. The internal consumption data is recorded every 12 hours. OSF Forms are also used as a cross-check mechanism, however if there are any discrepancies between OSF forms and PMUM records then the data in PMUM records are valid.

During this verification all of the PMUM recordings and OSF forms have been reviewed by the verification team. The ISVM (İletim Sistemine Veris Miktarı-Amount Fed to the Transmission Grid) data on PMUM records are used for the gross generation data and UEÇM (Uzlaştırmaya Esas Çekiş Miktarı – Imported Amount Agreed for Conciliation) data on PMUM records are used for internal consumption data. The project mainly uses its own electricity however during the times when there is no generation, the project imports electricity from the grid.

- CAP_{PJ} : According to the monitoring plan in the registered PD, the installed capacity of the power plant is monitored annually from the name plates of the hydropower equipment. During the site visit the name plates of the turbines were reviewed and the installed capacity given in the monitoring report is in line with the installed capacity shown on the name plates of the equipment. re-consult Ltd. hereby confirms that the installed capacity is monitored according to the monitoring plan.
- A_{PJ} : According to the monitoring plan, the area of the reservoir is monitored via a water level measurement in the reservoir by means of gauge equipment, and will be monitored by the cam system. However during the site visit it is seen that the project participants have used the surface area of the reservoir at its maximum capacity, and this value is taken from the topographical surveys.

The surface area of the reservoir is used to calculate the power density of the reservoir which is a function of the surface area and installed capacity. If the power density is greater than 10 W/m^2 , then according to the applied methodology the project emissions from the hydropower plant is equal to zero.

During the site visit it is confirmed by the DOE that the surface area of the reservoir can not be higher than the maximum value calculated by the topographical survey as the excess water in the reservoir will be spilling from the spillways. As the power density of the reservoir

is not below 10 W/m² even with the highest value of reservoir area, the project emissions are taken as zero.

The following issues were raised as CARs and CLs during the verification regarding the data and parameters that are monitored and that were available during validation:

CAR08, CAR09, CL11, CL12 and CL13

The details of these issues and how they are resolved can be seen in **Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests**

re-consult Ltd. hereby confirms that the monitoring plan is in line with the applied monitoring methodology ACM0002 /D04/, and the monitoring is done according to this plan except with some minor deviations which are explained above. These deviations do not reduce the quality of monitoring.

The following issues were raised as CARs and CLs during the verification regarding the organizational structures, procedures, responsibilities and QA/QC measures of the monitoring plan:

CAR11, CAR12, CL14 and CL15

The details of these issues and how they are resolved can be seen in **Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests**

Completeness of Monitoring Report:

re-consult Ltd. hereby confirms that the monitoring report version 05 dated 06 January 2015 /D34/ is prepared using the latest template of VCS Monitoring Report Template /D12/.

The following issues were raised as CARs and CLs during the verification regarding the cover page and general requirements of the monitoring report template:

CAR04, CL01, CL02, CL03, CL04, CL05, CL06 and CL08

The details of these issues and how they are resolved can be seen in **Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests**

Compliance with the Calibration Frequency Requirements for Measuring Instruments:

The calibration of the electricity meters is done according to the national regulations. The calibration or the meters were checked using the calibration records /D19/, /D20/ and /D36/.

CAR10 was raised regarding the calibration resolution of which can be seen in **Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests**

4.2 Accuracy of GHG Emission Reduction or Removal Calculations

According to the applied methodology ACM0002 /D04/ and the registered PD /D09/ the GHG emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y$$

Where:

ER_y = Emission reductions in year y (tCO₂e/yr)

BE_y = Baseline emissions in year y (tCO₂/yr)

PE_y = Project emissions in year y (tCO₂e/yr)

According to the applied methodology, for hydropower plants if the power density of the reservoir is higher than 10 W/m², then PE_y = 0. The power density of Murat HEPP is calculated as follows:

$$PD = \frac{Cap_{PJ} - Cap_{BL}}{A_{PJ} - A_{BL}}$$

Where;

- PD = Power density of the project activity (W/m²)
- Cap_{PJ} = Installed capacity of the hydro power plant after the implementation of the project activity (W)
- Cap_{BL} = Installed capacity of the hydro power plant before the implementation of the project activity (W). For new hydro power plants, this value is zero
- A_{PJ} = Area of the single or multiple reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoir is full (m²)
- A_{BL} = Area of the single or multiple reservoirs measured in the surface of the water, before the implementation of the project activity, when the reservoir is full (m²). For new reservoirs, this value is zero

The project activity is a Greenfield run-of-river hydropower project, therefore Cap_{BL} and A_{BL} are equal to zero.

A_{PJ} = 640,471.91 m² which was calculated as the maximum area of the reservoir from topographical surveys

Cap_{PJ} = 35,478,000 W

The power density is calculated as follows:

$$PD = 35,478,000 / 640,471.91 = 55.39 \text{ W/m}^2$$

As the power density is higher than 10W/m², the project emissions of Murat HEPP are equal to zero. Therefore the emission reductions generated during the monitoring period are equal to baseline emissions.

The baseline emissions in the monitoring period are calculated using the following formula:

$$BE_y = EG_{PJ,y} * EF_{grid,CM,y}$$

Where;

- BE_y = Baseline emissions in year y (tCO₂/y)
- EG_{PJ,y} = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh/y)
- EF_{grid,CM,y} = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system"(tCO₂/MWh)

Since Murat HEPP is a greenfield renewable power plant:

$$EG_{PJ,y} = EG_{facility,y} = \text{The amount of net electricity produced and fed into the grid by Murat HEPP in year y.}$$

Combined margin CO₂ emission factor ($EF_{grid,CM,y}$) is calculated once during the validation of the project activity and is valid throughout the first crediting period of 10 years.

Table 4-1 below, shows monthly generation figures and baseline emissions for the monitoring period between 05 October 2012 and 30 September 2014 (both days included):

Table 4-1: Monthly generation and consumption figures and calculated baseline emissions

Month-Year	Gross Energy Generation (ISVM ²) (MWh)	Self Consumption (UEÇM ³) (MWh)	Net Electricity Generation (EG _{facility,y}) (ISVM-UEÇM) (MWh)	Emission Factor (tCO ₂ /MWh)	Baseline Emissions (tCO ₂)
October-2012	5.700,169	10,332	5.689,837	0,650	3.698,39
November-2012	6.682,118	1,61	6.680,508	0,650	4.342,33
December-2012	20.063,821	0,014	20.063,807	0,650	13.041,47
2012 TOTAL	32.446,108	11,956	32.434,152	0,650	21.082
January-2013	23.712,139	0,117	23.712,022	0,650	15.412,81
February-2013	22.721,420	0,028	22.721,392	0,650	14.768,90
March-2013	25.161,520	0,000	25.161,520	0,650	16.354,99
April-2013	23.834,686	0,208	23.834,478	0,650	15.492,41
May-2013	23.237,179	0,000	23.237,179	0,650	15.104,17
June-2013	12.477,110	7,985	12.469,125	0,650	8.104,93
July-2013	7.075,581	18,903	7.056,678	0,650	4.586,84
August-2013	4.809,640	28,359	4.781,281	0,650	3.107,83
September-2013	5.532,906	18,038	5.514,868	0,650	3.584,66
October-2013	5.598,943	18,439	5.580,504	0,650	3.627,33
November-2013	5.165,175	17,648	5.147,527	0,650	3.345,89
December-2013	5.276,752	19,563	5.257,189	0,650	3.417,17
2013 TOTAL	164.603,051	129,288	164.473,763	0,650	106.907
January-2014	6.984,388	17,485	6.966,903	0,650	4.528,49
February-2014	6.363,850	15,306	6.348,544	0,650	4.126,55

² ISVM stands for "İletim Sistemine Veriş Miktarı" which means the amount of electricity generated and fed into the grid.

³ UEÇM stands for "Uzlaştırmaya Esas Çekiş Miktarı" which means the amount of electricity imported from the grid for self consumption. The project uses its own generated electricity internally and feeds the remaining to the grid, however during the times when there is not enough generation, the project activity imports electricity from the grid.

Month-Year	Gross Energy Generation (ISVM ²) (MWh)	Self Consumption (UEÇM ³) (MWh)	Net Electricity Generation (EG _{facility,y}) (ISVM-UEÇM) (MWh)	Emission Factor (tCO ₂ /MWh)	Baseline Emissions (tCO ₂)
March-2014	12.470,601	14,573	12.456,028	0,650	8.096,42
April-2014	7.082,169	18,064	7.064,105	0,650	4.591,67
May-2014	4.222,176	22,643	4.199,533	0,650	2.729,70
June-2014	2.371,751	32,831	2.338,920	0,650	1.520,30
July-2014	998,873	45,914	952,959	0,650	619,42
August-2014	341,300	55,860	285,440	0,650	185,54
September-2014	806,385	49,286	757,099	0,650	492,11
2014 TOTAL	41.641,493	271,962	41.369,531	0,650	26.890
GRAND TOTAL	238.690,65	413,21	238.277,45	0,650	154.879

The values given in Table 4-1 above are all taken from PMUM (Market Financial Conciliation Center) records, which is the authority for electricity markets in the host country. All of the records have been cross checked with OSF forms.

Table 4-2 below shows the net GHG emission reductions during the monitoring period:

Table 4-2: Net GHG Emission Reductions During the Monitoring Period

Monitoring Period	Baseline Emissions (tCO ₂ e)	Project Emissions (tCO ₂ e)	Leakage Emissions (tCO ₂ e)	Net GHG Emission Reductions (tCO ₂ e)
05 October 2012 – 31 December 2012	21,082	0	0	21,082
01 January 2013 – 31 December 2013	106,907	0	0	106,907
01 January 2014 – 30 September 2014	26,890	0	0	26,890
TOTAL	154,879	0	0	154,879

The following issues were raised as CARs and CLs during the verification regarding the data and parameters that are were available during validation:

CAR07, CAR08 and CL18

The details of these issues and how they are resolved can be seen in **Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests**

The following clarification requests were raised during the verification of the baseline emissions, project emissions and net GHG emission reductions:

CL13, CL16, CL17 and CL19.

The details of these issues and how they are resolved can be seen in **Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests**

re-consult Ltd. hereby confirms that the above mentioned generation figures and GHG emission reduction calculations are quantified correctly and are in accordance with the monitoring methodology ACM0002 /D04/ and the monitoring plan given in the registered PD /D09/.

4.3 Quality of Evidence to Determine GHG Emission Reductions or Removals

The GHG Emission Reductions are a function of the net electricity generated and fed into the grid by the project activity and the combined margin emission factor which is determined during validation for the whole crediting period. According to the Validation Report by Rina Services S.p.A. /D10/ dated 23 April 2014, the combined margin emission factor is validated and will remain the same for the first crediting period of 10 years.

The evidence used for calculation of project emissions are the name plates of the generators which include the installed capacity of both Murat I and Murat II HEPPs. The validity of these name plates were assessed during the site visit.

The max lake area is determined through topographical surveys which was already validated during the validation site visit. During the verification site visit the regulator area is observed and it is verified that the surface area of the regulation pond can not be higher than the maximum calculated value because of the water spillages.

Therefore the only parameter that needs to be closely verified is the net electricity generation. This value is taken from the PMUM records. The PMUM records for each day has been submitted to and reviewed by the verification DOE. During the site visit, the PMUM records are also reviewed through the online system.

To cross-check the PMUM data OSF forms for every month is submitted to and reviewed by the verification DOE. The OSF Forms include hourly generation figures of the plant. This data was cross-checked with the data from PMUM records. When there were discrepancies PMUM records were accepted as PMUM is the legal entity responsible for the regulation of the market.

CL13 was raised regarding the evidence for the data used in calculation of GHG emission reductions. The details of this clarification request and how it is resolved can be seen in **Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests**

Please identify the evidence used to determine the GHG emission reductions and removals and describe the steps taken to assess the sufficiency of quantity, and appropriateness of quality, of the evidence.

Please include details of any cross-checks performed on the reported data and how the following

re-consult Ltd. hereby confirms that the evidence used to determine the GHG emission reductions are sufficient in quantity and appropriate in quality.

4.4 Non-Permanence Risk Analysis

Not Applicable.

5 VERIFICATION CONCLUSION

re-consult Ltd. has performed the 1st verification of VCS “MURAT HEPP PROJECT” which is a project with the registry reference number “1344” for the period between 05 October 2012 and 30 September 2014. The scope of the activities cover the verification and certification of GHG emissions reductions reported in Monitoring Report Version 6 dated 17 February 2015 of “MURAT HEPP PROJECT” /D37/..

Suen Ltd. are 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 PD. 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 both Suen Ltd. and 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 6.

The verification has been performed by a verification team consisting of “Hande SEZER YILMAZ and Anıl SÖYLER”, 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 VCS Organization, CDM Validation and Verification Standard version 07.0 /D01/, CDM Project Standard version 07.0 /D02/, CDM Project Cycle Procedure version 07.0 /D03/ and VCS version 3 /D06/ .

re-consult Ltd. hereby confirms that the project activity “Murat HEPP Project” in Turkey, is implemented in accordance with the validated and registered PD version 04 dated 19 February 2013 /D09/.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 13.0 /D04/.

re-consult confirms the following based on the results of document review and on-site assessment for the period between 05 October 2012 and 30 September 2014:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2012	21,082	0	0	21,082
2013	106,907	0	0	106,907
2014	26,890	0	0	26,890
Total	154,879	0	0	154,879



Hande SEZER YILMAZ
Team Leader
13/03/ 2015



Praveen PYATA
ITR
13/03/2015



Anıl SÖYLER
Certification Manager
13/03/2015

ANNEX 1: VERIFICATION PROTOCOL

Table 1 – VCS Monitoring Report (MR) Form Requirements

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
Cover Page and General Requirements					
1. Are all items in the box at the bottom of the cover page completed using Arial 10pt, black, regular (non-italic) font?	VCS Std. Version 3.4	DR	The items in the box at the bottom of the cover page of the monitoring report are not fully compliant with the formatting requirements of VCS monitoring report.	CL01	OK
2. Are the followings provided at the cover page in a tabular format?	VCS Std. Version 3.4				
2.1. Name of the project?	VCS Std. Version 3.4	DR	The name of the project is provided at the cover page in a tabular format as "Murat HEPP Project"	OK	OK
2.2. Version number of the VCS MR?	VCS Std. Version 3.4	DR	The version number of the VCS MR is provided at the cover page in a tabular format as "01"	OK	OK
2.3. Report ID of the document	VCS Std. Version 3.4	DR	The report ID of the document is not provided on the cover page.	CL02	OK
2.4. The issuance date of the document in DD-Month-YYYY format?	VCS Std. Version 3.4	DR	The issuance date of the document is provided at the cover page in a tabular format as "25/09/2014"	OK	OK
2.5. VCS project database ID, if registered	VCS Std. Version 3.4	DR	The VCS Project Database ID of the Project is not provided on the cover page.	CL03	OK
2.6. Monitoring period in DD-Month-YYYY to DD-Month-YYYY format	VCS Std. Version 3.4	DR	The monitoring period of the project is provided at the cover page however it is not given in the same format as requested by the VCS Monitoring Report.	CL04	OK
2.7. Individual or entity that prepared the document?	VCS Std. Version 3.4	DR	The individual or entity that prepared the document is given as "Suen Ltd." at the cover page in a tabular format.	OK	OK
2.8. Physical address, telephone, email, website?	VCS Std. Version 3.4	DR	The physical address, telephone and website are provided however the e-mail is not provided.	CL05	OK
3. Is this box available on the title page of the final document?	VCS Std. Version 3.4	DR	The box is not available on the title page of the monitoring report version 01 dated 25/09/2014.	CL06	OK
4. Is there "Table of Contents" in the VCS MR?	VCS Std. Version 3.4	DR	Yes, the monitoring report has a TOC.	OK	OK

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

v3.2

R-E-C-024 / 24.07.2014 – 05

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
5. Is the VCS MR used as a basis for verification prepared in accordance with the latest template and guidance from the VCS?	VCS Std. Version 3.4	DR	Yes, the monitoring report is in accordance with the latest template and guidance from the VCS which is version 3.3.	OK	OK
6. Are the VCS MR and other documents required under the VCS Program in English?	VCS Std. Version 3.4	DR	Yes, all the submitted documents are in English.	OK	OK
1. PROJECT DETAILS					
1.1. Summary Description of the Implementation Status of Project					
1.1.1. Has a brief summary of the project description provided under Section 1.1 of the MR?	VCS Std. Version 3.4 CDM-MR-FORM version 4.0	DR	A brief summary of the project description is provided under section 1.1 of the monitoring report version 1.	OK	OK
1.1.2. Has the purpose of the project activity and the measures taken to reduce greenhouse gas emissions been provided under section 1.1 of the MR?	VCS Std. Version 3.4 CDM-MR-FORM version 4.0	DR	The purpose of the project activity is given as follows: "The purpose of the project activity is to generate electricity and supply it into the public grid."-OK Please clarify the baseline scenario and project scenario given under section 1.1 of the MR.	CL07	OK
1.1.3. Has a brief description of the installed technology and equipment been provided under Section 1.1 of the MR?	VCS Std. Version 3.4 CDM-MR-FORM version 4.0	DR	A brief description of the installed technology and equipment has not been provided under section 1.1 of the Monitoring Report Version 01.	CAR01	OK
1.1.4. Has the relevant dates for the project activity (e.g. construction, commissioning, continued operation periods, etc.) been provided under Section 1.1 of the MR?	VCS Std. Version 3.4 CDM-MR-FORM version 4.0	DR	The relevant dates for the project activity (e.g. construction, commissioning, continued operation periods, etc.) has not been provided under Section 1.1 of the Monitoring Report version 01.	CAR02	OK
1.1.5. Has the total emissions reductions achieved in this monitoring period been provided under Section 1.1 of the MR?	VCS Std. Version 3.4 CDM-MR-FORM version 4.0	DR	The total emissions reductions achieved in this monitoring period has not been provided under Section 1.1 of the Monitoring Report version 01.	CAR03	OK

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

v3.3

R-E-C-024 / 24.07.2014 – 05

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
1.2. Sectoral Scope and Project Type					
1.2.1. Is it indicated whether this a grouped project under Section 1.2 of the MR?	VCS Std. Version 3.4	DR	The project is not a grouped project and this is indicated under section 1.2 of the Monitoring Report version 01.	OK	OK
1.2.2. Is the sectoral scope(s) applicable to the project indicated?	VCS Std. Version 3.4	DR	The project is included in the sectoral scope 1 "Energy Industries-Renewable Energy". This is also indicated under section 1.2 of the Monitoring Report version 01.	OK	OK
1.2.3. Is the category of the project activity specified?	VCS Std. Version 3.4	DR	The project is not an AFOLU project hence this question is N/A.	OK	OK
1.3. Project Proponent					
1.3.1. Are the contact information for the project proponent(s) provided in the tabular format?	VCS Std. Version 3.4	DR	The contact information for the project proponent is given under section 1.3 of the Monitoring Report version 01.	OK	OK
1.4. Other Entities Involved in the Project					
1.4.1. Are the contact information and roles/responsibilities for any other entities involved in the development of the project provided?	VCS Std. Version 3.4	DR	The contact information of the project consultants Suen Ltd. Is given under section 1.4 of the Monitoring Report version 01.	OK	OK
1.5. Project Start Date					
1.5.1. Is the project start date (the date on which the project began reducing or removing GHG emissions) indicated in day, month and year format?	VCS Std. Version 3.4	DR	The project start date is given as 05 October 2012 which is the date of starting electricity generation. The start date of the project activity is consistent with the start date validated by the validation DOE RINA S.p.A. which was validated according to the provisional acceptance of the project activity dated 17/10/2012 by the Ministry of Energy and Natural Resources of Turkey. Please also submit the evidence document that proves the start	CL08	OK

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

v3.3

R-E-C-024 / 24.07.2014 – 05

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
			date of the project activity.		

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
1.6. Project Crediting Period					
1.6.1. Is the total crediting period including the day, month and year for the start and end dates and the total number of years indicated?	VCS Std. Version 3.4	DR	Under section 1.6 of the Monitoring Report version 01 the following information is given: Start date of the first crediting period: 05 October 2012 End date of the first crediting period: 04 October 2012 First crediting period is ten years which may be renewed once making a total crediting life of twenty years.	OK	OK
1.7. Project Location					
1.7.1. Has complete information on the location of the project activity, including town, city, country and GPS coordinates been provided under Section 1.7 of the MR?	VCS Std. Version 3.4	DR	The location of the project activity is given as GPS coordinates however the town, city and country is not given in section 1.7 of the Monitoring Report version 01. Also the 3 .kmz files given in the monitoring report version 01 cannot be opened.	CAR04	OK
1.8. Title and Reference of Methodology					
1.8.1. Is the following information provided regarding the methodology(s) applied to the project?	VCS Std. Version 3.4				
1.8.1.1. The title of the methodology(ies)	VCS Std. Version 3.4	DR	The title of the applied methodology is provided under section 1.8 of the Monitoring Report version 01.	OK	OK
1.8.1.2. The reference of the methodology(ies)	VCS Std. Version 3.4	DR	The reference of the applied methodology is provided under section 1.8 of the Monitoring Report version 01.	OK	OK
1.8.1.3. The version number of the methodology(ies)	VCS Std. Version 3.4	DR	The version number of the applied methodology is provided under section 1.8 of the Monitoring Report version 01.	OK	OK
1.8.2. Is the following information provided regarding the tool(s) applied to the project?	VCS Std. Version 3.4				
1.8.2.1. The title of the methodology(ies)	VCS Std. Version 3.4	DR	The title of the applied tools are provided under section 1.8 of the Monitoring Report version 01.	OK	OK
1.8.2.2. The version number of the	VCS Std. Version 3.4	DR	The version number of the applied tools are provided under section	OK	OK

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

v3.3

R-E-C-024 / 24.07.2014 – 05

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
methodology(ies)			1.8 of the Monitoring Report version 01.		
1.9. Other Programs					
1.9.1. Does the project reduce GHG emissions from activities that are included in an emissions trading program; or take place in a jurisdiction or sector in which binding limits are established on GHG emissions?	VCS Std. Version 3.4	DR	No, the project does not reduce GHG emissions from activities that are included in an emissions trading program; or take place in a jurisdiction or sector in which binding limits are established on GHG emissions.	OK	OK
1.9.2. If the project reduces GHG emissions from activities that are included in an emissions trading program; or takes place in a jurisdiction or sector in which binding limits are established on GHG emissions, have the PPs provided evidence on the following?	VCS Std. Version 3.4				
1.9.2.1. the reductions or removals generated by the project have or will not be used in the emissions trading program	VCS Std. Version 3.4	DR	The checklist question is N/A. Please see the findings for checklist question 1.9.1	OK	OK
1.9.2.2. for the purpose of demonstrating compliance with the binding limits that are in place in that jurisdiction or sector	VCS Std. Version 3.4	DR	The checklist question is N/A. Please see the findings for checklist question 1.9.1	OK	OK
1.9.3. Have the project(s) created other forms of environmental credit (for example renewable energy certificates)?	VCS Std. Version 3.4	DR	No, the project has not created any other forms of environmental credits.	OK	OK
1.9.4. If the project(s) created other forms of environmental credit (for example renewable energy certificates), has the PPs provided all relevant information about the GHG-related environmental credit and the related program?	VCS Std. Version 3.4	DR	The checklist question is N/A. Please see the findings for checklist question 1.9.3.	OK	OK
1.9.5. Have all other programs under which the project is eligible to participate (to create another form of GHG-related environmental credit) been listed?	VCS Std. Version 3.4	DR	The checklist question is N/A. Please see the findings for checklist question 1.9.3.	OK	OK
1.9.6. Have the project(s) indicate whether the project has been registered, or is seeking	VCS Std. Version 3.4	DR	It is indicated under section 1.9 of the Monitoring Report that the project has not been registered or is seeking registration under any other GHG programs. This was also verified via checking the Gold	OK	OK

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

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registration under any other GHG programs?			Standard Registry as it is the only applicable voluntary standard that is used in the host country.		
1.9.7. If the project has been registered, or is seeking registration under any other GHG programs, have the PPs provided the registration number and details?	VCS Std. Version 3.4	DR	The checklist question is N/A. Please see the findings for checklist question 1.9.6.	OK	OK
2. IMPLEMENTATION STATUS					
2.1. Implementation Status of The Project Activity					
2.1.1. Has a description of the implementation and operational status of the project as of this monitoring period been provided under section 2.1 of the MR?	CDM-MR-FORM version 4.0	DR	It is indicated under section 2.1 of the monitoring report version 01 that the project has commenced operation in 05/10/2012.	OK	OK
2.1.2. Has the installed technology(ies), technical process and equipment, including the diagrams, where appropriate, been included in section 2.1 of the MR?	CDM-MR-FORM version 4.0	DR	Please include a flow diagram showing the location of the turbines and the installed technologies under section 2.1 of the Monitoring Report. Please also include a more detailed description of the equipment and technology used in the Project.	CAR05	OK
2.1.3. Has the starting date of operation of the project activity been provided under Section 2.1 of the MR?	EB79 Report Annex 3 §248-b	DR	The starting date of the operation of the activity has been provided as 05 October 2014 under section 2.1 of the Monitoring Report version 01.	OK	OK
2.1.4. Does the project activity consist of more than one site?	EB79 Report Annex 3 §248-b	DR	No, the Project activity only consists of one site.	OK	OK
2.1.5. 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 2.1 of the MR?	EB79 Report Annex 3 §248-b	DR	The checklist question is N/A. Please see the findings for checklist question 2.1.4.	OK	OK
2.1.6. Is the implementation of the project activity planned to be realized in different phases? (Phased implementation)	EB79 Report Annex 3 §248-b	DR	No the implementation of the Project activity is finalized already.	OK	OK
2.1.7. If the implementation of the project activity	EB79 Report	DR	The checklist question is N/A. Please see the findings for checklist question 2.1.6.	OK	OK

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planned to be realized in different phases, has the progress of the proposed VCS project activity achieved in each phase been indicated under Section 2.1 of the MR?	Annex 3 §248-b				
2.1.8. Has a brief description of the events or situations that occurred during the monitoring period, which may affect the applicability of the methodology been provided under Section 2.1 of the MR?	EB79 Report Annex 3 §248-c	DR	It is stated under section 2.1 of the monitoring report as follows: <i>"Power plant operated normally during this monitoring period. There have been no emergencies happened to the monitoring system in this monitoring period. No critical equipment exchange that was performed during the monitoring period. No faulty measurement or no measurement differences between the meters occurred. Therefore, no calibration happened."</i>	OK	OK
2.1.9. Has a brief description of how the issues resulting from these events or situations are being addressed been provided under Section 2.1 of the MR?	EB79 Report Annex 3 §248-c	DR	The checklist question is N/A. Please see the findings for checklist question 2.1.8.	OK	OK
2.1.10. Do the actual project activity and its operation comply with the registered PD and/or an approved revised PD?	EB79 Report Annex 4 §271 §275	DR	~~This section will be reviewed during the site visit.~~ During the site visit it was confirmed that the actual Project activity and its operation is in compliance with the registered VCS PD.	OK	OK
2.1.11. Have the PPs implemented and operated the VCS project activity as per the descriptions contained in the registered PD?	EB79 Report Annex 4 §271	DR	~~This section will be reviewed during the site visit.~~ The PPs have implemented and operated the VCS Project activity as per the descriptions contained in the registered PD.	OK	OK
2.1.12. Has the installed technology(ies), technical process and equipment, including the diagrams, where appropriate, been included in Section 2.1 of the MR?	CDM-MR-FORM version 4.0	DR	Please include a flow diagram showing the location of the turbines and the installed technologies under section 2.1 of the Monitoring Report. Please also include a more detailed description of the equipment and technology used in the Project.	CAR05	OK
2.1.13. Are there any other changes (e.g. to project proponent or other entities) with respect to the registered project?	VCS Std. Version 3.4	DR	The Project proponent and the other entities involved is the same as the ones given in the registered VCS PD.	OK	OK
2.2. Deviations					
2.2.1. Methodology Deviations					

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2.2.1.1. Are there any deviations from the methodology? •	VCS Std. Version 3.4	DR	It is stated under section 2.2.1 of the Monitoring Report two deviations from the monitoring plan has realized during the monitoring period. The deviations identified does not negatively impact the conservativeness of the quantification of GHG emission reductions. The deviations relate to the source of information for the monitoring parameters, as the sources of information identified in the registered VCS PD are not available. Which is mainly a deviation from the data collection procedures, and does not relate to any other part of the methodology.	OK	OK
2.2.1.2. If there are any deviations from the methodology, are these deviations described properly?	VCS Std. Version 3.4	DR	The deviations are described as follows: • The source of the parameter “Quantity of net electricity generation supplied by the Project plant/unit to the grid in year y” was given as “Monthly Meter Reading Protocols” in the VCS PD. However, since TEIAS started to measure the produced electricity remotely, Monthly Meter Reading Protocols are not available. Therefore, the source of the parameter is defined as “Market Financial Settlement Center (PMUM) records which includes the exact electricity productions and tractions. PMUM records are the basis of the invoices made out to TEIAS. • The source for the cross-check of the amount of produced electricity is also revised as “OSF Forms” which are prepared by TEIAS after the remote measurements of the meters and sent to the plant engineer by e-mail at the end of each month.	OK	OK
2.2.1.3. If there are any deviations from the methodology, are these deviations justified properly and clearly?	VCS Std. Version 3.4	DR	The deviations are justified properly as can be seen in the comments of checklist question 2.2.1.2 above.	OK	OK
2.2.2. Project Description Deviations					
2.2.2.1. Are there any deviations from the registered project description?	VCS Std. Version 3.4	DR	Yes, the installed capacity is lower than the one given in the registered PD. The change does not effect the applicability of the methodology or the baseline scenario. Please include a detailed description in the monitoring report on how this deviation does not effect the additionality of the project activity. Although the installed capacity is lower the project has	CL09	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
			generated more than the projected value in the year 2013. Please clarify.		
2.2.2.2. If there are any deviations from the project description, are these deviations described properly?	VCS Std. Version 3.4	DR	The deviation from the project description only includes the change in installed capacity of the project activity and this is clearly defined under section 2.2.2 of the monitoring report version 01.	OK	OK
2.2.2.3. If there are any deviations from the project description, are these deviations justified properly and clearly?	VCS Std. Version 3.4	DR	It is stated under section 2.2.2 of the monitoring report version 01 that the change in the capacity is due to the design requirements of the OEM company. Please clarify the reason for change giving detailed information and proper justification and send any related documents to the verification team.	CL10	OK
2.2.2.4. Is the outcome of the deviation from the project description provided?	VCS Std. Version 3.4	DR	The outcome of the deviation from the project description is not provided.	CAR06	OK
2.3. Grouped Projects					
2.3.1. Is this a grouped project?	VCS Std. Version 3.4	DR	The project is not a grouped project hence the checklist question is N/A.	OK	OK
2.3.2. If it is a grouped project, is the relevant information about new instances of the project activity(s) provided?	VCS Std. Version 3.4	DR	The project is not a grouped project hence the checklist question is N/A.	OK	OK
2.3.3. If it is a grouped project, is it demonstrated clearly and transparently that each new instance of the project activity(s) meets the eligibility criteria set out in the project description?	VCS Std. Version 3.4	DR	The project is not a grouped project hence the checklist question is N/A.	OK	OK
3. DATA AND PARAMETERS					
3.1. Data and Parameters Available at Validation					
3.1.1. 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 3.1 using the tabular format?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	In the monitoring report version 01, the only data given under section 3.1 is the baseline emission factor of the electricity grid (EFgrid, CM,y). This is not consistent with the registered PD. Please revise this section to be in line with the given data and parameters available at validation in the registered PD.	CAR07	OK

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3.1.2. 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 4.0 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR07 is resolved.~~ Yes the listed data include all the parameters used to calculate the baseline, project and leakage emissions as well as other relevant parameters required by the approved methodology and the monitoring plan.	OK	OK
3.1.3. In the data/parameter tables provided under Section 3.1 of the MR, for each data has the name of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR07 is resolved.~~ Yes, in the data/parameter tables provided under Section 3.1 of the MR v02, for each data the name of the data/parameters are given in accordance with the registered VCS PD and the applied approved methodology.	OK	OK
3.1.4. In the data/parameter tables provided under Section 3.1 of the MR, for each data has the unit of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR07 is resolved.~~ Yes, the unit of the data/parameters are given in accordance with the registered VCS PD and the applied approved methodology, in the MR version 02.	OK	OK
3.1.5. In the data/parameter tables provided under Section 3.1 of the MR, for each data has the description of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR07 is resolved.~~ Yes, the description of the data/parameters are given in accordance with the registered VCS PD and the applied approved methodology in the MR version 02..	OK	OK
3.1.6. In the data/parameter tables provided under Section 3.1 of the MR, for each data has the source of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR07 is resolved.~~ Yes, the source of the data/parameters are given in accordance with the registered VCS PD and the applied approved methodology in the MR version 02..	OK	OK
3.1.7. In the data/parameter tables provided under Section 3.1 of the MR, for each data has the values applied of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR07 is resolved.~~ In the data/parameter tables provided under section 3.1 of the MR, values applied for some of the parameters are not included in the MR version 02. Please revise the Monitoring Report to include the values applied for the parameters listed below: <u>EG_y</u>: Value applied is given as Table 12 however there is no table 12 in the MR version 02. <u>Electricity Imports</u>: Value applied is given as Table 12 however there is no table 12 in the MR version 02.	CL18	OK

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			<u>Heat Value</u>: Value applied is given as Table 11 however there is no table 11 in the MR version 02. <u>NCV_{LV}</u>: Value applied is given as Table 11 however there is no table 11 in the MR version 02. <u>EF_{CO2i,y}</u>: Value applied is given as Table 14 and Table 15 however there is no table 14 and 15 in the MR version 02. <u>Capacity additions</u>: Value applied is given as Annex 3 baseline information, however there is no Annex 3 in the MR version 02.		
3.1.8. In the data/parameter tables provided under Section 3.1 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 4.0 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR07 is resolved.~~ Please see CAR08.	CAR08	OK
3.2. Data and Parameters Monitored					
3.2.1. Has all the data that are monitored been listed under Section 3.2 using the tabular format?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	All the data that is monitored is listed under section 3.2 of the Monitoring Report version 01 using the tabular format.	OK	OK
3.2.2. In the data/parameter tables provided under section 3.2 of the MR, for each data has the name of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	<u>1st Parameter “EG_{Facility,V}”</u>: The parameter name is consistent with the methodology, in the VCS PD this parameter is given as EG_{PJ,y}. The parameter name is consistent with the methodology, however it is not consistent with the registered VCS PD. However, as the parameter name is correct according to the methodology, no further clarification is requested from the project proponent. <u>2nd Parameter “Cap_{PJ}”</u>: The parameter name is consistent with both the registered VCS PD and the applied methodology. <u>3rd Parameter “A_{PJ}”</u>: The parameter name is consistent with both the registered VCS PD and the applied methodology.	OK	OK
3.2.3. In the data/parameter tables provided under section 3.2 of the MR, for each data has the unit of the data/parameters given in accordance with the registered VCS PD and	CDM-MR-FORM version 4.0 VCS Std.	DR	<u>1st Parameter “EG_{Facility,V}”</u> : The unit of the parameter is given as MWh both in the Monitoring Report version 01 and the registered VCS PD, however this unit is not consistent with the applied methodology. Please clarify.	CL11	OK

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the applied approved methodology?	Version 3.4		<u>2nd Parameter “Cap_{PJ}”:</u> The unit of the parameter is given as MW both in the Monitoring Report version 01 and the registered VCS PD, however this unit is not consistent with the applied methodology. Please clarify. <u>3rd Parameter “A_{PJ}”:</u> The unit of the parameter is consistent with the applied methodology, but it is not consistent with the registered VCS PD. However, as the unit of the parameter is correct according to the methodology, no further clarification is requested from the project proponent.		
3.2.4. In the data/parameter tables provided under section 3.2 of the MR, for each data has it been described how the data is monitored?	CDM-MR-FORM version 4.0 VCS Version 3.4	DR	<u>1st Parameter “EG_{Facility.v}”:</u> Continuous measurement and monthly recording <u>2nd Parameter “Cap_{PJ}”:</u> The data will be taken from the name plates of the generators. This is a default value that is determined by the supplier of the generators. <u>3rd Parameter “A_{PJ}”:</u> The parameter is determined by measurement.	OK	OK
3.2.5. In the data/parameter tables provided under section 3.2 of the MR, for each data has the source of data been indicated (like logbooks, daily records, surveys, etc.)?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	<u>1st Parameter “EG_{Facility.v}”:</u> Source of data is given as PMUM (Market financial conciliation center) records. <u>2nd Parameter “Cap_{PJ}”:</u> The source of data is given as project site. <u>3rd Parameter “A_{PJ}”:</u> The source of data is given as project site.	OK	OK
3.2.6. In the data/parameter tables provided under section 3.2 of the MR, for each data has the estimated values of the monitoring parameter been indicated?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	<u>1st Parameter “EG_{Facility.v}”:</u> 32,354.36 MWh for 2012 164,101.61 MWh for 2013 40,825.98 MWh for the first 8 Months of 2014 <u>2nd Parameter “Cap_{PJ}”:</u> 35.478 MWe <u>3rd Parameter “A_{PJ}”:</u> 640,471.91 m²	OK	OK
3.2.7. In the data/parameter tables provided under section 3.2 of the MR, for each data has the	CDM-MR-FORM	DR	<u>1st Parameter “EG_{Facility.v}”:</u> The QA/QC procedures for this parameter is given as “As per “Tool calculate the emission factor for an	CL12	OK

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QA/QC procedures being applied been given?	version 4.0 VCS Std. Version 3.4		<i>electricity system” and also cross-check measurement with on-site records.” Please clarify with which on-site records the parameter is cross-checked.</i> <u>2nd Parameter “Cap_{PJ}”:</u> The QA/QC procedure is given as “Supplier information on the equipment and existence of the equipment will be checked.”-OK <u>3rd Parameter “A_{PJ}”:</u> The QA/QC procedure is given as “The technical drawing of the regulator area obtained from final design of the project is computerized and the potential lake area for the flood discharge (possible maximum water level) is calculated.”-OK		
3.2.8. In the data/parameter tables provided under section 3.2 of the MR, for each data has the purpose of data been given?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	Purpose of data is not given for any of the monitored parameters.	CAR08	OK
3.2.9. If applicable, has the calculation method, including any equations, used to establish the data/parameter been given?	VCS Std. Version 3.4	DR	Calculation method for the parameter EG _{Facility,y} is given under section 3.2 of the monitoring report version 01.	OK	OK
3.2.10. In the data/parameter tables provided under section 3.2 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 4.0 VCS Std. Version 3.4	DR	The only relevant parameter for this question is EG _{Facility,y} . The checklist questions from 3.2.10.1 to 3.2.10.7 are assessed for this parameter only.	OK	OK
3.2.10.1. Details on accuracy class	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	Details on accuracy class is not given in the data parameter table for the parameter EG _{Facility,y}	CAR09	OK
3.2.10.2. The person/entity responsible for the measurement	VCS Std. Version 3.4	DR	The entity responsible for the meters is given as TEIAS which is in line with the standard procedures in the host country.	OK	OK
3.2.10.3. Any standards or protocols to be followed	VCS Std. Version 3.4	DR	The project owner has no control over the meters hence the checklist question is N/A.	OK	OK
3.2.10.4. Calibration frequency	CDM-MR-FORM version 4.0	DR	The frequency of the calibration and the date and validity of the calibration of the meters are not given under section 3.2 of the monitoring report version 1.	CAR10	OK

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	VCS Std. Version 3.4				
3.2.10.5. Serial number	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	Serial Numbers for both meters are given under section 3.2 of the monitoring report.	OK	OK
3.2.10.6. Calibration date	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	The frequency of the calibration and the date and validity of the calibration of the meters are not given under section 3.2 of the monitoring report version 1.	CAR10	OK
3.2.10.7. Validity of the calibration	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	The frequency of the calibration and the date and validity of the calibration of the meters are not given under section 3.2 of the monitoring report version 1.	CAR10	OK
3.2.11. In the data/parameter tables provided under section 3.2 of the MR, for each data has the measurement and recording frequency been indicated?	CDM-MR-FORM version 4.0 VCS Std. Version 3.4	DR	<u>1st Parameter "EG_{Facility,V}": Continuous monitoring and monthly recording.</u> <u>2nd Parameter "Cap_{PJ}": Annually</u> <u>3rd Parameter "A_{PJ}": Annually</u>	OK	OK
3.2.12. Is the calibration frequency for measuring equipment specified in the monitoring methodology, guidance provided by the Board or the monitoring plan?	EB79 Report Annex 4 §286 VCS Std. Version 3.4	DR	Please see CAR10	CAR10	OK
3.2.13. If the calibration frequency for measuring equipment isn't specified in the monitoring methodology, guidance provided by the Board or the monitoring plan, are the equipment calibrated either in accordance with the specifications of the local/national standards, or as per the manufacturer's specification?	EB79 Report Annex 4 §287 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ The frequency of calibration is determined by the national standards, and calibration is the responsibility of TEIAS.	OK	OK
3.2.14. If neither local/national standards nor the manufacturer's specification are available, have the international standards been used?	EB79 Report Annex 4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK

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	§287 VCS Std. Version 3.4				
3.2.15. Is the calibration of the measuring equipment 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?	EB79 Report Annex 4 §282 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Yes the initial calibration of the meters are conducted by a 3 rd party, records of which are provided to the DOE. The calibration is not the responsibility of the PP according to national standards.	OK	OK
3.2.16. 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?	EB79 Report Annex 4 §283 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK
3.2.17. 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?	EB79 Report Annex 4 §283 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK
3.2.17.1. 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 the measuring equipment, or if the error is smaller than the maximum permissible error; or	EB79 Report Annex 4 §283-a VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK
3.2.17.2. Applying the error identified in the delayed calibration test, if the error is beyond the maximum permissible error of the measuring equipment.	EB79 Report Annex 4 §283-b VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK
3.2.18. If calibration is delayed and if the calibration is implemented after the monitoring period in consideration (i.e. the results of delayed	EB79 Report Annex 4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK

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calibration are available) for the certain monitoring period, has the error been applied in following ways?	§284 VCS Std. Version 3.4				
3.2.18.1. The adjusted measured values of the delayed calibration result in fewer claimed emission reductions?	EB79 Report Annex 4 §284-a VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK
3.2.18.2. For all measured values taken during the period between the scheduled date of calibration and the actual date of calibration?	EB79 Report Annex 4 §284-b VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK
3.2.19. If the results of the delayed calibration aren't available, is there any plan to conduct the required calibration?	EB79 Report Annex 4 §285 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK
3.2.20. If the results of the delayed calibration aren't available, have Pss calculated the emission reductions conservatively?	EB79 Report Annex 4 §285 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK
3.2.21. If the results of the delayed calibration aren't available, have post registration requirements been followed by the PPs?	EB79 Report Annex 4 §286 VCS Std. Version 3.4	DR	~~This section will be reviewed after CAR10 is resolved.~~ Checklist question is N/A.	OK	OK
3.2.22. 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 4.0 VCS Std. Version 3.4	DR	The grid emission factor that is used for the baseline calculations is calculated once for the crediting period during validation. Validity of all of the emission factors and related data in the VCS PD are validated by the validation DOE.	OK	OK
3.2.23. In the data/parameter tables provided under section 3.2 of the MR, for each data has	EB79 Report	DR	Purpose of data is not given for any of the monitored parameters.	CAR08	OK

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

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
it been indicated what the data/parameters are used for? (baseline/project /leakage emission calculations)	Annex 3 §251 VCS Std. Version 3.4				
3.2.24. If the data that are monitored been listed under section 3.2 using the tabular format, 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 4.0 VCS Std. Version 3.4	DR	The data listed under section 3.2 of the monitoring report version 01 includes all the parameters that are used to calculate the baseline, project and leakage emissions as well as other relevant parameters required by the approved methodology and the monitoring plan.	OK	OK
3.2.25. Is a complete set of data available for the specified monitoring period?	EB79 Report Annex 4 §290-a VCS Std. Version 3.4	DR	Please send the complete set of PMUM data and the data that is used to cross check the generation figures to the verification team.	CL13	OK
3.3. Monitoring Plan					
3.3.1. Has a description of the monitoring system been provided under Section 3.3 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §250 VCS Std. Version 3.4	DR	A description of the monitoring system is given under section 3.3 of the monitoring report version 01.	OK	OK
3.3.2. Has information about the data collection procedures, including following been provided under Section 3.3 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §250 VCS Std. Version 3.4	DR			
3.3.2.1. Information flow including data	CDM-MR-	DR-SV-I	~~This section will be reviewed after the site visit to better assess~~	OK	OK

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

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
generation	FORM version 4.0 EB79 Report Annex 3 §250 VCS Std. Version 3.4		~~whether the data collection procedures applied have correctly been described in the monitoring report.~~ Information flow including data generation has been provided under section 3.3 of the monitoring report version 02, and the given information is in line with the procedures observed during the site visit.		
3.3.2.2. Data aggregation	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §250 VCS Std. Version 3.4	DR-SV-I	~~This section will be reviewed after the site visit to better assess whether the data collection procedures applied have correctly been described in the monitoring report.~~ Information about data aggregation has been provided under section 3.3 of the monitoring report version 02, and the given information is in line with the procedures observed during the site visit.	OK	OK
3.3.2.3. Data recording	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §250 VCS Std. Version 3.4	DR-SV-I	~~This section will be reviewed after the site visit to better assess whether the data collection procedures applied have correctly been described in the monitoring report.~~ Information about data recording has been provided under section 3.3 of the monitoring report version 02, and the given information is in line with the procedures observed during the site visit.	OK	OK
3.3.2.4. Data calculation	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §250 VCS Std. Version 3.4	DR-SV-I	~~This section will be reviewed after the site visit to better assess whether the data collection procedures applied have correctly been described in the monitoring report.~~ Information about data calculation has been provided under section 3.3 of the monitoring report version 02, and the given information is in line with the procedures observed during the site visit.	OK	OK
3.3.2.5. Data reporting	CDM-MR-FORM version 4.0 EB79 Report Annex 3	DR-SV-I	~~This section will be reviewed after the site visit to better assess whether the data collection procedures applied have correctly been described in the monitoring report.~~ Information about data reporting has been provided under section 3.3 of the monitoring report version 02, and the given information is	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
	§250 VCS Std. Version 3.4		in line with the procedures observed during the site visit.		
3.3.3. Has organizational structure, roles and responsibilities of personnel, and emergency procedures for the monitoring system been provided under section 3.3 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §250 VCS Std. Version 3.4	DR	The organizational structure, roles and responsibilities of the personnel is given under section 3.3 of the monitoring report version 01, however no information given on the emergency procedures for the monitoring system.	CAR11	OK
3.3.4. Regarding to the management and operational system, are the responsibilities and authorities for monitoring and reporting in accordance with the responsibilities and authorities stated in the monitoring plan?	EB79 Report Annex 4 §279-b-iv VCS Std. Version 3.4	DR	The responsibilities and authorities for monitoring and reporting are not in accordance with the ones stated in the monitoring plan given in the registered VCS PD. Please clarify.	CL14	OK
3.3.5. Have quality assurance and quality control procedures been applied in accordance with the monitoring plan?	EB79 Report Annex 4 §279-e VCS Std. Version 3.4	DR	QA/QC procedures applied are in line with the monitoring plan.	OK	OK
3.3.6. Are the procedures for handling internal auditing and non-conformities described?	VCS Std. Version 3.4	DR	Procedures for handling internal auditing and non-conformities are not described under section 3.3. of the Monitoring Report version 01.	CAR12	OK
3.3.7. Where appropriate, are the line diagrams to display the GHG data collection and management system included?	VCS Std. Version 3.4	DR	An organization chart of Murat HEPP is given under section 3.3 of the monitoring report version 01. Please also present a line diagram showing the data collection and management system.	CL15	OK
3.3.8. If the sampling approaches used in the monitoring plan, has the following been included?	VCS Std. Version 3.4	DR	The sampling approach is not used in the monitoring plan. Hence the checklist question is N/A.	OK	OK
3.3.8.1. target precision levels	VCS Std. Version 3.4	DR	The sampling approach is not used in the monitoring plan. Hence the checklist question is N/A.	OK	OK
3.3.8.2. sample sizes	VCS Std. Version 3.4	DR	The sampling approach is not used in the monitoring plan. Hence the checklist question is N/A.	OK	OK
3.3.8.3. sample site locations	VCS Std. Version 3.4	DR	The sampling approach is not used in the monitoring plan. Hence	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit
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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
			the checklist question is N/A.		
3.3.8.4. stratification	VCS Std. Version 3.4	DR	The sampling approach is not used in the monitoring plan. Hence the checklist question is N/A.	OK	OK
3.3.8.5. frequency of measurement and	VCS Std. Version 3.4	DR	The sampling approach is not used in the monitoring plan. Hence the checklist question is N/A.	OK	OK
3.3.8.6. QA/QC procedures	VCS Std. Version 3.4	DR	The sampling approach is not used in the monitoring plan. Hence the checklist question is N/A.	OK	OK
3.3.8.7. Demonstration on whether the required confidence/precision has been met.	CDM-MR-FORM version 4.0	DR	The sampling approach is not used in the monitoring plan. Hence the checklist question is N/A.	OK	OK
3.3.9. Have the monitoring plan and the applied methodology been properly implemented and followed by the PPs?	EB79 Report Annex 4 §274 §278 VCS Std. Version 3.4	DR-SV-I	~~This section will be reviewed after the site visit.~~ Yes, the monitoring plan and the applied methodology has been properly implemented and followed by the PPs.	OK	OK
3.3.10. 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 PD or any accepted revised monitoring plan?	EB79 Report Annex 4 §279-b VCS Std. Version 3.4	DR-SV-I	~~This section will be reviewed after the site visit.~~ Yes, the monitoring of parameters (baseline / project / leakage / emission reduction) in the project activity has been implemented in accordance with the monitoring plan contained in the registered PD.	OK	OK
3.3.11. Have all parameters stated in the monitoring plan, the applied methodology and relevant VCS requirements been sufficiently monitored and updated as applicable?	EB79 Report Annex 4 §279-b VCS Std. Version 3.4	DR-SV-I	~~This section will be reviewed after the site visit.~~ Yes, all parameters stated in the monitoring plan, the applied methodology and relevant VCS requirements have been sufficiently monitored and updated.	OK	OK
3.3.12. Are monitoring results consistently recorded and stored as per the approved frequency?	EB79 Report Annex 4 §279-d VCS Std. Version 3.4	DR-SV-I	~~This section will be reviewed after the site visit.~~ Yes, the monitoring results are consistently recorded and stored for at least 2 years.	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
4. QUANTIFICATION of GHG EMISSION REDUCTIONS and REMOVALS					
4.1. Baseline Emissions					
4.1.1. Has all the formulae used to calculate the baseline emissions been provided under section 4.1 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §256-a EB79 Report Annex 4 §290-c VCS Std. Version 3.4	DR	Yes the formulae used to calculate the baseline emissions has been provided under section 4.1 of the Monitoring Report version 01. However also the formula for calculating the combined margin grid emission factor is presented in the monitoring report version 01, although this formula and calculations related to this formula has been validated by the validation DOE. This formula is also given under section 4.4 of the monitoring report with a slightly different explanation. Please clarify.	CL16	OK
4.1.2. 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 4.1 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §256 VCS Std. Version 3.4	DR	Sample calculation for the baseline emission factor and all calculation tables for the emission reduction calculations for the years 2012, 2013 and 2014 are given under section 4.1 of the Monitoring Report version 01.	OK	OK
4.1.3. Has all electronic spread sheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §256 VCS Std. Version 3.4	DR	All electronic spreadsheets to present full calculations in the monitoring report has been submitted to the DOE.	OK	OK
4.1.4. Have any assumptions used in baseline emission calculations been justified?	EB79 Report Annex 4 §290-d VCS Std. Version 3.4	DR	No assumptions have been used in the calculations of baseline emissions.	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
4.1.5. 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)	EB79 Report Annex 4 §290-e VCS Std. Version 3.4	DR	The grid emission factor that is used for the baseline calculations is calculated once for the crediting period during validation. Validity of all of the emission factors and related data in the VCS PD are validated by the validation DOE.	OK	OK
4.2. Project Emissions					
4.2.1. Has all the formulae used to calculate the project emissions been provided under section 4.2 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §256-b EB79 Report Annex 4 §290-c VCS Std. Version 3.4	DR	The formula that is used to calculate the project emissions have been provided under section 4.2 of the Monitoring Report version 01. However one of the parameter names is given as $PE_{EF,y}$. Please revise the parameter name to be in line with the methodology. However the same formula is given twice under this section. Also under the same section, although it is stated that $PE_{FF,y}$ and $PE_{GP,y}$ are irrelevant with the project activity, an explanation about internal electricity consumption of the project activity is given under the title Fossil fuel consumption ($PE_{FF,y}$) . Please clarify why these two parameters are not relevant to the project activity and how the fossil fuel consumption is correlated with the internal electricity usage of the project activity.	CL17	OK
4.2.2. Has sample calculations for all formulae used and calculation of project emissions or or actual net GHG removals by sinks, applying actual values been provided under section 4.2 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §256-b VCS Std. Version 3.4	DR	Sample calculations are given in the monitoring report version 01.	OK	OK
4.2.3. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §256-b VCS Std. Version 3.4	DR	No electronic spreadsheet is necessary for the calculation of the project emissions as it only involves calculation of one data on an annual basis.	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2.4. Have any assumptions used in project emission calculations been justified?	EB79 Report Annex 4 §290-d VCS Std. Version 3.4	DR	All of the assumptions that are used are justified in the monitoring report version 01.	OK	OK
4.2.5. 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)	EB79 Report Annex 4 §290-e VCS Std. Version 3.4	DR	Not applicable as no emission factor is used.	OK	OK
4.3. Leakage					
4.3.1. Has all the formulae used to calculate the leakage emissions been provided under section 4.3 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §246-c EB79 Report Annex 4 §280-c VCS Std. Version 3.4	DR	According to the applied methodology leakage is negligible, hence the checklist question is N/A.	OK	OK
4.3.2. Has sample calculations for all formulae used and calculation of leakage emissions, applying actual values been provided under section 4.3 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §246-c VCS Std. Version 3.4	DR	According to the applied methodology leakage is negligible, hence the checklist question is N/A.	OK	OK
4.3.3. Has all electronic spread sheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM version 4.0 EB79	DR	According to the applied methodology leakage is negligible, hence the checklist question is N/A.	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
	Report Annex 3 §246-c VCS Std. Version 3.4				
4.3.4. Have any assumptions used in leakage emission calculations been justified?	EB79 Report Annex 4 §290-d VCS Std. Version 3.4	DR	According to the applied methodology leakage is negligible, hence the checklist question is N/A.	OK	OK
4.3.5. 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)	EB79 Report Annex 4 §290-e VCS Std. Version 3.4	DR	According to the applied methodology leakage is negligible, hence the checklist question is N/A.	OK	OK
4.4. Net GHG Emission Reductions and Removals					
4.4.1. Have the total baseline emissions or baseline net GHG removals by sinks during the monitoring period been given under section 4.4 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §256-a VCS Std. Version 3.4	DR	Total baseline emissions during the monitoring period is given under section 4.4 of the monitoring report version 01.	OK	OK
4.4.2. Has the total project emissions or actual net GHG removals by sinks during the monitoring period been given under section 4.4 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §256-b VCS Std. Version 3.4	DR	Total project emissions is given as "0"	OK	OK
4.4.3. Has the total leakage emissions during the monitoring period been given under section 4.4 of the MR?	CDM-MR-FORM version 4.0	DR	Leakage is negligible hence the total leakage emissions is given as "0"	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
	EB79 Report Annex 3 §256-c VCS Std. Version 3.4				
4.4.4. Have the total emission reductions or net anthropogenic GHG removals by sinks during the monitoring period been given under section 4.4 of the MR?	CDM-MR-FORM version 4.0 EB79 Report Annex 3 §256-d VCS Std. Version 3.4	DR	Total emission reduction value is given under section 4.4 of the monitoring report.	OK	OK
4.4.5. Are there any material information detected?	EB69 Report Annex 6 §8 §15 §19	DR	~~This section will be reviewed after the site visit and all the evidence documents like PMUM records have been provided to the DOE.~~ Some inconsistencies were found between the values in the monitoring report version 02 and the values in the PMUM records and OSF forms. For details please see CL13-Review 2.	CL13	OK
4.4.6. 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?	EB69 Report Annex 6 §10 §12 §15 §17	DR			
4.4.6.1. 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?	EB69 Report Annex 6 §10	DR	~~This section will be reviewed after the site visit and all the evidence documents like PMUM records have been provided to the DOE.~~ The project's annual emission reductions are lower than 500,000 tons.	OK	OK
4.4.6.2. 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?	EB69 Report Annex 6 §10	DR	~~This section will be reviewed after the site visit and all the evidence documents like PMUM records have been provided to the DOE.~~ The project's annual emission reductions are lower than 300,000 tons.	OK	OK
4.4.6.3. 2 per cent of the emission reductions or removals for large-scale project activities achieving a total emission	EB69 Report Annex 6	DR	~~This section will be reviewed after the site visit and all the evidence documents like PMUM records have been provided to the DOE.~~	OK	OK

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reduction or removal of 300,000 tons of carbon dioxide equivalent per year or less?	§10		The inconsistencies are very minor and does not lead to any overestimation.		
4.4.6.4. 10 per cent of the emission reductions or removals for the microscale project activities?	EB69 Report Annex 6 §10	DR	~~This section will be reviewed after the site visit and all the evidence documents like PMUM records have been provided to the DOE.~~ The project is a large scale project.	OK	OK
4.4.6.5. 5 per cent of the emission reductions or removals for small-scale project activities other than project activities covered under 4.4.6.4 above?	EB69 Report Annex 6 §10	DR	~~This section will be reviewed after the site visit and all the evidence documents like PMUM records have been provided to the DOE.~~ The project is a large scale project.	OK	OK
5. APPENDICES					
5.1. If any further background information regarding any raw data from monitoring is provided, is this information correct and supported by the appropriate evidence?	VCS Std. Version 3.4	DR	~~This section will be reviewed after the site visit.~~ No further information regarding raw data from monitoring is provided in the appendices.	OK	OK
5.2. If any further background information regarding additional information used in the monitoring plan is provided, is this information correct and supported by the appropriate evidence?	VCS Std. Version 3.4	DR	~~This section will be reviewed after the site visit.~~ All the background information provided are assessed to be correct.	OK	OK
5.3. If any further background information regarding documentation of activities conducted from the monitoring plan and diagrams are provided, is this information correct and supported by the appropriate evidence?	VCS Std. Version 3.4	DR	~~This section will be reviewed after the site visit.~~ All the background information provided are assessed to be correct.	OK	OK
6. OTHER REQUIREMENTS					
6.1. Forward Action Requests (FARs) Identified During Validation and/or Previous Verification					
6.1.1. Is there any remaining FARs from the validation and/or previous verification activities?	EB79 Report Annex 4 §28 §258 §268	DR	No FAR has been raised during the validation process, hence the checklist question is N/A.	OK	OK
6.1.2. If there any remaining FARs from the validation and/or previous verification	EB79 Report	DR	No FAR has been raised during the validation process, hence the checklist question is N/A.	OK	OK

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Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
activities, have the PPs addressed these FARs in the MR?	Annex 4 §28 §258 §268				
6.1.3. Has the FARs been resolved?	EB79 Report Annex 4 §28 §258 §268	DR	No FAR has been raised during the validation process, hence the checklist question is N/A.	OK	OK

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

Table 2 – 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	Summary of Project Participants' Response	Verification Team Conclusion
CAR01 A brief description of the installed technology and equipment has not been provided under section 1.1 of the Monitoring Report Version 01.	Q 1.1.3	<u>Response to Review 1:</u> The brief description is provided in table 1 under section 1.1 of the Monitoring Report.	<u>Review 2:</u> A brief description of the installed technology and equipment is given in table 1 in the monitoring report version 02. <u>CAR01 is CLOSED.</u>
CAR02 The relevant dates for the project activity (e.g. construction, commissioning, continued operation periods, etc.) has not been provided under Section 1.1 of the Monitoring Report version 01.	Q 1.1.4	<u>Response to Review 1:</u> The dates are provided.	<u>Review 2:</u> The relevant dates for the project activity are provided under section 1.1 of the monitoring report version 02. <u>CAR02 is CLOSED.</u>
CAR03 The total emissions reductions achieved in this monitoring period has not been provided under Section 1.1 of the Monitoring Report version 01.	Q 1.1.5	<u>Response to Review 1:</u> The emission reductions achieved in the related monitoring period are provided.	<u>Review 2:</u> Total number emission reductions achieved during the monitoring period is given under section 1.1 of the monitoring report version 02 as 154,530.52 tonnes. <u>CAR03 is CLOSED.</u>
CAR04 The location of the project activity is given as GPS coordinates however the town, city and country is not given in section 1.7 of the Monitoring Report version 01. Also the 3 .kmz files given in the monitoring report version 01 cannot be opened.	Q 1.7.1	<u>Response to Review 1:</u> The required corrections are made and the .kmz files are updated.	<u>Review 2:</u> The project activity location is given as Sambayat village of Adiyaman city in the monitoring report version 02, which is also verified during the site visit. The GPS coordinates were also verified during the site visit. <u>CAR04 is CLOSED.</u>
CAR05 Please include a flow diagram showing the location of the turbines and the installed technologies under section 2.1 of the Monitoring Report. Please also include a more detailed description of the equipment and technology used in the Project.	Q 2.1.2 & 2.1.12	<u>Response to Review 1:</u> The required details are provided.	<u>Review 2:</u> A flow diagram showing the location of the turbines and the installed technologies, together with a list of equipment installed is included under section 2.1 of the Monitoring Report version 02. <u>CAR05 is CLOSED.</u>

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

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
CAR06 The outcome of the deviation from the project description is not provided.	Q 2.2.2.4	<u>Response to Review 1:</u> OK, provided as per requested. <u>Response to Review 2:</u> The outcome of the deviation is thoroughly discussed in 2.2.3 of the MR.	<u>Review 2:</u> The outcome of the project description deviation is given as follows in the monitoring report version 02: <i>"Since the installed power is reduced thus resulting the energy output is also reduced too and this does not have an impact on the applicability of the methodology, additionality or the appropriateness of the baseline scenario."</i> However this given outcome contradicts with the response given for CL09. Please discuss the outcome thoroughly under section 2.2.3 of the Monitoring Report. <u>CAR06 is still OPEN.</u> <u>Review 3:</u> The outcome of the deviation is discussed extensively in the Monitoring Report version 03. The effect on applicability of the methodology, baseline scenario and additionality is explained. <u>CAR 06 is CLOSED.</u>
CAR07 In the monitoring report version 01, the only data given under section 3.1 is the baseline emission factor of the electricity grid (EFgrid, CM,y). This is not consistent with the registered PD. Please revise this section to be in line with the given data and parameters available at validation in the registered PD.	Q 3.1.1	<u>Response to Review 1:</u> OK, corrected as per requested.	<u>Review 2:</u> The data and parameters monitored are included in the monitoring report version 02. The included data and parameters are in line with the registered VCS PD. <u>CAR07 is CLOSED.</u>
CAR08 Purpose of data is not given for any of the monitored parameters.	Q 3.2.8- Q 2.2.23	<u>Response to Review 1:</u> OK, the purpose of datas are provided. <u>Response to Review 2:</u> OK, the purpose of data are provided.	<u>Review 2:</u> The given purpose of the data is not in line with the VCS requirements. Please give the purpose of the data as requested by

* 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	Summary of Project Participants' Response	Verification Team Conclusion
		<u>Response to Review 3:</u> OK, the purpose of data are provided. <u>Response to Review 4:</u> OK, the purpose of data are provided.	the VCS Monitoring Report Template. <u>CAR08 is still OPEN.</u> <u>Review 3:</u> According to VCS monitoring report template the purpose of the data shall be one of the following: • Calculation of baseline emissions • Calculation of project emissions • Calculation of leakage The purpose of the data indicated in the Monitoring Report version 03 is not in line with the requirements given in the VCS template. <u>CAR08 is still OPEN.</u> <u>Review 4:</u> The purpose of data is given for all of the parameters. However, the purpose of data given for the parameters CAP_{PJ} and AP_{PJ} are not correct. <u>CAR08 is still OPEN.</u> <u>Review 5:</u> The purpose of data for CAP_{PJ} and AP_{PJ} is given as "calculation of project emissions" which is in line with the methodology. <u>CAR08 is CLOSED.</u>
CAR09 Details on accuracy class is not given in the data parameter table for the parameter EG _{Facility,y}	Q 3.2.10.1	<u>Response to Review 1:</u> OK, the requested details are provided. <u>Response to Review 2:</u>	<u>Review 2:</u> The details on accuracy class is still not given in the data parameter table. <u>CAR09 is still OPEN.</u>

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
		<u>Response to Review 3:</u> OK, the purpose of data are provided. <u>Response to Review 4:</u> OK, the purpose of data are provided.	<u>Review 3:</u> Details on accuracy class of the meter is still not provided in the data/parameter table under section 3.2. of the monitoring report version 03. <u>CAR09 is still OPEN.</u> <u>Review 4:</u> In the response section it is stated as "OK, purpose of data provided" however this CAR is not related to the purpose of data. Please also give reference to the accuracy class of the meters in the monitoring report. Also accuracy class is not related to QA/QC measures of the meter, it is related to the specifications of the monitoring equipment. <u>CAR09 is still OPEN.</u> <u>Review 5:</u> The accuracy class of the meter is included in the monitoring equipment section of the data/parameter table for EG_{PJ,y} in the monitoring report version 5. <u>CAR09 is CLOSED.</u>
CAR10 The frequency of the calibration and the date and validity of the calibration of the meters are not given under section 3.2 of the monitoring report version 1.	Q 3.2.10.4 Q 3.2.10.6 Q 3.2.10.7 Q 3.2.12	<u>Response to Review 1:</u> Awaiting project owner to provide the calibration report of the manufacturer The frequency of technical inspection and calibration of meters are provided with the legal justification via related regulation. <u>Response to Review 2:</u> The calibration reports (prepared by 3rd party- Kesir	<u>Review 2:</u> Calibration report of the manufacturer is still not provided. <u>CAR10 is still OPEN.</u> <u>Review 3:</u> The calibration reports /D19/ and /D20/ are submitted to and reviewed by the DOE. <u>CAR 10 is CLOSED.</u>

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
		Mühendislik) are provided to the DOE.	
CAR11 The organizational structure, roles and responsibilities of the personnel is given under section 3.3 of the monitoring report version 01, however no information given on the emergency procedures for the monitoring system.	Q 3.3.3	<u>Response to Review 1:</u> Regarding the emergency procedure of the monitoring system the backup metering is described.	<u>Review 2:</u> The system of backup metering is clearly explained in the monitoring report version 02. <u>CAR11 is CLOSED.</u>
CAR12 Procedures for handling internal auditing and non-conformities are not described under section 3.3. of the Monitoring Report version 01.	Q 3.3.6	<u>Response to Review 1:</u> The procedures are described.	<u>Review 2:</u> QA/QC procedures are included in Table 3 of the Monitoring Report version 02. <u>CAR12 is CLOSED.</u>
Error! Reference source not found. In the data/parameter tables provided under section 3.1 of the MR, what the data/parameters are used for (baseline/project /leakage emission calculations) has not been indicated in the Monitoring Report version 02. According to the Monitoring Report template all the data/parameter tables shall include a row for the purpose of data.	Q 3.1.8	<u>Response to Review 1:</u> The brief description is provided in table 1 under section 1.1 of the Monitoring Report.	<u>Review 2:</u> A brief description of the installed technology and equipment is given in table 1 in the monitoring report version 02. <u>CAR01 is CLOSED.</u>
CL01 The items in the box at the bottom of the cover page of the monitoring report are not fully compliant with the formatting requirements of VCS monitoring report.	Q 1	<u>Response to Review 1:</u> Corrected. <u>Response to Review 2:</u> OK. <u>Response to Review 3:</u> OK,	<u>Review 2:</u> All the items in the box at the bottom of the cover page are revised and completed using Arial 10pt, black, regular font.-OK Please also correct the following typographical/formatting errors in the Monitoring Report: a. In the cover page the monitoring report title is given as "MONITORING REPORT TITLE" Please include the actual title of the monitoring report. b. The font of the "Table of Contents" is not in line with the VCS requirements of Arial 10pt, black , regular font.

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
			c. Some sections of the MR are highlighted with yellow. <u>CL01 is still OPEN.</u> <u>Review 3:</u> a. The title of the monitoring report is not given in the Monitoring Report version 03. b. The font of the table of contents is corrected, however in the table of contents page the following phrase is left from the VCS MR Template <i>"Insert table of contents"</i> c. There are no yellow highlights in monitoring report version 03.-OK <u>CL01 is still OPEN due to items a and b.</u> <u>Review 4:</u> a. The title of the monitoring report is given in Monitoring Report version 3. b. The table of contents is corrected. <u>CL01 is CLOSED.</u>
CL02 The report ID of the document is not provided on the cover page.	Q 2.3	<u>Response to Review 1:</u> Report ID is added to cover page.	<u>Review 2:</u> The report ID is given as 2011-DG-32-MD in the revised monitoring report. <u>CL02 is CLOSED.</u>
CL03 The VCS Project Database ID of the Project is not provided on the cover page.	Q 2.5	<u>Response to Review 1:</u> VCS Project Database ID is added to cover page.	<u>Review 2:</u> The VCS Project Database ID is given as VCSPD 1344 in the revised monitoring report. Which is also checked to be true from the VCS Project Database. <u>CL03 is CLOSED.</u>
CL04 The monitoring period of the project is provided at the cover page however it is not given in the same format as requested by the VCS Monitoring Report.	Q 2.6	<u>Response to Review 1:</u> Corrected as per clarification request.	<u>Review 2:</u> According to VCS all the dates shall be given in DD-Month-YYYY format. Please

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
		<u>Response to Review 2:</u> OK. <u>Response to Review 3:</u> OK.	revise the dates for both monitoring period and date of issue to be in line with this format. <u>CL04 is still OPEN.</u> <u>Review 3:</u> Date formats are still not in line with the VCS requirements. The dates shall be given in DD-Month-YYYY format, however it is given in DD-MM-YYYY format. <u>CL04 is still OPEN.</u> <u>Review4:</u> The date formats have been corrected in the Monitoring Report. <u>CL04 is CLOSED.</u>
CL05 The physical address, telephone and website are provided however the e-mail is not provided.	Q 2.8	<u>Response to Review 1:</u> Provided.	<u>Review 2:</u> The e-mail address of Suen Ltd. is provided in the cover page. <u>CL05 is CLOSED.</u>
CL06 The box is not available on the title page of the monitoring report version 01 dated 25/09/2014.	Q 3	<u>Response to Review 1:</u> OK.	<u>Review 2:</u> In the revised monitoring report the box is provided in the cover page and all the info notes from the template are deleted. <u>CL06 is CLOSED.</u>
CL07 The purpose of the project activity is given as follows: <i>"The purpose of the project activity is to generate electricity and supply it into the public grid."</i>-OK Please clarify the baseline scenario and project scenario given under section 1.1 of the MR.	Q 1.1.2	<u>Response to Review 1:</u> OK.	<u>Review 2:</u> In the revised monitoring report it is stated as follows: <i>"The project activity reduces greenhouse gas (GHGs) emissions that would have otherwise occurred in the absence of the project activity by avoiding electricity generation from fossil fuel sources."</i> This statement is in line with the baseline

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
			scenario and the project scenario that is stated in the validated VCS PD. <u>CL07 is CLOSED.</u>
CL08 The project start date is given as 05 October 2012 which is the date of starting electricity generation. The start date of the project activity is consistent with the start date validated by the validation DOE RINA S.p.A. which was validated according to the provisional acceptance of the project activity dated 17/10/2012 by the Ministry of Energy and Natural Resources of Turkey. Please also submit the evidence document that proves the start date of the project activity.	Q 1.5.1	<u>Response to Review 1:</u> 17/10/2012 is the date of facsimile of the provisional acceptance protocol of the project activity by the Ministry of Energy and Natural Resources of Turkey which was held and signed on 05/10/2012. The so called protocol is submitted to DOE.	<u>Review 2:</u> The provisional acceptance protocol /D14/ has been submitted to and reviewed by the verification team. <u>CL08 is CLOSED.</u>
CL09 Yes, the installed capacity is lower than the one given in the registered PD. The change does not effect the applicability of the methodology or the baseline scenario. Please include a detailed description in the monitoring report on how this deviation does not effect the additionality of the project activity. Although the installed capacity is lower the project has generated more then the projected value in the year 2013. Please clarify.	Q 2.2.2.1	<u>Response to Review 1:</u> With the installed power 35.478 MW there could be maximum (35.478 MW x 8760 hrs =) 310,787.28 MWh of electricity be generated. However this is the ideal case and in real life due to water flow fluctuations regarding the lower rainfalls and climate changes this is nearly impossible. And as per the FSR and license the expected capacity load factor is below 50% and the annual generation is expected to be realized as 150,390 MWh in average. In 2013, due to above explanation, the energy generation was realized 9.3 % more than expected average. As it was monitored on site the first 9 month values of 2014 was 41,334 MWh (less than one third of the prev. yr.) while within the same period of 2013 it was 147,985 MWh. The change on installed capacity does not necessarily make a dramatic change on the output. It is the water flow rate that effects the energy generation. <u>Response to Review 2:</u> Pls see response to CAR06.	<u>Review 2:</u> Although it is stated here that the change in installed capacity doesn't make a dramatic change on the output, in section 2.2.3 of the Monitoring Report version 02 the outcome of the project description deviation is reflected as follows: "Since the installed power is reduced thus resulting the energy output is also reduced too and this does not have an impact on the applicability of the methodology, additionality or the appropriateness of the baseline scenario." Please include the description given in your response under section 2.2.3 of the monitoring report, and discuss the outcome of this change in project description thoroughly in the Monitoring Report. <u>CL09 is still OPEN.</u> <u>Review 3:</u> The outcome of the change is discussed

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
			extensively in the Monitoring Report version 03. <u>CL09 is CLOSED.</u>
CL10 It is stated under section 2.2.2 of the monitoring report version 01 that the change in the capacity is due to the design requirements of the OEM company. Please clarify the reason for change giving detailed information and proper justification and send any related documents to the verification team.	Q 2.2.2.3	<u>Response to Review 1:</u> To be provided. <u>Response to Review 2:</u> The related justification documents are provided to DOE. <u>Response to Review 3:</u> Corrected as per clarification request.	<u>Review 2:</u> No changes made to the Monitoring Report. <u>CL10 is still OPEN.</u> <u>Review 3:</u> The license revision document is sent to DOE as proof, however no further explanation is provided in the Monitoring Report version 3. Please explain extensively in the monitoring plan why this revision is made. <u>CL10 is still OPEN.</u> <u>Review 4:</u> The explanation on why the installed capacity of the project is changed is given under section 2.2.2 of the Monitoring Report version 4. <u>CL10 is CLOSED.</u>
CL11 1 st Parameter " <i>EG_{Facility.V.}</i> ": The unit of the parameter is given as MWh both in the Monitoring Report version 01 and the registered VCS PD, however this unit is not consistent with the applied methodology. Please clarify. 2 nd Parameter " <i>Cap_{PJ}</i> ": The unit of the parameter is given as MW both in the Monitoring Report version 01 and the registered VCS PD, however this unit is not consistent with the applied methodology. Please clarify.	Q 3.2.3	<u>Response to Review 1:</u> Corrected.	<u>Review 2:</u> Both units are revised according to the methodology. <u>CL11 is CLOSED.</u>

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
CL12 1st Parameter "<i>EG_{Facility,V}</i>". The QA/QC procedures for this parameter is given as "As per <i>Tool calculate the emission factor for an electricity system</i>" and also cross-check measurement with on-site records." Please clarify with which on-site records the parameter is cross-checked.	Q 3.2.7	<u>Response to Review 1:</u> Manual Meter Reading Forms are the on-site records for cross check, and are provided to DOE during on-site visit. <u>Response to Review 2:</u> OK.Done.	<u>Review 2:</u> Please include this information in the data/parameter tables. <u>CL12 is still OPEN.</u> <u>Review 3:</u> The QA/QC procedures for the monitoring parameter is revised and are in line with the practices that were demonstrated during the site visit. <u>CL12 is CLOSED.</u>
CL13 Please send the complete set of PMUM data and the data that is used to cross check the generation figures to the verification team.	Q 3.2.25	<u>Response to Review 1:</u> All the data set was given to DOE digitally on-site. <u>Response to Review 2:</u> Due to the long time and complexity of the resolution procedures of electricity production records inconsistencies at PMUM and the fact that PMUM is the final authorized legal data provider, the PMUM data are treated as the main source of data and at all the calculations of emission reductions PMUM data are used. Although the mentioned inconsistencies are minor. <u>Response to Review 3:</u> Corrected as per requested.	<u>Review 2:</u> The data set of PMUM records has been submitted to and reviewed by the verification team. When reviewing the data sets, some inconsistencies were found between the PMUM values and OSF or Monitoring Report (MR) values. The inconsistencies are listed below: <u>February 2013:</u> The data for self consumption is inconsistent between MR and PMUM/OSF <u>April 2013:</u> The data for gross generation is inconsistent between MR and PMUM/OSF <u>October 2013:</u> The data for both gross generation and self consumption is inconsistent between MR/PMUM and OSF. <u>August 2014:</u> The data for both gross generation and self consumption is inconsistent between MR/OSF and PMUM. <u>September 2014:</u> Net Electricity

* 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	Summary of Project Participants' Response	Verification Team Conclusion
			Generation value is not correct (missing decimal places) <u>CL13 is still OPEN.</u> <u>Review 3:</u> a. <u>February 2013</u>: Self consumption data is still not the same with the data given in PMUM. b. Data is corrected according to PMUM-OK c. PMUM data is accepted-OK d. <u>August 2014</u>: Please send PMUM records for August 2014 as the figures for 30 and 31 August is missing. e. The correction is made in the excel sheet and the monitoring report version 03.-OK <u>CL13 is still OPEN due to items a and d.</u> <u>Review 4:</u> a. The self consumption value for February 2013 is corrected.-OK d. PMUM Records for August 2014 is sent to the DOE. The records are in line with the figures used in the calculations. <u>CL13 is CLOSED.</u>
CL14 The responsibilities and authorities for monitoring and reporting are not in accordance with the ones stated in the monitoring plan given in the registered VCS PD. Please clarify.	Q 3.3.4	<u>Response to Review 1:</u> The consistency with VCS PD is achieved.	<u>Review 2:</u> The responsibilities and authorities for monitoring and reporting are in line with the registered VCS PD. <u>CL14 is CLOSED.</u>
CL15 An organization chart of Murat HEPP is given under section 3.3 of the monitoring report version 01. Please also present a line diagram showing the data collection and management system.	Q 3.3.7	<u>Response to Review 1:</u> OK.	<u>Review 2:</u> A line diagram showing the data collection and management system has been included in the Monitoring Report version

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
			02. CL15 is CLOSED.
CL16 Yes the formulae used to calculate the baseline emissions has been provided under section 4.1 of the Monitoring Report version 01. However also the formula for calculating the combined margin grid emission factor is presented in the monitoring report version 01, although this formula and calculations related to this formula has been validated by the validation DOE. This formula is also given under section 4.4 of the monitoring report with a slightly different explanation. Please clarify.	Q 4.1.1	Response to Review 1: Corrected. Response to Review 2: Corrected as per requested.	Review 2: Under section 4.1 of the monitoring report version 02, it is stated as follows: <i>"The baseline emissions BEy have been calculated in the validated PD as follows</i> $EF_{grid,CM,y} = (0,657 \times 0,5) + (0,643 \times 0,5) = 0.65 \text{ tCO}_2/\text{MWh}"$ The given formula represents the formula for combined margin grid emission factor and does not represent the formula for baseline emissions. Also emission reduction tables are given under this section where they should be given under section 4.4. CL16 is still OPEN. Review 3: Under section 4.1 of the monitoring report version 03 only information about the calculation of baseline emissions is given. CL16 is CLOSED.
CL17 The formula that is used to calculate the project emissions have been provided under section 4.2 of the Monitoring Report version 01. However one of the parameter names is given as $PE_{EF,y}$. Please revise the parameter name to be in line with the methodology. However the same formula is given twice under this section. Also under the same section, although it is stated that $PE_{FF,y}$ and $PE_{GP,y}$ are irrelevant with the project activity, an explanation about internal	Q 4.2.1	Response to Review 1: Corrected. Response to Review 2: Corrected as per requested. Response to Review 3: Corrected as per requested.	Review 2: Please revise the following issues under Section 4.2 and 4.4. of the Monitoring report version 02: a. Under section 4.2 it is stated as follows: <i>"Last, according to the methodology Emission Reductions are calculated as follows:</i>

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
electricity consumption of the project activity is given under the title Fossil fuel consumption ($PE_{FF,y}$). Please clarify why these two parameters are not relevant to the project activity and how the fossil fuel consumption is correlated with the internal electricity usage of the project activity.			$ER_y = BE_y - PE_y - LE_y$ Where: ER_y : Emission reductions in year y (tCO₂e/yr) BE_y : Baseline Emissions in year y (tCO₂e/yr) PE_y : Project Emissions in year y (tCO₂e/yr) LE_y : Leakage Emissions in year y (tCO₂e/yr) As demonstrated above, PE_y and LE_y values are "0" for the proposed project activity. Therefore ER_y is equal to BE_y. " Section 4.2 is only related to project emissions and statements/formulae not related to project emissions shall be given under the relevant sections of the monitoring report. b. Under section 4.2 it is stated as follows: "Fossil fuel consumption ($PE_{FF,y}$) The project internal consumption is for Murat HEPP totalizing (05 October 2012 – 30 September 2014) 0 MWh. This consumption will be satisfied from the self electricity generation when the plants are in operation or from the grid when both plants are not operating. However, this will rarely occur." According to ACM002, the project emissions from fossil fuel consumption is not related to hydropower plants, and internal consumption of the project activity

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
			is not related to fossil fuel use. Also the above statement contradicts with the data showing that project has in fact consumed electricity from the grid. c. The formula and explanation of the formula for project emissions is given twice under section 4.2 of the monitoring report version 02. d. The title of section 4.4 is highlighted in yellow e. Under section 4.4 it is stated as follows: "EGy= Parametreden alınıp yapıştırılacak." <u>CL17 is still OPEN.</u> <u>Review 3:</u> a. Under section 4.2 of the monitoring report version 3 the only information given is the one related to the project emissions. The accuracy of this information was verified during the site visit.-OK b. The mentioned statement is still included in the monitoring report. c. Corrected.-OK d. Corrected.-OK e. Corrected.-OK <u>CL17 is still OPEN due to item b.</u> <u>Review 4:</u> b. The statement has been removed from the Monitoring Report version 4. <u>CL17 is CLOSED.</u>

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
CL18 In the data/parameter tables provided under section 3.1 of the MR, values applied for some of the parameters are not included in the MR version 02. Please revise the Monitoring Report to include the values applied for the parameters listed below: • <u>EG_y</u>: Value applied is given as Table 12 however there is no table 12 in the MR version 02. • <u>Electricity Imports</u>: Value applied is given as Table 12 however there is no table 12 in the MR version 02. • <u>Heat Value</u>: Value applied is given as Table 11 however there is no table 11 in the MR version 02. • <u>NCV_{i,y}</u>: Value applied is given as Table 11 however there is no table 11 in the MR version 02. • <u>EF_{CO2,i,y}</u>: Value applied is given as Table 14 and Table 15 however there is no table 14 and 15 in the MR version 02. <u>Capacity additions</u>: Value applied is given as Annex 3 baseline information, however there is no Annex 3 in the MR version 02.	Q 3.1.7	<u>Response to Review 2:</u> OK. Provided in MR. <u>Response to Review 3:</u> OK. Provided in MR. <u>Response to Review 4:</u> OK. Provided in MR.	<u>Review 3:</u> - It is stated that the value applied is given in Appendix 3 Table 1, however this table gives the total electricity generation and the share of low cost must run resources, this table does not give the net electricity generated and delivered to the grid excluding low cost must run resources. - Value applied is given in Appendix 3, Table 2-OK - It is stated that the value applied is given in Appendix 3, Table 4, however table 4 gives Average CO2 emission factor by fuel types, however heat value shall be related to the amount of heat produced by the consumption of a unit quantity of fuel. - It is stated that the value applied is given in Appendix 3, Table 5, however table 5 gives total capacity additions considered in the BM emission factor calculated however the values for NCV shall be related to the net calorific value of fuels. - It is stated that the value applied is given in Table 4 and Table 5 in Appendix 3-OK - For the parameter "<u>capacity additions</u>" value applied, justification of choice of data, purpose of the data and comments rows are missing in the table. <u>CL18 is still OPEN due to items a, c, d and f.</u>

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
			Review 4: a. The table is corrected.-OK b. OK c. In the revised monitoring report, it is stated that the value applied for "Heat Value" is given in Table 7 in Appendix 3, however table 7 gives the values for "Total Emissions from fuels consumed in Thermal Power Plants 2008-2010" and is not related to "amount of heat produced by the consumption of a unit quantity of fuel types consumed in thermal power plants." d. In the revised monitoring report, it is stated that the value applied for "NCV" is given in Table 7 in Appendix 3, however table 7 gives the values for "Total Emissions from fuels consumed in Thermal Power Plants 2008-2010" and is not related to "net calorific value." e. OK f. The related sections are included in Monitoring Report version 4.-OK <u>CL18 is still OPEN due to items c and d.</u> Review 5: The value applied both for the NCV and the Heat Value is corrected in the monitoring report version 5. The tables in Appendix 3 are also revised to include both the heat values and the NCV's of fuels. <u>CL18 is CLOSED.</u>
CL19 (Raised During ITR) Please revise/clarify the following points that was		<u>Response to Internal Technical Review Round 1:</u>	<u>Review of the PPs Response to ITR Round 1 Findings:</u>

* 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	Summary of Project Participants' Response	Verification Team Conclusion
raised during the internal technical review: a) Under section 2.2.3 of the monitoring report, the given value of net generation both for the year 2013 and 2014 are not in line with other sections of the monitoring report. Please revise the values under section 2.2.3 so that it reflects the correct values. b) Under section 3.2 of the monitoring report, under QA/QC measures for the parameter $EG_{PJ,y}$ it is stated that the meters are first calibrated in 2009. Please also state here for how long this initial calibration is valid. c) Under section 4.1 of the Monitoring Report, the units of Electricity generation (MWh/yr) and Total Baseline Emissions (tCO₂/yr) in the following equation is not correct as the monitoring period covers more than one year: $BE_y = 0.65 \text{ (tCO}_2\text{/MWh)} \times (238,277.19 \text{ (MWh/yr)} - 0) = 154,880.34 \text{ (tCO}_2\text{/yr)}$ d) The units given for both Electricity Generation and Total Emission Reductions under section 4.4 of the Monitoring Report needs clarification as the monitoring period covers more than one year.		a) The values are revised. b) Calibration date is revised according to the correct date on the calibration report. The validity period and the evidence of the validity is also provided from the legal legislation. c) Baseline emissions for (2years) total years has been calculated individually in order to cover a full year period. d) Emission reductions for (2years) total years has been calculated individually in order to cover a full year period of energy generation.	a) In the Monitoring Report version 6, the values under section 2.2.3 are revised. b) In the Monitoring Report Version 6 the information on the initial calibration and the validity of the calibration are revised. The validity of the calibration is also in line with the National Regulation on the Calibration of Metering Equipment Article 9 Clause b. c) The baseline emissions calculations are given as a total figure in the MR version 6. d) Emission reductions are given as a total figure in MR version 6. <u>CL 19 is CLOSED.</u>

ANNEX 2: VERIFICATION TEAM AND ITR COMPETENCE

Hande SEZER YILMAZ, Bsc. in Mining Engineering, has completed her Bachelor degree in Middle East Technical University, Turkey. She has lead auditor certificates in ISO 9001 and ISO 14001. She has about 10 years of professional working experience in various sectors and 5 years of experience in the carbon sector. She has been involved in the validation and/or verification of more than 16 CDM, Gold Standard and VCS greenhouse gas emission reduction projects as a validator/verifier and/or trainee validator/verifier. She has also worked on the development side of GHG emission reduction projects and preparation of several corporate GHG inventories and has experience as a trainer on GHG related subjects like preparation of corporate GHG inventories, climate change and CDM. She has been working as voluntary market projects' team leader/validator/verifier and CDM validator/verifier under observation in the context of re-consult.

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

Praveen PYATA, has B.Sc in Biology and Chemistry from Osmania University and M.Sc in Environmental Science and Technology from Jawaharlal Nehru Technological University in India. He is a certified lead auditor for ISO 14001 and OSHAS 18001; he also successfully completed training modules A, B & C: Foundation in Corporate Responsibility, Stakeholder Engagement and Sustainability Reporting and Module D: Sustainability Assurance Practitioner Training. He has more than twelve years of work experience, initially for six years he worked on waste-to-energy, renewable energy, livestock-agro waste management projects in India supported by UNDP/GEF, Ministry of New and Renewable Energy. Later at TUV SUD he was CDM divisional in charge for South Asia region and until now he was involved in more than 100 CDM, PoA, and Gold Standard, VCS, VER projects as a team leader/technical reviewer / validator / verifier covering the sectoral scopes 1, 13 and 15. He has been working as a contracted team leader, technical reviewer and biomass and renewable energy expert in the context of re-consult.

Annex 2-1: Appointment Certificates

re-consult Rüzgar Enerjisi Danışmanlık İç ve Dış Tic. Ltd. Şti. Bag'ın Plaza Muhsin Yazıcıoğlu Cad. 43/11 TR / 06520 Balgat-Ankara Tel.: 0090-312-287 51 22 Fax: 0090-312-287 33 73	Certificate of Appointment	
	Carbon Department	Page: 1/1

This Certificate of Appointment is given to **Mrs. Hande Sezer YILMAZ** as a confirmation of compliance with internal qualification requirements as follows:

Clean Development Mechanism				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
15-12-2014	15-12-2014	15-12-2014	N/A	15-12-2014

Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
15-12-2014	15-12-2014	15-12-2014	N/A	15-12-2014

Specialty	Regional expertise	Financial expertise	Technical area
N/A	6 and 8	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-consult 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	15-12-2014	
Name	Position	Date	Signature

re-consult Rüzgar Enerjisi Danışmanlık İç ve Dış Tic. Ltd. Şti Bağış Plaza Muhsin Yazıcıoğlu Cad. 43/11 TR / 06520 Balgat-Ankara Tel.: 0090-312-287 51 22 Fax: 0090-312-287 33 73	Certificate of Appointment	
	Carbon Department	Page: 1/1

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

Clean Development Mechanism				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
Under observation 15-09-2014	Under observation 15-09-2014	N/A	N/A	15-09-2014

Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
15-09-2014	15-09-2014	15-09-2014	N/A	15-09-2014

Speciality	Regional expertise	Financial expertise	Technical area
N/A	6,8 and 15	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-consult 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. Christian JOHANNES	General Manager	15-09-2014	
Name	Position	Date	Signature

P-I-C-091 / 30.03.2014 - 02

re-consult Rüzgar Enerjisi Danışmanlık İç ve Dış Tic. Ltd. Şti. Bağış Plaza Muhşin Yazıcıoğlu Cad. 43/11 TR / 06520 Balgat-Ankara Tel.: 0090-312-287 51 22 Fax: 0090-312-287 33 73	Certificate of Appointment Carbon Department	re-consult ready to carbon-counting Page: 1/1
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This Certificate of Appointment is given to **Mr. Praveen PYATA** as a confirmation of compliance with internal qualification requirements as follows:

Clean Development Mechanism				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
10-07-2014	10-07-2014	10-07-2014	10-07-2014	10-07-2014

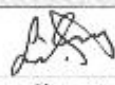
Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
10-07-2014	10-07-2014	10-07-2014	10-07-2014	10-07-2014

Speciality	Regional expertise	Financial expertise	Technical area
N/A	3, 5, 6, 8, 10, 11, 12, 15, 18	10-07-2014	1.1 and 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-consult 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	10-07-2014	
Name	Position	Date	Signature

FA-C-091 / 25.07.2014 - 02