



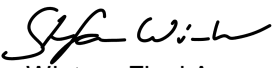
**Validation report form for post-registration changes for  
CDM project activities  
(Version 03.0)**

*Complete this form in accordance with the instructions attached at the end of this form.*

**BASIC INFORMATION**

<b>Title and UNFCCC reference number of the project activity</b>	Catalytic N <sub>2</sub> O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co. UNFCCC ID: 0490
<b>Process track</b>	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
<b>Version number of the validation report</b>	1.0
<b>Completion date of the validation report</b>	06/07/2021
<b>Type(s) of PRCs</b>	<input checked="" type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents <sup>1</sup> <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan <input type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation project activities
<b>Version number of PDD to which this report applies</b>	05.2
<b>Project participants</b>	CARBON Egypt Ltd.; RWE Power AG; CARBON Climate Protection GmbH;
<b>Host Party</b>	Arab Republic of Egypt
<b>Applied methodologies and standardized baselines</b>	ACM0019 Version 04.0 ("N <sub>2</sub> O abatement from nitric acid production") No standardized baselines applicable.
<b>Mandatory sectoral scopes</b>	Sectoral Scope 5 – Chemical industries
<b>Conditional sectoral scopes, if applicable</b>	n/a

<sup>1</sup> Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

<b>Name and UNFCCC reference number of the DOE</b>	E-0022 TÜV NORD CERT GmbH (TÜV NORD)
<b>Name, position and signature of the approver of the validation report</b>	 Stefan Winter - Final Approver

**SECTION A. Executive summary**

Carbon Climate Protection GmbH has commissioned the TÜV NORD JI/CDM Certification Program to carry out the 37<sup>th</sup> periodic verification (which is the 1<sup>st</sup> verification of the 3<sup>rd</sup> crediting period) of the project:

***“Catalytic N<sub>2</sub>O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co.”***

with regards to the relevant requirements for CDM project activities. In the course of this verification a post registration change has been identified for which, in line with para 136 of the CDM project cycle procedure, this PRC validation report has been prepared.

For a detailed project description please refer to the registered PDD and the latest verification report (to which this report is attached).

**SECTION B. Validation team, technical reviewer and approver**

On the basis of a competence analysis and individual availabilities an assessment team, consistent of one team leader and one team member, were appointed. Furthermore also the personnel for the technical review and the final approval were determined.

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

**B.1. Validation team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/Document review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader	EI	Winter	Rainer	-	x	-	x	x
2.	Team Member	EI	Kochaniewicz	Grzegorz	-	x	-	x	x
3.	Technical Expert	EI	Ahmed	Naim	TN Egypt	-	x	x	-

**B.2. Technical reviewer and approver of the validation report on PRCs**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Winter	Stefan	TÜV NORD CERT
2.	Approver	IR	Winter	Stefan	TÜV NORD CERT

**SECTION C. Means of validation****C.1. Desk/document review**

The assessment of post registration changes consisted of the following steps:

- Appointment of team members and technical reviewers
- A desk review of the registered and revised PDD/<sup>PDD</sup> submitted by the client or publicly available and additional supporting documents
- Background investigation and follow-up interviews with personnel of the project developer and its contractors,

- Resolution of corrective actions (CARs / CLs) (if any)
- Final reporting
- Technical review
- Final approval.

In this case, all activities were carried out as part of the 1<sup>st</sup> verification (of the 3<sup>rd</sup> crediting period) of this project activity.

The registered PDD and supporting background documents related to the project design and the post registration changes were reviewed.

## C.2. On-site inspection

Duration of on-site inspection: 31/05/2021 to 01/06/2021				
No.	Activity performed on-site	Site location	Date	Team member / Technical Expert
1.	<i>Check of production site</i> - <i>Main equipment (with focus on changes)</i> - <i>Installed monitoring equipment</i> - <i>Analyser cabinet</i> - <i>Laboratory</i>	AFC	31/05/2021	A. Naim

Due to the COVID-19 pandemic main parts of the verification had to be carried out remotely. For further details please refer to the respective section in the verification report.

## C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Mansour	Mohammed	AFC	31/05/2021 01/06/2021	HNO <sub>3</sub> laboratory analysis	A. Naim, R. Winter, G. Kochaniewicz
2.	Ashour	Fatehy	CARBON Climate Protection GmbH	01/06/2021	General aspects, Monitoring report, ER calculation, Instrumentation, reading and calibration procedure	R. Winter, G. Kochaniewicz
3.	Bichler	Sonja	CARBON Climate Protection GmbH	01/06/2021	General aspects, Monitoring report, ER calculation, Instrumentation, reading and calibration procedure	R. Winter, G. Kochaniewicz
4.	Roshdy	Mahmoud	CARBON Climate Protection GmbH	31/05/2021 01/06/2021	General aspects, Monitoring report, ER calculation, Instrumentation, reading and calibration procedure Site visit	A. Naim, R. Winter, G. Kochaniewicz

**C.4. Sampling approach**

N/A

**C.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised**

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	0	0	0
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents	0	0	0
Corrections	0	0	0
Changes to the start date of the crediting period	0	0	0
Inclusion of a monitoring plan	0	0	0
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents	0	0	0
Changes to the project design	0	0	0
Changes specific to afforestation and reforestation project activities	0	0	0
Others (please specify)	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

No CL, CAR or FAR have been raised as part of this PRC validation. For findings raised during verification please refer to verification report which was submitted along this PRC report.

**SECTION D. Validation findings****D.1. Compliance with PDD form**

<b>Means of validation</b>	Not applicable, as only temporary deviations have occurred and no PDD update was required.
<b>Findings</b>	-
<b>Conclusion</b>	-

**D.2. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents**

Means of validation	Type of change(s):	<input checked="" type="checkbox"/>	Temporary Deviation from Monitoring Plan	
		<input type="checkbox"/>	Temporary Deviation from Monitoring Methodology standardized baselines or other methodological regulatory documents	
	Description of post registration change			
	Start Date: Please provide the start date of the change	15/09/2020	End Date: Please provide the end date of the change, if applicable	31/12/2020 <sup>2</sup>

<sup>2</sup> = End of monitoring period. The deviation remains beyond that date but its end day is not yet known. A corresponding FAR has been raised in the respective verification report.

	<b>Description:</b> Please give a detailed description of the change(s)	<ol style="list-style-type: none"> <li>1. Due to COVID-19 pandemic, travel restrictions were imposed before the due date of the Annual Surveillance Test (AST). Therefore, the AST is considered delayed during the complete monitoring period. The reason is not within the sphere of influence of the PPs.</li> <li>2. The monitoring of the parameter <math>C_{H_2O,tdb,n}</math> has not been carried out as this is to be done alongside with the AST – which has not been carried out due to the COVID-19 pandemic.</li> </ol>
	<b>Assessment of post registration change – Temporary deviations from MP or MM</b>	
	<b>Accuracy:</b> Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.	<ol style="list-style-type: none"> <li>1. EN 14181 defines the scope of the AST to evaluate whether the uncertainty of the measured values obtained from the AMS still meet the uncertainty criteria as determined during the last QAL2. During the AST it is only tested if the uncertainty criteria and the calibration function obtained from the last QAL2 are still valid. As confirmed by AIRTEC<sup>/ARTEC/</sup> (who has carried out the latest QAL2s and ASTs) during an AST <i>“no tests are carried out that could change any values that were determined during the last QAL2 test”</i>. Moreover <i>“From the general experience of previous AST on this system as well as other tested systems, it is known that if</i> <ul style="list-style-type: none"> <li>- there are no relevant changes at the measuring devices between two AST and</li> <li>- the QAL3 tests are carried out properly by the operator,</li> </ul> <i>these criteria can be met without any problems even for an extended AST period.”</i>            As assessed by the verification team no changes to the measuring device since the last AST (conducted during QAL2 test in 2019) have occurred and the QAL3 test were carried out at a frequency as prescribed by the manufacturer which have shown that the AMS was in normal operation mode for the complete period considered as delayed AST performance. However, even though a delayed AST is not to be considered as a delayed calibration the PPs have applied a conservative approach and have basically applied the calculation method as per 9.2.6 of the CDM validation and verification standard for project activities, i.e. to calculate the ER as if the QAL2 itself would have been delayed. The PPs have thus re-calculated the ER by adding the “Expanded combined uncertainty” of the respective parameters (volumetric fraction (1.43%) and volume flow of the gaseous stream (4.02%)), which was determined during the last QAL2. The conservative substitute values were applied starting on 15/09/2020, hour 00:00 until the end of the MP. According to the statement of the         </li> </ol>

		<p>service provider the “Expanded combined uncertainty” of the individual components takes into account the error caused by the measuring point and the device itself as well as the different measuring uncertainty of the SRM- and AMS-measuring methods. Hence, this is the most appropriate and conservative factor for a recalculation.</p> <p>2. On the basis of the following considerations</p> <ol style="list-style-type: none"> <li>The results of the last moisture content measurement before the current monitoring period, which has been performed during the QAL2/AST in 2019, shows a value of 0.002 kg H<sub>2</sub>O/m<sup>3</sup>. This value is only 4% of the methodological threshold value (0.05 kg H<sub>2</sub>O/m<sup>3</sup>),</li> <li>The entity who has carried out all recent QAL2/AST at the Abu Qir plant has provided the following statement related to possible moisture contents: “If no changes are made to the process conditions, in particular to the temperature conditions in the absorption and the subsequent exhaust gas cleaning, no changes to the moisture content are to be expected. Reaching the specified limit value of 0.05 kg/m<sup>3</sup> then can be ruled out.”,</li> <li>No significant changes to the relevant production process have occurred since the last AST,</li> <li>The conservative estimation which has been provided by the PP shows values still below 10 % of the methodological threshold value, the verification team concludes that the assumption that the gaseous stream is to be considered as dry is beyond any reasonable doubt.</li> </ol> <p>To summarize, both discussed temporary deviations are not likely to lead to a reduction of the accuracy of the ER calculation or to an overestimation of GHG emissions.</p>
	<p><b>Conservative-ness:</b></p> <p>Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.</p>	<ol style="list-style-type: none"> <li>The approach taken and described above is considered conservative and to meet the criteria for application for approval of temporary deviations via the issuance track.</li> <li>Even if significant markups to the average result of moisture content measurements that have been achieved during the last years of operation are considered, only about 10% of the methodological threshold value are reached. Therefore considering the measured gas as dry is still appropriate even if very conservative assumptions are applied.</li> </ol>
	<p><b>Appendix PS:</b></p> <p>Check if the changes fall under one of the scenarios of appendix of the PS.</p>	Both identified Temporary Deviations are considered to satisfy criterion of PS Appendix point 1 b) and therefore qualify for the issuance track.
	Findings	N/A

<b>Conclusion</b>	Based on the above the temporary deviation(s) from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline are in accordance with applicable validation requirements related to the temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline in the VVS.		
	<b>Revised PDD</b>		
	<b>Rev. of PDD:</b> Check whether the changes have been fully addressed in a revised PDD.	<input type="checkbox"/>	The changes have correctly been reflected in the revised PDD.
		<input checked="" type="checkbox"/>	A revision of the PDD is not required (in case of temp. deviations the PRC is described in the monitoring report).
		<input type="checkbox"/>	The revised PDD has been forwarded in (i) track-change and (ii) clean version.
	<b>Prior Approval</b>		
<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval	
	<input checked="" type="checkbox"/>	The post registration change does not require prior approval	

## D.3. Corrections

<b>Means of validation</b>	<b>Description of post registration change</b>			
	<b>Start Date:</b> Please provide the start date of the change	15/09/2020	<b>End Date:</b> Please provide the end date of the change, if applicable	No end date
	<b>Description:</b> Please give a detailed description of the change(s)	Revision of erroneous statement " <i>the amount of used fossil fuel will be measured in a mass unit and Equation (2) ... will be applied.</i> " in section B.6.1 of PDD version 5.1.		
	<b>Assessment of post registration change – Corrections</b>			
	<b>Accuracy:</b> Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.	The amount of fossil fuel used is actually measured in a volume unit and calculated by application of Equation (1). This is in line with fuel delivery invoices and as defined in registered monitoring plan and applied methodology.		
	<b>Conservative-ness:</b> Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.	1. The correction does not have any impact on the ER calculation.		
	<b>Appendix PS:</b> Check if the changes fall under one of the scenarios of appendix of the PS.	The change falls under §1 (a) of Appendix PS and does not require prior approval.		
<b>Findings</b>	N/A			
<b>Conclusion</b>	Based on the above stated the corrections to the registered CPA-DD are in accordance with applicable validation requirements related to the corrections in the VVS.			
	<b>Revised PDD</b>			
	<b>Rev. of PDD:</b> Check whether the changes have been fully addressed in a revised PDD.	<input checked="" type="checkbox"/>	The changes have correctly been reflected in the revised PDD.	
		<input type="checkbox"/>	A revision of the PDD is not required (in case of temp. changes).	
		<input checked="" type="checkbox"/>	The revised PDD has been forwarded in (i) track-change and (ii) clean version.	



	<b>Prior Approval</b>		
	<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval
		<input checked="" type="checkbox"/>	The post registration change does not require prior approval

**D.4. Changes to the start date of the crediting period**

<b>Means of validation</b>	Not applicable
<b>Findings</b>	
<b>Conclusion</b>	

**D.5. Inclusion of a monitoring plan**

<b>Means of validation</b>	Not applicable
<b>Findings</b>	
<b>Conclusion</b>	

**D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents**

<b>Means of validation</b>	Not applicable
<b>Findings</b>	
<b>Conclusion</b>	

**D.7. Changes to the project design**

<b>Means of validation</b>	Not applicable
<b>Findings</b>	
<b>Conclusion</b>	

**D.8. Changes specific to afforestation and reforestation project activities**

<b>Means of validation</b>	Not applicable
<b>Findings</b>	
<b>Conclusion</b>	

**SECTION E. Internal quality control**

Before submission of the final assessment report a technical review is carried out. The technical reviewer is a competent GHG auditor being appointed for the scope this project falls under. The technical reviewer is not considered to be part of the verification team and thus not involved in the decision making process up to the technical review.

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

**SECTION F. Validation opinion**

The below listed changes have occurred after the registration of the project.

<i>Type of Change occurred</i>	<i>Total No. of changes</i>	<i>No. of changes which require prior approval</i>
<input checked="" type="checkbox"/> Temporary deviations from the MP	2	0
<input type="checkbox"/> Temporary deviations from the MM	-	-
<input checked="" type="checkbox"/> Corrections that do not affect the project	1	0
<input type="checkbox"/> Change to the start date of the crediting p.	-	-
<input type="checkbox"/> Permanent changes from the MP	-	-
<input type="checkbox"/> Permanent changes from the MM	-	-
<input type="checkbox"/> Design changes to the project activity / PoA	-	-
<input type="checkbox"/> Changes specific to AR projects	-	-

<input type="checkbox"/> Temporary deviations from the MP	-	-
<input type="checkbox"/> Temporary deviations from the MM	-	-

The above listed post registration changes can be submitted via the issuance track

Essen, 06/07/2021




Rainer Winter  
TÜV NORD JI/CDM CP  
Assessment Team Leader

## Appendix 1. Abbreviations

Abbreviations	Full texts
<b>BAU</b>	Business as usual
<b>BUS</b>	Biogas User Survey
<b>CA</b>	Corrective Action / Clarification Action
<b>CAR</b>	Corrective Action Request
<b>CDM</b>	Clean Development Mechanism
<b>CER</b>	Certified Emission Reduction
<b>CL</b>	Clarification Request
<b>CO<sub>2</sub></b>	Carbon dioxide
<b>CO<sub>2e</sub></b>	Carbon dioxide equivalent
<b>CP</b>	Certification Program // Crediting Period
<b>DNA</b>	Designated National Authority
<b>EB</b>	CDM Executive Board
<b>ER</b>	Emission Reductions
<b>ETS</b>	Emission Trading Scheme
<b>FAR</b>	Forward Action Request
<b>GHG</b>	Greenhouse gas(es)
<b>IPCC</b>	Intergovernmental Panel on Climate Change
<b>LOA</b>	Letter of Approval
<b>MOC</b>	Modalities of Communication
<b>PCP</b>	CDM Project Cycle Procedure
<b>PDD</b>	Project Design Document
<b>PP</b>	Project Participant
<b>PRC</b>	Post Registration Change
<b>PS</b>	CDM Project Standard
<b>QC/QA</b>	Quality control/Quality assurance
<b>RCP</b>	Renewal of Crediting Period
<b>TDev</b>	Temporary Deviation
<b>UNFCCC</b>	United Nations Framework Convention on Climate Change
<b>VVS</b>	CDM Validation and Verification Standard

## Appendix 2. Competence of team members and technical reviewers



**Statement of Competence**  
Appointment and authorization according to the procedures  
of the TUV NORD JICDM Certification Program

**Mr. Grzegorz Kochaniewicz**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2022-02-08
VCS / ISO 14064-2	Senior Assessor Technical Reviewer	2022-02-08


Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
3.1	Energy Demand
13.1	Solid waste and wastewater
14.1	Afforestation and Reforestation

173 - Rev. 9, Date: 2019-04-18

173\_S01-VA060-F20\_2019-04-18\_mw9

S01-VA060-F20\_mw3 / 2012-10-25



**Statement of Competence**  
Appointment and authorization according to the procedures  
of the TUV NORD JICDM Certification Program

**Mr. Stefan Winter**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2020-07-27
VCS	Senior Assessor (Validation, Verification) Technical Reviewer	2020-07-27


Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.1	Thermal energy generation
1.2	Renewables
2.1	Energy distribution
3.1	Energy demand
4.1	Cement and lime production
4.2	Paper
5.2	Caprolactam, nitric and adipic acid
9.1	Aluminium and magnesium production
9.2	Iron, steel and Ferro-alloy production
13.1	Solid waste and wastewater
13.2	Manure

163 - Rev. 5, Date: 2017-07-20

163\_S01-VA060-F20\_2017-07-20\_mw8

S01-VA060-F20\_mw3 / 2012-10-25



**Statement of Competence**  
Appointment and authorization according to the procedures  
of the TUV NORD JICDM Certification Program

**Mr. Rainer Winter**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2022-07-01
J1	Senior Assessor	2022-07-01
VCS / ISO 14064-2	Senior Assessor	2022-07-01

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.1	Thermal Energy Generation
1.2	Renewables
4.1	Cement and lime production
4.2	Paper
5.1	Chemical Industry
5.2	Caprolactam, nitric and adipic acid
8.1	Mining/mineral production
9.1	Aluminium and magnesium production
9.2	Iron, steel and Ferro-alloy production
11.1	Emissions of fluorinated gases
11.2	Refrigerant gas production
12.1	Chemical industry
13.1	Solid waste and wastewater

003 - Rev. 11, Date: 2019-08-09

003\_S01-VA060-F20\_2019-08-09\_mw11

S01-VA060-F20\_mw3 / 2012-10-25

## Appendix 3. Documents reviewed or referenced

No.	Author	Reference	Title	References to the document	Provider
1	UNFCCC	<b>/GOT/</b>	Glossary “CDM terms” (version 10.0)	<a href="https://cdm.unfccc.int/Reference/Guidclarif/glos_CD_M.pdf">https://cdm.unfccc.int/Reference/Guidclarif/glos_CD_M.pdf</a>	Other
2	UNFCCC	<b>/KPI/</b>	Kyoto Protocol (1997)	<a href="https://unfccc.int/resource/docs/convkp/kpeng.pdf">https://unfccc.int/resource/docs/convkp/kpeng.pdf</a>	Other
3	UNFCCC	<b>/MA/</b>	Decision 3/CMP. 1 (Marrakesh – Accords)	<a href="http://cdm.unfccc.int/Reference/COPMOP/index.html">http://cdm.unfccc.int/Reference/COPMOP/index.html</a>	Other
4	UNFCCC	<b>/PS/</b>	CDM Project Standard for project activities (Version 02.0)	<a href="http://cdm.unfccc.int/Reference/Standards/index.html">http://cdm.unfccc.int/Reference/Standards/index.html</a>	Other
5	UNFCCC	<b>/VVS/</b>	CDM Validation and Verification Standard for project activities (Version 02.0)	<a href="http://cdm.unfccc.int/Reference/Standards/index.html">http://cdm.unfccc.int/Reference/Standards/index.html</a>	Other
6	UNFCCC	<b>/PCP/</b>	CDM Project Cycle Procedure for project activities (Version 02.0)	<a href="https://cdm.unfccc.int/sunsetcms/storage/contents/stored-file-20181221092024737/PC_proc03v02.pdf">https://cdm.unfccc.int/sunsetcms/storage/contents/stored-file-20181221092024737/PC_proc03v02.pdf</a>	Other
7	UNFCCC	<b>/SAMPLE/</b>	“Guidelines for Sampling and Surveys for CDM Project Activities and Programme Activities” (Version 04.0) “Standard for Sampling and Surveys for CDM Project Activities and Programme Activities” (version 09.0)	<a href="https://cdm.unfccc.int/Reference/Guidclarif/index.html">https://cdm.unfccc.int/Reference/Guidclarif/index.html</a> <a href="http://cdm.unfccc.int/Reference/Standards/index.html">http://cdm.unfccc.int/Reference/Standards/index.html</a>	Other
8	UNFCCC	<b>/TA/</b>	<ul style="list-style-type: none"> <li>Tool to calculate project or leakage CO<sub>2</sub> emissions from fossil fuel combustion Version 03.0</li> <li>Tool to determine the mass flow of a greenhouse gas in a gaseous stream Version 03.0</li> </ul>	<a href="https://cdm.unfccc.int/Reference/tools/index.html">https://cdm.unfccc.int/Reference/tools/index.html</a>	Other
9	UNFCCC	<b>/MRT/</b>	Monitoring Report Form (CDM-MR-FORM), Version 08.0	<a href="https://cdm.unfccc.int/Reference/PDDs_Forms/index.html">https://cdm.unfccc.int/Reference/PDDs_Forms/index.html</a>	Other
10	UNFCCC	<b>/PDD/</b>	PDD for CDM project: “Catalytic N <sub>2</sub> O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co.” Version 05.1, dated 05/09/2019  PDD for CDM project: “Catalytic N <sub>2</sub> O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co.” Version 05.2, dated 02/06/2021	<a href="http://cdm.unfccc.int/Projects/DB/TUEV-SUED1151930566.53/view">http://cdm.unfccc.int/Projects/DB/TUEV-SUED1151930566.53/view</a>	Other
11	UNFCCC	<b>/ACM19/</b>	ACM0019 ver.04.0, “N <sub>2</sub> O abatement from nitric acid production”	<a href="https://cdm.unfccc.int/methodologies/DB/HKCO7RKOQ07">https://cdm.unfccc.int/methodologies/DB/HKCO7RKOQ07</a>	Other

No.	Author	Reference	Title	References to the document	Provider
				<a href="#">48WNVXJNDEW3BJT9XN8L</a>	
12	IPCC	<b>/IPCC/</b>	1. 1996 IPCC Guidelines for National Greenhouse Gas Inventories: work book 2. 2006 IPCC Guidelines for National Greenhouse Gas Inventories: work book IPCC publications	<a href="http://www.ipcc-nggip.iges.or.jp">www.ipcc-nggip.iges.or.jp</a>	Other
13	DOE	<b>/CPM/</b>	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)	(internal)	Other
14	SGS	<b>/14001/</b>	ISO 14001 Certificate of AFC	-	Other
15	SGS	<b>/9001/</b>	ISO 9001 Certificate of AFC	-	Other
16	PP	<b>/MR/</b>	Monitoring Report for CDM project:  “Catalytic N <sub>2</sub> O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co.” Version 01.0, dated 10/05/2021  “Catalytic N <sub>2</sub> O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co.” Version 01.1 dated 02/06/2021  “Catalytic N <sub>2</sub> O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co.” Version 01.1 dated 06/07/2021	-	Other
17	PP	<b>/VAL/</b>	Validation Report for CDM project “Catalytic N <sub>2</sub> O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co.” Revision No. 01.4, dated 25/10/2019	<a href="http://cdm.unfccc.int/Projects/DB/TUEV-SUED1151930566.53/view">http://cdm.unfccc.int/Projects/DB/TUEV-SUED1151930566.53/view</a>	Other
18	PP	<b>/IL/</b>	List of installed instruments and calibration status	-	Other
19	Several authors	<b>/CAL/</b>	Calibration documents	-	Other
20	TUV Rheinland	<b>/CPC/</b>	Certificate of Product Conformity (QAL1)	-	Other
21	PP	<b>/DR/</b>	Daily reports (in CSV and PDF format)	-	Other
22	Emerson Process Management	<b>/DV-CF/</b>	Technical Information by Emerson regarding calibration frequency of the CDM project transmitters	-	Other
23	Emerson Process Management	<b>/DV-VC/</b>	Technical Information by Emerson regarding version control of the CDM project transmitters	-	Other
24	AFC	<b>/GC/</b>	Gas-chromatograph Tail gas analysis reports	-	Other
25	KROHNE Messtechnik	<b>/K-CF/</b>	Technical Information by Krohne regarding calibration frequency of the variable area flowmeter	-	Other
26	Several authors	<b>/MCC/</b>	Maintenance and Calibration Certificates	-	Other
27	GASCO	<b>/NGC/</b>	Natural gas Certificate	-	Other

No.	Author	Reference	Title	References to the document	Provider
28	TÜV Rheinland	<b>/QAL1/</b>	<ul style="list-style-type: none"> <li>- QAL 1 Certificate of the annubar probe</li> <li>- QAL 1 Certificate of the N<sub>2</sub>O Analyzer</li> </ul>	<a href="https://qal1.de/15267/0000038500_02_ski_AccuFlo_QAL_en.pdf">https://qal1.de/15267/0000038500_02_ski_AccuFlo_QAL_en.pdf</a>  <a href="https://qal1.de/15267/0000032299_02_emerson_NGA2000_de.pdf">https://qal1.de/15267/0000032299_02_emerson_NGA2000_de.pdf</a>	Other
29	AIRTEC	<b>/QAL2/</b>	- QAL 2 Report according to EN 14181 dt. 2019-05-25	-	Other
30	PP	<b>/QAL3/</b>	Shewhart control cards / QAL 3 records	-	Other
31	PP	<b>/QMS/</b>	Quality Management System Procedures	-	Other
32	Several authors	<b>/VER/</b>	Documents of previous verifications (Monitoring reports, verification reports)	<a href="http://cdm.unfccc.int/Projects/DB/TUEV-SUED1151930566.53/view">http://cdm.unfccc.int/Projects/DB/TUEV-SUED1151930566.53/view</a>	Other
33	PP	<b>/XLS/</b>	Emission Reductions spread sheet (versions 1.0 and 1.1)	-	Other
34	AIRTEC	<b>/AST/</b>	AST Report 2018, No: 18/64 according to EN 14181	-	Other
35	AIRTEC	<b>/AIRTEC/</b>	Statement regarding the postponement of the AST at AbuQir, Egypt	-	Others
36	PP	<b>/DELTAV/</b>	Data from Delta-V System	-	Other
37	TN	<b>/IM/</b>	Interview memo	-	Other
38	UNFCCC	<b>/COVID/</b>	Covid-19 pandemic decision	<a href="https://cdm.unfccc.int/newsroom/latestnews/releases/2020/01041_index.html">https://cdm.unfccc.int/newsroom/latestnews/releases/2020/01041_index.html</a>	Other
39	Robert Koch Institute	<b>/rki/</b>	Covid-19 risk Countries	<a href="https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Risikogebiete_neu.html">https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Risikogebiete_neu.html</a>	Others

## Appendix 4. Clarification requests, corrective action requests and forward action requests

No specific CL, CAR or FAR have occurred in the context of this PRC validation. For the discussion of findings related to the PRC it should be referred to the verification report, to which this PRC validation report is attached.

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## Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: <ul style="list-style-type: none"><li>• Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN);</li><li>• Make editorial improvements.</li></ul>
02.0	31 October 2017	Revision to align with the requirements in the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Registration Keywords: post-registration change, project activities, validation report		