

DETERMINATION REPORT "MT-INVEST CARBON" LLC

DETERMINATION OF THE TECHNOLOGICAL MODERNIZATION AIMED AT UTILIZATION OF SUGAR PRODUCTION ORGANIC WASTE AT THE ALC "PALMIRSKY SUGAR PLANT"

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Date of first issue: 29/11/2012	Organizational unit: Bureau Veritas Certification Holding SAS
Client: "MT-Invest Carbon" LLC	Client ref.: Iaroslav Falendysh
utilization of sugar production organic was LLC located in Ternopil, Cherkasy, Poltav the JI, as well as criteria given to provide	the determination of the "Technological modernization aimed at ste at the ALC "Palmirsky sugar plant" project of «MT-Invest Carbon» ava, Kharkiv regions of Ukraine, on the basis of UNFCCC criteria for for consistent project operations, monitoring and reporting. UNFCCC ocol, the JI rules and modalities and the subsequent decisions by the host country criteria.
the project's baseline study, monitoring three phases: i) desk review of the project with project stakeholders; iii) resolution of	In independent and objective review of the project design document, plan and other relevant documents, and consisted of the following of design and the baseline and monitoring plan; ii) follow-up interviews f outstanding issues and the issuance of the final determination report a, from Contract Review to Determination Report & Opinion, was tion internal procedures.
	cess is a list of Clarification and Corrective Action Requests (CL and g into account this output, the project proponent revised its project
	tion's opinion that the project correctly applies Guidance on criteria for ts the relevant UNFCCC requirements for the JI and the relevant host
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utilization of sugar production organi the ALC "Palmirsky sugar plant"	aimed at ic waste at
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1 INTRODUCTION

«MT-Invest Carbon» LLC has commissioned Bureau Veritas Certification to determine its JI project "Technological modernization aimed at utilization of sugar production organic waste at the ALC "Palmirsky sugar plant" (hereafter called "the project") in Ternopil, Cherkasy, Poltava, Kharkiv regions of Ukraine.

This report summarizes the findings of the determination of the project, performed on the basis of UNFCCC criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

1.1 Objective

The determination serves as project design verification and is a requirement of all projects. The determination is an independent third party assessment of the project design. In particular, the project's baseline, the monitoring plan (MP), and the project's compliance with relevant UNFCCC and host country criteria are determined in order to confirm that the project design, as documented, is sound and reasonable, and meets the stated requirements and identified criteria. Determination is a requirement for all JI projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of emission reduction units (ERUs).

UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

1.2 Scope

The determination scope is defined as an independent and objective review of the project design document, the project's baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations.

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

1.3 Determination team

The determination team consists of the following personnel:

Kateryna Zinevyh Team Leader, Bureau Veritas Certification Climate Change Lead Verifier

Volodymyr Kulish

Team Member, Bureau Veritas Certification Climate Change Verifier



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This determination report was reviewed by:

Ivan Sokolov Bureau Veritas Certification Internal 7

Internal Technical Reviewer

Olena Manziuk Bureau Veritas Certification

Technical Specialist

2 METHODOLOGY

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

In order to ensure transparency, a determination protocol was customized for the project, according to the version 01 of the Joint Implementation Determination and Verification Manual, issued by the Joint Implementation Supervisory Committee at its 19 meeting on 04/12/2009. The protocol shows, in a transparent manner, criteria (requirements), means of determination and the results from determining the identified criteria. The determination protocol serves the following purposes:

- It organizes, details and clarifies the requirements a JI project is expected to meet;
- It ensures a transparent determination process where the determiner will document how a particular requirement has been determined and the result of the determination.

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

2.1 Review of Documents

The Project Design Document (PDD) submitted by «MT-Invest Carbon» LLC and additional background documents related to the project design and baseline, i.e. country Law, Guidelines for users of the joint implementation project design document form, Approved CDM methodology and/or Guidance on criteria for baseline setting and monitoring, Kyoto Protocol, Clarifications on Determination Requirements to be Checked by an Accredited Independent Entity were reviewed.

To address Bureau Veritas Certification corrective action and clarification requests, «MT-Invest Carbon» LLC revised the PDD and resubmitted it as version 2.0.

The determination findings presented in this report relate to the project as described in the PDD versions 1.0 dated 28/09/2012, 2.0 dated 22/11/2012.

2.2 Follow-up Interviews

On 07/11/2012 Bureau Veritas Certification performed on-site interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of ALC "Palmirsky sugar plant" and «MT-Invest



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Carbon» LLC were interviewed (see References). The main topics of the interviews are summarized in Table 1.

Table 1	Interview	topics
		LOPIOS

Interviewed	Interview topics
organization	
ALC "Palmirsky sugar	Implementation schedule
plant"	Project management organization
	Evidence and records on reconstruction and new
	equipment and its operation
	Environmental impact assessment
	Responsibilities and authorities on project monitoring
	Monitoring equipment
	Quality control and quality assurance procedures
	Negative environmental impact
	Local stakeholders and community comments
CONSULTANT:	Applicability of methodology
«MT-Invest Carbon» LLC	Baseline and Project scenarios
	Barrier analysis
	Additionality justification
	Common practice analysis
	Monitoring plan
	Conformity of PDD to JI requirements

2.3 Resolution of Clarification and Corrective Action Requests

The objective of this phase of the determination is to raise the requests for corrective actions and clarification and any other outstanding issues that needed to be clarified for Bureau Veritas Certification positive conclusion on the project design.

If the determination team, in assessing the PDD and supporting documents, identifies issues that need to be corrected, clarified or improved with regard to JI project requirements, it will raise these issues and inform the project participants of these issues in the form of:

(a) Corrective action request (CAR), requesting the project participants to correct a mistake in the published PDD that is not in accordance with the (technical) process used for the project or relevant JI project requirement or that shows any other logical flaw;

(b) Clarification request (CL), requesting the project participants to provide additional information for the determination team to assess compliance with the JI project requirement in question;



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(c) Forward action request (FAR), informing the project participants of an issue, relating to project implementation but not project design, that needs to be reviewed during the first verification of the project.

The determination team will make an objective assessment as to whether the actions taken by the project participants, if any, satisfactorily resolve the issues raised, if any, and should conclude its findings of the determination.

To guarantee the transparency of the determination process, the concerns raised are documented in more detail in the determination protocol in Appendix A.

3 PROJECT DESCRIPTION

The project aims at improving and modernizing the practice of recycling of organic waste at sugar plants, included in the project boundaries. The project activity results in decrease of the amount of sugar beet pulp to be disposed in landfills, where due to decomposition of organic matter in the pulp under anaerobic conditions the methane releases, which is a greenhouse gas.

This project is implemented within four sugar plants on the territory of Ukraine at: Ternopil, Cherkasy, Poltava, Kharkiv regions. Enterprises signed a joint activity agreement for JI project implementation. ALC "Palmirsky Sugar Plant" coordinates this project activity. To ensure the project transparency, every plant attributed to the project implementation is assigned with an identifying number. The list below includes the plants, where the project activity has been realized.

List of facilities, where the project activity has been realized:

- Limited Liability Company "Orzhytsky Sugar Plant"
- Limited Liability Company "Tsukrove"
- Limited Liability Company "Chortkivsky Sugar Plant"
- Additional Liability Company "Palmirsky Sugar Plant"

Situation before the project implementation

Before the project realization, equipment and infrastructure (warehouses, adjusted logistics system) necessary to decrease moisture content in the pulp, wherefore it quickly deteriorated, and this valuable feed resource turned into organic waste, which at first was stored in pulp pits (up to three months) and then transported to landfills. When emptying the pulp pits from deteriorated pulp, 3-5% of its mass left at the pit bottom, containing a large number of microorganisms that rapidly contaminated new pulp and speeded up the pace of its deterioration. Due to the use of this practice, the pulp produced at the JI project plants could not be used for feeding cattle and was disposed at landfills.



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Baseline scenario

In the baseline scenario in the absence of the project the situation would continue: companies would still store sugar beet pulp in pits in the substance as it was produced, with no additional actions aimed at reduction of its moisture content. After filling the pulp pits with pulp, it would be transported and disposed at landfills. This scenario foresees decomposition of organic matter with the generation of landfill gas containing greenhouse gas – methane.

Sugar production is a main business activity of the sugar plants. However, other products or waste is secondary and those to which not much attention is paid. The base scenario envisaged the continuation of the pulp handling practice that used to be applied by the plants. This scenario does not require any changes to the technical process of the plant, investment and does not face any barriers.

Project scenario

Project scenario assumes installation of equipment for decreasing of moisture content in the pulp, which allows its beneficial utilization as feed for cattle, thus it is not to be disposed at landfills and methane does not release into the atmosphere in result of pulp decomposition.

Project history

The project was initiated by ALC "Palmirsky Sugar Plant" in the spring of 2005. Along with the ratification of the Kyoto Protocol, the opportunity to receive additional financial benefits from reducing greenhouse gases has appeared that was an additional argument for the introduction of such activities at other plants, which involved in the project. Implementation of the main project activity took place during 2005-2007. Emission reductions will be sold as ERUs in the international emission trading market, and the funds obtained will improve the financial performance of the project to a level that justifies the means that were used for its implementation. From the very beginning, the joint implementation mechanism was one of the prominent factors of the project, and financial benefits under this mechanism plays an important role in deciding on the start of the operation and is considered to be one of the reasons to launch the project realization.

Project implementation schedule:

Event	Plant	Dates	
	Orzhytsky	06/2005	
Decision about project implementation	Tsukrove	05/2005	
	Chortkivsky	07/2005	
	Palmirsky	01/2005	
Investment stage	Orzhytsky	03/2006-10/2007	
Investment stage	Tsukrove	05/2006-05/2008	



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	Chortkivsky	03/2006-11/2007		
	Palmirsky	03/2006-01/2008		
	Orzhytsky	02/2006-07/2007		
Installation and management jobs	Tsukrove	01/2006-07/2007		
Installation and management jobs	Chortkivsky	03/2006-07/2007		
	Palmirsky	01/2006-07/2007		
	Orzhytsky	08/2007-12/2027		
	Tsukrove	08/2007-12/2027		
Operational stage	Chortkivsky	08/2007-12/2027		
	Palmirsky	08/2007-12/2027		
	Orzhytsky	01/2008 [*] -12/2027		
Generation of emissions reduction	Tsukrove	01/2008-12/2027		
	Chortkivsky	01/2008-12/2027		
	Palmirsky	01/2008-12/2027		

The identified areas of concern as to the project description, project participants response and BVC's conclusion are described in Appendix A (refer to CAR 01-CAR 09).

4 DETERMINATION CONCLUSIONS

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

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

The Clarification and Corrective Action Requests are stated, where applicable, in the following sections and are further documented in the Determination Protocol in Appendix A. The determination of the Project resulted in 23 Corrective Action Requests and 7 Clarification Requests.

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

4.1 **Project approvals by Parties involved (19-20)**

After receiving JI Project Determination Report from the Accredited Independent Entity the project documentation will be submitted to the State Environmental Investment Agency of Ukraine for receiving a Letter of Approval.

The identified areas of concern as to the project approvals by Parties involved, project participants' response and BVC's conclusion are described in Appendix A (refer to CAR 10 and CAR 11).

^{*} GHG emissions reductions in 2008 were neglected



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The project has no approvals by the Parties involved, therefore CAR 10 remains pending. This CAR will be closed after providing the written approvals.

4.2 Authorization of project participants by Parties involved (21)

The participation of each project participant will be authorized by the Letter of Approval from appropriate party explicitly stating the name of the legal entity.

The project has no approvals by the Parties involved, therefore CAR 10 remains pending. This CAR will be closed after providing the written approvals.

4.3 Baseline setting (22-26)

The PDD explicitly indicates that JI specific approach was the selected approach for identifying the baseline.

The PDD provides a detailed theoretical description in a complete and transparent manner, as well as justification, that the baseline is established:

- (a) By listing and describing the following plausible future scenarios on the basis of conservative assumptions and selecting the most plausible one:
 - a. Continuation of existing situation that does not require any additional investment;
 - b. Utilization of sugar beet pulp along with the production of biogas;
 - c. Preparation of pulp for use as feed for cattle;
 - d. Production of beet pectin, pectin glue or dietary fiber from pulp.
- (b) Taking into account relevant national and/or sectoral policies and circumstances, such as sectoral reform initiatives, local fuel availability, power sector expansion plans, and the economic situation in the project sector. In this context, the following key factors that affect a baseline are taken into account:
 - a. Complex production process
 - b. Prices fluctuation on electricity and natural gas in Ukraine
 - c. Long pay-off period
 - d. The implementation of the proposed project requires sufficient investment and personnel
 - e. Ukraine has one of the lowest tariffs in Europe. Due to this it is hard to invest funds in the reconstruction and repair of equipment

In order to establish the baseline scenario project participants have chosen the use of JI specific approach and "Combined tool to identify the baseline scenario and demonstrate additionality" (version 04.0.0).



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All explanations, descriptions and analyses pertaining to the baseline in the PDD are made in accordance with the identified JI specific approach and the baseline is identified appropriately.

The identified areas of concern as to the baseline setting, project participants response and BVC's conclusion are described in Appendix A (refer to CAR 12).

4.4 Additionality (27-31)

The barrier and common practice analyses were used for the demonstration of additionality. All explanations, descriptions and analyses are made in accordance with the selected tool or method.

The additionality was justified by:

- 1. Identification of four alternatives to the project activity;
- 2. The identified financial and other barriers may hinder the planned project activity implementation without it being registered as JI project;
- 3. Common practice analysis that complements the barrier analysis

Additionality is demonstrated appropriately as a result of the analysis using the approach chosen.

The identified areas of concern as to the additionality, project participants response and BVC's conclusion are described in Appendix A (refer to CAR 13).

4.5 Project boundary (32-33)

The project boundary defined in the PDD encompasses all anthropogenic emissions by sources of greenhouse gases (GHGs) that are:

- (i) Under the control of the project participants:
 - CH₄ emissions due to anaerobic fermentation of sugar production waste (pulp)
- (ii) Reasonably attributable to the project:
 - CH₄ emissions due to anaerobic fermentation of pulp (that has not been processed, if this condition is satisfied).

The delineation of the project boundary and the gases and sources included are appropriately described and justified in the PDD.

The AIE determined the project boundary by:

a) Detailed analysis of the documentation (the list of all reviewed documentation is provided in the Category 2 Documents below).



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b) Interviews and observations during the site visit dated 07/11/2012 (The list of persons interviewed is provided in the Persons Interviewed Table below).

Based on the above assessment, the AIE hereby confirms that the identified boundary and the selected sources and gases are justified for the project activity.

The identified areas of concern as to the project boundary, project participants response and BVC's conclusion are described in Appendix A (refer to CAR 14).

4.6 Crediting period (34)

The PDD states the starting date of the project as the date on which the real action of the project began, and the starting date is 18/01/2005, which is after the beginning of 2000.

The PDD states the expected operational lifetime of the project in years and months, which is 20 years or 240 months.

The PDD states the length of the crediting period in years and months, which is 20 years or 240 months, and its starting date as 01/01/2008, which is on the date the first emission reductions or enhancements of net removals are generated by the project.

The PDD states that the crediting period for the issuance of ERUs starts only after the beginning of 2008 and does not extend beyond the operational lifetime of the project.

The PDD states that the extension of its crediting period beyond 2012 is subject to the host Party approval, and the estimates of emission reductions or enhancements of net removals are presented separately for those until 2012 and those after 2012 in all relevant sections of the PDD.

The identified areas of concern as to the crediting period, project participants response and BVC's conclusion are described in Appendix A (refer to CL 02– CL 04, CAR 14 – CAR 15).

4.7 Monitoring plan (35-39)

The PDD, in its monitoring plan section, explicitly indicates that JI specific approach was the selected.

The monitoring plan describes all relevant factors and key characteristics that will be monitored, and the period in which they will be monitored, in particular also all decisive factors for the control and reporting of project performance.

The monitoring plan specifies the indicators, constants and variables that are reliable (i.e. provide consistent and accurate values), valid (i.e. are clearly connected with the



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effect to be measured), and that provide a transparent picture of the emission reductions to be monitored.

The monitoring plan draws on the list of standard variables indicated in appendix B of "Guidance on criteria for baseline setting and monitoring" developed by the JISC.

The monitoring plan explicitly and clearly distinguishes:

(i) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination.

(ii) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination, such are not applicable.

(iii) Data and parameters that are monitored throughout the crediting period, such as baseline emissions.

The monitoring plan describes the methods employed for data monitoring (including its frequency) and recording according to the type indicated in the key parameters tables in the Section B of the PDD.

The monitoring plan elaborates all algorithms and formulae used for the estimation/calculation of baseline emissions and project emissions or direct monitoring of emission reductions from the project, leakage, as appropriate.

Project emissions:

Calculation formula for identifying the amount of emissions after the project implementation:

$$\begin{array}{ll} PE_{y} = \sum_{i=1}^{n} PE_{i,biomass,y}, & (Equation 1) \\ \\ where: \\ PE_{y}, & Project GHG emissions due to project implementation in period y, tCO_{2}e; \\ PE_{i,biomass,y} & Project methane emissions due to the decomposition of organic waste of the plant i at the landfill in the period y, (tCO_{2}e); \\ i & Project plant index; \\ n & Number of project plants. \end{array}$$

Project methane emissions from decomposition of organic waste at the landfill are calculated as follows:

$$PE_{i,biomass,y} = (1-f) \cdot GWP_{CH4} \cdot (1-OX) \cdot \frac{16}{12} \cdot F \cdot DOC_f \cdot MCF \cdot \sum_{x=1}^{y} P_{i,x} \cdot DOC \cdot e^{-k \cdot (y-x)} \cdot (1-e^{-k}),$$
(Equation 2)

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where:	
PE _{i,biomass,y}	Project methane emissions due to the decomposition of organic waste of
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	the plant at the landfill in the period $y$ , tCO ₂ e;
$P_{i,x}$	Amount of sugar production waste (pulp) that was not sold by the plant in
	period x and was disposed at the landfill, t;
f	CH ₄ fraction captured and utilized at the landfill, fraction;
GWP _{CH4}	Global warming potential for methane, tCO ₂ e/tCH ₄ (According to the
	UNFCCC decision and the Kyoto Protocol);
OX	Oxidation factor reflects the amount of CH ₄ that is oxidised in other
	material covering the waste, fraction (2006 IPCC Volume 5: Waste,
	Chapter 3, Page 3.15);
F	Fraction of CH ₄ , by volume, in generated landfill gas, fraction (2006 IPCC
	Volume 5: Waste, Chapter 3, Page 3.15);
$DOC_{f}$	Fraction of the degradable organic carbon that decomposes, fraction
	(2006 IPCC Volume 5: Waste, Chapter 3, Page 3.13);
MCF	CH ₄ correction factor, fraction (2006 IPCC);
DOC	Fraction of the degradable organic carbon in the waste of j-type (pulp), tC/t
	of pulp (Laboratory testing data. Results are in the range provided by 2006
	IPCC Volume 5: Waste, Chapter 2, Page 2.14);
k	Waste (pulp) decomposition factor, fraction (2006 IPCC Volume 5: Waste,
	Chapter 3, Page 3.17);
x	Period during the crediting period: $x \in (1; y)$ ;
	Period for which methane emissions are calculated.
У	

### **Baseline emissions:**

The baseline emissions are calculated as follows:

$$BE_{y} = \sum_{i=1}^{n} BE_{i, biomass, y},$$

(Equation 3)

where:

$BE_y$	Baseline GHG emissions in the period y, $tCO_2e$ ;
$BE_{i,biomass,y}$	Baseline CH ₄ emissions from degradable organic waste of plant at the
-	landfill in the period y, tCO ₂ e.
i	Project plant index;
n	Number of project plants.

Baseline  $CH_4$  emissions from degradable organic waste at the landfill are calculated as follows:

$$BE_{i,biomass,y} = (1-f) \cdot GWP_{CH4} \cdot (1-OX) \cdot \frac{16}{12} \cdot F \cdot DOC_f \cdot MCF \cdot \sum_{k=1}^{y} W_{i,k} \cdot DOC \cdot e^{-k \cdot (y-x)} \cdot (1-e^{-k}),$$
(Equation 4)

where:



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BE _{i,biomass,y}	
Wx	landfill in the period y, tCO ₂ e; Amount of sugar production waste, which would be disposed at the landfill
~~~	in period x, t (Parameter B-1);
arphi	Correction factor to account for model uncertainties, ratio (Study on
r	modeling landfill gas formation);
f	CH_4 fraction captured and utilized at the landfill, fraction;
GWP _{CH4}	Global warming potential for methane, tCO ₂ e/tCH ₄ (According to the UNFCCC Decision and the Kyoto Protocol);
OX	Oxidation factor reflects the amount of CH ₄ that is oxidized in other
	material covering the waste, fraction (2006 IPCC Volume 5: Waste,
	Chapter 3, Page 3.15);
F	Fraction of CH ₄ by volume, in generated landfill gas, fraction (2006 IPCC
	Volume 5: Waste, Chapter 3, Page 3.15);
DOC_{f}	Fraction of the degradable organic carbon that decomposes, fraction
	(2006 IPCC Volume 5: Waste, Chapter 3, Page 3.13);
MCF	CH ₄ correction factor, fraction (2006 IPCC Volume 5: Waste, Chapter 3,
	Page 3.14);
DOC	Fraction of the degradable organic carbon in the waste of j-type (pulp), tC/t
	of pulp (Laboratory testing data. Results are in the range provided by 2006
	IPCC Volume 5: Waste, Chapter 2, Page 2.14);
k	Waste (pulp) decomposition factor, fraction (2006 IPCC Volume 5: Waste,
	Chapter 3, Page 3.17);
x	Period during the crediting period: $x \in (1; y)$;
У	Period for which methane emissions are calculated.
-	

Leakage

Leakages in the period *y* are calculated in the following way:

$$LE_y = 0$$
,

(Equation 5)

where

 LE_y Leakages due to the project in the period y, tCO₂e.

Emission Reductions:

Annual emission reductions are calculated as follows:

$$ER_{y} = BE_{y} - LE_{y} - PE_{y}$$
 (Equation 12)

where

 ER_{v}

emission reductions following the project implementation in the period y, tCO₂e;



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- LE_{y} leakage as a result of implementation of the project in the period *y*, tCO₂e;
- BE_y baseline emissions of the project in the period y, tCO₂e;
- PE_y project emissions in the period y, tCO₂e;

The monitoring plan presents the quality assurance and control procedures for the monitoring process. This includes, as appropriate, information on calibration and on how records on data and/or method validity and accuracy are kept and made available on request.

The monitoring plan clearly identifies the responsibilities and the authority regarding the monitoring activities.

On the whole, the monitoring plan reflects good monitoring practices appropriate to the project type.

The monitoring plan provides, in tabular form, a complete compilation of the data that need to be collected for its application, including data that are measured or sampled and data that are collected from other sources (e.g. official statistics, expert judgment, proprietary data, IPCC, commercial and scientific literature etc.) but not including data that are calculated with equations.

The monitoring plan indicates that the data monitored and required for verification are to be kept for two years after the last transfer of ERUs for the project.

The identified areas of concern as to the monitoring plan, project participants response and BVC's conclusion are described in Appendix A (refer to CAR 11 – CAR 17).

4.8 Leakage (40-41)

The PDD appropriately describes an assessment of the potential indirect CO_2 , CH_4 , leakage in the process of fuel production and transportation and appropriately explains that sources can be neglected.

There are no outstanding issues concerning the leakage.

4.9 Estimation of emission reductions or enhancements of net removals (42-47)

The PDD indicates assessment of emissions in the baseline scenario and in the project scenario as the approach chosen to estimate the emission reductions or enhancement of net removals generated by the project.

The PDD provides the ex ante estimates of:



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(a) Emissions or net removals for the project scenario (within the project boundary), which are:

Estimated project emissions during the first crediting period:

Year	Project emissions from anaerobic fermentation of pulp, t CO ₂ e	Total project emissions during the first crediting period, t CO_2 eq
2008	0	0
2009	0	0
2010	0	0
2011	0	0
2012	0	0
Total	0	0

Estimated project emissions after the end of the first crediting period (2013-2027):

Year	Project emissions due to organic waste decay at landfill, t CO ₂ eq
2013	0
2014	0
2015	0
2016	0
2017	0
2018	0
2019	0
2020	0
2021	0
2022	0
2023	0
2024	0
2025	0
2026	0
2027	0
Estimated project emissions after the end of the first crediting period, t CO ₂ eq	0



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(b) Leakage, as applicable, which are:

Estimated leakages during the first crediting period:

	2008	2009	2010	2011	2012	Total
Estimated leakage during the first crediting period, t CO ₂ eq	0	0	0	0	0	0

Estimated leakages after the end of the first crediting period (2013-2027):

Year	Leakages
2013	0
2014	0
2015	0
2016	0
2017	0
2018	0
2019	0
2020	0
2021	0
2022	0
2023	0
2024	0
2025	0
2026	0
2027	0
Estimated leakages after the end of the first crediting period, t CO ₂ eq	0

(c) Emissions for the baseline scenario (within the project boundary), which are:

Estimated baseline emissions during the first crediting period:

Year	baseline emissions from anaerobic fermentation of pulp, t $CO_2 e$	Total project emissions during the first crediting period, t CO ₂ eq
2008	1 548 884	1 548 884
2009	1 643 235	1 643 235
2010	1 754 048	1 754 048
2011	1 918 841	1 918 841
2012	2 015 144	2 015 144
Total	8 880 152	8 880 152



DETERMINATION REPORT

Estimated baseline emissions after the end of the first crediting period (2013-2027):

Year	Baseline emissions due to organic waste decay at landfill, t CO ₂ eq
2013	2 095 181
2014	2 161 701
2015	2 216 986
2016	2 262 933
2017	2 301 121
2018	2 332 858
2019	2 359 235
2020	2 381 157
2021	2 399 377
2022	2 414 520
2023	2 427 104
2024	2 437 564
2025	2 446 257
2026	2 453 481
2027	2 459 486
Estimated baseline emissions after the end of the first crediting period, t CO ₂ eq	35 148 961

(d) Emission reductions or enhancements of net removals adjusted by leakage (based on (a)-(c) above), which are:

Emission reductions during the first crediting period:

Year	Emission reductions during the first crediting period, t CO ₂ eq
2008	1 548 884
2009	1 643 235
2010	1 754 048
2011	1 918 841
2012	2 015 144
Total	8 880 152



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Emission reductions after the first crediting period (2013-2027):

Year	Emission reductions due to organic waste decay at landfill after the first crediting period, t CO ₂ eq
2013	2 095 181
2014	2 161 701
2015	2 216 986
2016	2 262 933
2017	2 301 121
2018	2 332 858
2019	2 359 235
2020	2 381 157
2021	2 399 377
2022	2 414 520
2023	2 427 104
2024	2 437 564
2025	2 446 257
2026	2 453 481
2027	2 459 486
Estimated emission reductions after the first crediting period, t CO ₂ eq	35 148 961

The estimates referred to above are given:

- (a) On a periodical basis;
- (b) From 01/01/2008 to 31/12/2027, covering the whole crediting period;
- (c) On a source-by-source basis;
- (d) For each GHG gas, which is CO₂;

(e) In tonnes of CO_2 equivalent, using global warming potentials defined by decision 2/CP.3 or as subsequently revised in accordance with Article 5 of the Kyoto Protocol;

The formulas used for calculating the estimates referred above are consistent throughout the PDD.

For calculating the estimates referred to above, key factors, influencing the baseline emissions and the activity level of the project and the emissions as well as risks associated with the project were taken into account, as appropriate.

Data sources used for calculating the estimates referred to above are clearly identified, reliable and transparent.



DETERMINATION REPORT

Emission factors were selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice.

The estimation referred to above is based on conservative assumptions and the most plausible scenarios in a transparent manner.

The estimates referred to above are consistent throughout the PDD.

The annual average of estimated emission reductions over the crediting period is calculated by dividing the total estimated emission reductions over the crediting period by the total months of the crediting period, and multiplying by twelve.

The PDD includes an illustrative ex ante emissions calculation.

No outstanding issues were raised concerning the emission reductions assessment.

4.10 Environmental impacts (48)

According to the legislation of Ukraine, a detailed EIA for this project is not needed.

Implementation of the project activity also has a positive social impact through removing of the concentrated odour beetroot pulp storage facilities and improving working conditions at the sugar plant.

Since the project does not lead to negative impacts on the environment, transboundary impacts that occur in any other country, and are caused by implementation of this project, which is physically located entirely within Ukraine, are absent.

The identified areas of concern as to the environmental impacts, project participants response and BVC's conclusion are described in Appendix A (refer to CAR 23).

4.11 Stakeholder consultation (49)

Stakeholder consultation was not undertaken as it is not required by the host party.

4.12 Determination regarding small scale projects (50-57)

Not applicable

4.13 Determination regarding land use, land-use change and forestry (LULUCF) projects (58-64)

Not applicable





4.14 Determination regarding programmes of activities (65-73)

Not applicable

5 SUMMARY AND REPORT OF HOW DUE ACCOUNT WAS TAKEN OF COMMENTS RECEIVED PURSUANT TO PARAGRAPH 32 OF THE JI GUIDELINES

No comments, pursuant to paragraph 32 of the JI Guidelines, were received.

6 DETERMINATION OPINION

Bureau Veritas Certification has performed a determination of the "Technological modernization aimed at utilization of sugar production organic waste at the ALC "Palmirsky sugar plant" Project in Ternopil, Cherkasy, Poltava, Kharkiv regions of Ukraine. The determination was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The determination consisted of the following three phases:

- i) a desk review of the project design and the baseline and monitoring plan;
- ii) follow-up interviews with project stakeholders;
- iii) the resolution of outstanding issues and the issuance of the final determination report and opinion.

Project participants used the latest Tool for demonstration and assessment of the additionality. In line with this tool, the PDD provides barrier analysis and common practice analysis, to determine that the project activity itself is not the baseline scenario.

Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented and maintained as designed, the project is likely to achieve the estimated amount of emission reductions.

The determination revealed one pending issue related to the current determination stage of the project: the issue of the written approval of the project and the authorization of the project participant by the host Party. If the written approval and the authorization by the host Party are awarded, it is our opinion that the project as described in the Project Design Document, Version 2.0 meets all the relevant UNFCCC requirements for the determination stage and the relevant host Party criteria.

The review of the project design documentation (version 2.0) and the subsequent follow-up interviews have provided Bureau Veritas Certification with sufficient evidence to determine the fulfillment of stated criteria. In our opinion, the project correctly applies



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and meets the relevant UNFCCC requirements for the JI and the relevant host country criteria.

The determination is based on the information made available to us and the engagement conditions detailed in this report.



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7 REFERENCES

Category 1 Documents:

Documents provided by «MT-Invest Carbon» LLC that relate directly to the GHG components of the project.

- /1/ Project Design Document "Technological modernization aimed at utilization of sugar production organic waste at the ALC "Palmirsky sugar plant" version 1.0 dated 28/09/2012
- /2/ Project Design Document "Technological modernization aimed at utilization of sugar production organic waste at the ALC "Palmirsky sugar plant" version 2.0 dated 28/11/2012
- /3/ GHG emission reductions calculation spreadsheet "Kernel_ER.xls"
- /4/ Letter of Endorsement #3483/23/7 issued by the State Environmental Investment Agency dated 15/11/2012

Category 2 Documents:

Background documents related to the design and/or methodologies employed in the design or other reference documents.

"Orzhytskyy sugar factory"

- '1/ Permit number 14008 on disposal in 2005. / Dated 01/07/.2004
- 2/ Limit number 14008 on the generation and disposal of waste in 2005. / Dated 12/07/2004
- '3/ Permit number 14008 on disposal in 2009. / Dated 01/07//2008
- '4/ Limit number 14008 on the generation and disposal of waste by 2009. / Dated 28/08/2008
- '5/ Permit number 14008 on waste disposal in 2010. / Dated 01/07/2009
- 6/ Limit number 14008 on the generation and disposal of waste by 2010
- 7/ Permit number 14008 on disposal in 2011. / Dated 01/07/2010
- '8/ Limit number 14008 on the generation and disposal of waste by 2010. / Dated 22.07.10
- '9/ Permit number 14008 on disposal in 2012. / Dated 01/07/2011
- '10/ Limit number 14008 on the generation and disposal of waste in 2012. / Dated 22/08/11
- '11/ Order № 14/1 to establish a working group on improving the practice of recycling organic waste dated 01/03/2005
- '12/ Annex 1 to the Order № 14/1 to establish a working group on improving the practice of recycling organic waste dated 01/03/2005
- '13/ Order № 109/1 on the establishment of a working group on improving the practice of recycling organic waste dated 06/01/2012
- '14/ Annex 1 to the Order № 109/1 on the establishment of a working group on improving the practice of recycling organic waste dated 06/01/2012
- '15/ Report on air protection in the first quarter of 2007
- '16/ Report on air protection in the first quarter of 2008



- '17/ Report on air protection in the first quarter of 2009
- '18/ Report on air protection in the first quarter of 2010
- '19/ Report on air protection in the first quarter of 2011
- 20/ Report on Air Protection in 2005
- 21/ Report on Air Protection in 2007
- 22/ Report on Air Protection in 2008
- 23/ Report on air protection for 2009
- 24/ Report on Air Protection in 2010
- 25/ Report on air protection for 2011
- Ltd. "Tsukrovyk" '26/ Act number 2 taking delivery of the Agreement number TO/TS-2007 from 01.08.2007 / press type RS80S
- 27/ Expenditures number 17 of 08/06/2008 / pulp pelleting line
- 28/ Resolution № 1287/714/00/02 emissions from stationary sources of atmospheric substances / Dated 16/05/2002
- '29/ Ministry of Ecology and Natural Resources of Ukraine / Letter prescription / # 7-05-188 Dated 20/01/2003
- '30/ Ministry of Environmental Protection of Ukraine / Letter prescription / № 07-05-3142 Dated 08.11.2004
- '31/ Ministry of Environmental Protection of Ukraine / Letter prescription / № 06-06-3331 Dated 05/10/2005
- '32/ Ministry of Environmental Protection of Ukraine / № 06-06-31458 from 23/04/2007
- '33/ Resolution № 6323155600-16 emissions from stationary sources of atmospheric substances / Dated 01/06/2010
- '34/ Application to permit the emission of atmospheric substances from stationary sources
- '35/ Resolution № 6323155600-10 emissions from stationary sources of atmospheric substances / Dated 13/11/2008
- '36/ Impacts on the environment property / annotation report Phase 1 contract № 15/02-1 Dated 15/02/2012
- '37/ Report on air protection in the first quarter of 2004
- '38/ Report on air protection for the second quarter of 2004
- '39/ Report on air protection for the third quarter of 2010 / Dated 19/10/2010
- '40/ Report on air protection for the second quarter of 2011. / Dated 13/07/2011
- '41/ Report on air protection in 2010. / Dated 14/01/2011
- '42/ Report on air protection for the second quarter of 2009. / Dated 09/07/2009
- '43/ Report creation, processing and disposal of waste-III hazard class in 2008. / Dated 20/01/2009
- '44/ Report creation, processing and disposal of waste-III hazard classes for 2007
- '45/ Report creation, processing and disposal of waste-III hazard class in 2008. / Dated 20/01/2009
- '46/ Report on Air Protection in 2004
- '47/ Report on Air Protection in 2005
- '48/ Report on Air Protection in 2006
- '49/ Report on Air Protection in 2007
- '50/ Report on Air Protection in 2008





/51/	Report on air protection in 2009
/52/	Report on Air Protection in 2010
/53/	Report creation, processing and disposal of waste-III hazard class in 2006
/54/	Report creation, processing and disposal of waste-III hazard classes for 2009. / Dated 15.01.2010
/55/	Report on the waste by 2011. / Dated 09.02.2012
/56/	Detailed design / Station deep streak
'57/	Passport / Balance NORM-TN / ARKS.404.611.004 / Serial number 2050
/58/	Passport / Truck tenzo scales / TC-60D4A15U1 / № 2243
'59/	
	Resolution № 662 of 22.12.2003 on the disposal of waste in 2004
/60/ /61/	Resolution № 1586 of 12.04.2006 on the disposal of waste in 2006
/61/ /62/	Resolution № 417 of 21.09.2007 on the disposal of waste in 2008
/62/ /62/	Resolution № 1589 of 01.06.2010 on the disposal of waste in 2010
/63/	Resolution № 569 of 13.09.2011 on disposal in 2012
/64/ /65/	Limit on the generation and disposal of waste in 2006. Dated 03.10.2005
/65/ /66/	Limit on the generation and disposal of waste in 2007. Dated 02.02.2007
/66/ /67/	Limit on the generation and disposal of waste by 2009. Dated 03. 10.2008
/67/ /68/	Limit on the generation and disposal of waste by 2011
/68/ /60/	Resolution # 1669 of 03.10.2005 on the disposal of waste in 2005
'69/ /70/	Resolution # 1411 dated 02.02.2007 for disposal in 2007
/70/	Resolution # 545 of 03.10.2008 for disposal in 2009
/71/ /72/	Resolution # 413 dated 06.01.2010 for disposal in 2011
/72/	Limit on the generation and disposal of waste in 2004. Dated 22/12/2003
'73/	Limit on the generation and disposal of waste in 2006. Dated 12/04/2006
/74/ /75/	Limit on the generation and disposal of waste in 2008
/75/ /76/	Limit on the generation and disposal of waste in 2010
'76/ /77/	Limit on the generation and disposal of waste in 2012
/77/	Order number 09 on the establishment of a working group on improving the
/78/	practice of recycling organic waste dated 25/01/2005
	Appendix № 1 to the Order #09 dated 25/01/2005 Annex № 2 to the Order #09 of 25/01/2005
/79/ /80/	
/80/	Order № 71/1 to establish a working group on improving the practice of recycling organic waste dated 04/30/2012
′81/	Appendix #1 to the Order #71/1 dated 30/04/2012
/82/	Annex #2 to the Order #71/1 of 30.04.2012
02/	Ltd. "Chortkiv sugar factory"
/83/	Report on Air Protection in 2004
/84/	Report on Air Protection in 2005
/85/	Report on Air Protection in 2006
/86/	Report on Air Protection in 2007
'87/	Report on Air Protection in 2008
/88/	Report on air protection for 2009
'89/	
	Report on Air Protection in 2010
′90/ ′91/	Report on air protection for 2011
'91/ '92/	Passport / Bunker automatic / SV.318B.000 PS / Sveda BWA-3-1000, № 61
	Passport / Bunker automatic / SV.318B.000 PS / Sveda BWA-3-1000, № 81
/93/	Resolution number 16/01 dated 24/06/2005r. for waste disposal in 2006



- ′94/ Resolution number 16/01 dated 14/06/2006r. for waste disposal in 2007 /95/ Resolution number 16/01 dated 24/06/2007r. for waste disposal in 2008 /96/ Resolution number 16/01 dated 24/06/2008r. for waste disposal in 2009 /97/ Resolution number 16/01 dated 15/06/2009r. for waste disposal in 2010 /98/ Resolution number 16/01 dated 08/06/2010r. for waste disposal in 2011 /99/ Resolution number 16/01 dated 07/06/2011r. for waste disposal in 2012 /100/ Resolution number 16/01 dated 12/06/2012r. for waste disposal in 2013 /101/ Limits on the generation and disposal of waste in 2006. dated 04/10/2005 #510 /102/ Limits on the generation and disposal of waste in 2007. dated 06.11.2006 # 650 /103/ Limits on the generation and disposal of waste in 2008. dated 04/10/2007 # 633 /104/ Limits on the generation and disposal of waste by 2009. dated 15/10/2008 # 633 /105/ Limits on the generation and disposal of waste by 2010 /106/ Limits on the generation and disposal of waste by 2011 /107/ Limits on the generation and disposal of waste in 2012. dated 29/12/2011 /108/ Order to establish a working group number 42 dated 15/03/2012 /109/ Order to establish a working group number 54 dated 23/03/2005 Ltd. "Palmirskiy sugar factory" /110/ Ministry of Ecology and Natural Resources of Ukraine / about permitting the emission of pollutants into the air / dated 04.02.2005 # 411/01-9 /111/ Resolution # 712182004-2 on emissions of pollutants into the air from stationary sources / dated 05/01/2011 /112/ Resolution # 712182004-1 on emissions of pollutants into the air from stationary sources / dated 05/01/2011 Ministry of Environmental Protection of Ukraine / O permit the emission of /113/ pollutants into the atmosphere / dated 15/08/2006 # 3565/05 /114/ Ministry of Environmental Protection of Ukraine / O permit the emission of pollutants into the atmosphere / dated 26/03/2007 # 1247/05 /115/ Ministry of Environmental Protection of Ukraine / On the extension of the permit for discharges of pollutants into the air / dated 30/12/2008 # 6509/04 /116/ The decision to permit the emission of pollutants into the air from stationary sources dated 22.12.2009 # 7121582001-5 /117/ Resolution № 712182001-5 on emissions of pollutants into the air from stationary sources / dated 22/12/2009 /118/ The decision to permit the emission of pollutants into the air from stationary sources dated 29/12/2009 # 7121582001-7 /119/ Resolution #712182001-7 on emissions of pollutants into the air from stationary sources / dated 29.12.2009 /120/ Resolution #712182004-1 on emissions of pollutants into the air from stationary sources / dated 05/11/2011 /121/ Resolution # 712182004-2 on emissions of pollutants into the air from stationary sources / dated 05/11/2011 /122/ Limit on the generation and disposal of waste in 2008. / dated 18/09/2007 /123/ Limit on the generation and disposal of waste by 2009. / dated 10/09/2008
- '124/ Limit on the generation and disposal of waste by 2010. / dated 16/09/2009



- '125/ Limit on the generation and disposal of waste by 2011. / dated 27/09/2010
- '126/ Resolution #001685 dated 28.11.2003 for disposal in 2004
- '127/ Application to permit # 001685 dated 28/11/2003
- '128/ Resolution # 001731 from 04.02.2004 for waste disposal in 2004
- '129/ Application to permit # 001731 dated 04/02/2004
- '130/ Resolution # 001 861 of 06.08.2004 on disposal in 2005
- '131/ Application to permit # 001861 dated 06/08/2004
- '132/ Resolution # 002376 from 05.10.2005 for waste disposal in 2006
- '133/ Application to permit # 002376 dated 05/10/2005
- '134/ Resolution # 002865 from 29.09.2006 for waste disposal in 2007
- '135/ Application to permit # 002865 dated 29/09/2006
- '136/ Limits on the generation and disposal of waste in 2012 dated 21/09/2011
- '137/ Limits on the generation and disposal of waste for 2011 dated 27/09/2010
- '138/ Limits on the generation and disposal of waste by 2010 dated 16/09/2009
- '139/ Order #03/1-0 to establish a working group on improving the practice of recycling organic waste dated 18/01/2005
- '140/ Appendix # 1 to the Order # 03/1-0 dated 18/01/2005
- '141/ Order # 99/1-0 to establish a working group on improving the practice of recycling organic waste dated 06/06/2012
- '142/ Appendix # 1 to the Order # 99/1-0 dated 06/06/2012
- '143/ Ministry of Ecology and Natural Resources of Ukraine / About permitting the emission of pollutants into the air / # 411/01-9 from 04/02/2005
- '144/ Ministry of Ecology and Natural Resources of Ukraine / About setting a state record in the field of air / # 1-9/1625 dated 16/04/2003
- '145/ Permit number 710320 on emissions of pollutants into the air from stationary sources dated 28/10/1999
- '146/ Table number 1 to Permit # 710320 dated 28/10/1999.
- '147/ Report on air protection for 2009





Persons interviewed:

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

"Orzhytskyy sugar factory"

- /1/ Muzykant Anatoly Director
- /2/ Syukalo Oleksander Chief Engineer
- /3/ Belskaya Tamara Chief Technologist
- /4/ Fetisov Roman Chief Energy
- /5/ Veselska Irina Engineer on environmental protection "Tsukrovyk
- /6/ Poplavsky Vitaliy Acting Director / Chief Engineer
- /7/ Komandik Angelina Chief Technologist
- /8/ Pershakov Oleksander Chief Energy
- /9/ Poplavskaya Inna Principal Ecologist
 "Chortkiv sugar factory"
- /10/ Medvid Valery Director
- /11/ Levitsky Jaroslav Technical Director / Chief Engineer
- /12/ Yakovets Volodymyr Chief Technologist
- /13/ Yakovenko Anatoly Main power
- /14/ Ogal Emilia D. Engineer on environmental protection "Palmirskiy sugar factory"
- /15/ Pavlichenko Victor Director
- /16/ Hryhoryiv Sergey Chief Engineer
- /17/ Mushroom Volodymyr Manager Quality System
- /18/ Poyeznyk Valeriy Main power
- /19/ Tytarenko Alexander Chief metrologist
- /20/ Kosenko Olga Chief Technologist

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DETERMINATION REPORT

APPENDIX A: DETERMINATION PROTOCOL

Check list for determination, according JOINT IMPLEMENTATION DETERMINATION AND VERIFICATION MANUAL (Version 01)

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	scription of the project			
Title of the p				
-	Is the title of the project presented?	Technological modernization aimed at utilization of sugar production organic waste at the ALC "Palmirsky sugar plant"	ОК	OK
-	Is the sectoral scope to which the project pertains presented?	13. Waste handling and disposal	ОК	OK
-	Is the current version number of the document presented?	PDD version 2.0	OK	ОК
-	Is the date when the document was completed presented?	Date of completion: 28/11/2012	ОК	OK
Description	of the project			
-	Is the purpose of the project included with a concise, summarizing explanation (max. 1-2 pages) of the:	Corrective Action Request 01 Please add brief description of the baseline scenario.	CAR 01 CAR 02 CAR 03	ОК
	a) Situation existing prior to the starting date of the project;b) Baseline scenario; and	Corrective Action Request 02 Please add technical summery of the project scenario.		
	c) Project scenario (expected outcome, including a technical description)?	<u>Corrective Action Request 03</u> Please use in the PDD the font prescribed by the JI PDD Form, version 01.		
-	Is the history of the project (incl. its JI component) briefly summarized?	Corrective Action Request 04 Please specify the starting date of the project and provide the justifying document to the AIE.	CAR 04	ОК
Project part				
-	Are project participants and Party(ies) involved	The list of the parties involved and project participants is	CAR 05	OK



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	in the project listed?	provided in Section A.3 of the PDD. Parties involved: Ukraine (Host country). The second Party: The Netherlands.		
		<u>Corrective Action Request 05</u> The Table A.3 of the PDD has to comply with the format envisaged by the Guidelines for Users of the JI PDD Form, version 04.		
-	Is the data of the project participants presented in tabular format?	Yes, the data of the project participants is presented in tabular format.	OK	OK
-	Is contact information provided in Annex 1 of the PDD?	Yes, the contact information is provided in Annex 1 of the PDD.	CAR 06	OK
		Corrective Action Request 06 Old information concerning KVED types of economic activities is presented in Annex 1. Please update the information as per valid certificate.		
-	Is it indicated, if it is the case, if the Party involved is a host Party?	Yes.	OK	OK
Technical d Location of	escription of the project			
-	Host Party(ies)	Ukraine	OK	OK
-	Region/State/Province etc.	Ternopil Region Cherkasy Region Poltava Region Kharkiv Region	ОК	ОК
-	City/Town/Community etc.	Novorzhytsk Town, Orzhytsky District, Poltava Region Chapaeve Town, Kegichevsky District, Kharkiv Region Zavodsk Town, Chortkivskiy District, Ternopil Region Palmira Village, Zolotonosivskiy District, the Cherkasy Region	CAR 07	ОК



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		<u>Corrective Action Request 07</u> The Section A.4.1 has to comply with the format envisaged by the Guidelines for Users of the JI PDD Form, version 04.		
-	Detail of the physical location, including information allowing the unique identification of the project. (This section should not exceed one page)	The geographic coordinates of the site are: "Orzhytsky Sugar Plant" LLC: 50°1'32.94" N 32°43'42.75" E "Tsukrove" LLC: 49°21'52.00 " N 35°52'42.99" E "Chortkivsky Sugar Plant" LLC: 48°59'47.00" N 25°51'32.00" E "Palmirsky Sugar Plant" LLC: 49°46'42.00" N 32°9'45.00" E	OK	ОК
-	Are the technology(ies) to be employed, or measures, operations or actions to be implemented by the project, including all relevant technical data and the implementation schedule described?	The summary of activities to be implemented within the project boundary is listed in the section A.4.2 of the PDD.	ОК	ОК
	ation of how the anthropogenic emissions of ission reductions would not occur in the abse	greenhouse gases by sources are to be reduced by the pr ence of the proposed project, taking into account national		
-	Is it stated how anthropogenic GHG emission reductions are to be achieved? (This section should not exceed one page)	Yes, it is stated in the PDD how anthropogenic GHG emission reductions are to be achieved by the proposed project.	OK	ОК
-	Is it provided the estimation of emission reductions over the crediting period?	<u>Corrective Action Request 08:</u> Please provide the reference on the relevant Excel spreadsheet with calculations.	CAR 08	ОК
-	Is it provided the estimated annual reduction for the chosen credit period in tCO ₂ e?	Yes, the estimated annual reduction for the proposed crediting period is provided in tCO_2e .	CAR 09	ОК



DVM Deregraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
Paragraph		Corrective Action Request 00	Conclusion	Conclusion
		Corrective Action Request 09 Please provide in the Section A.4.3.1 the total amount of		
		emission reductions estimated for the crediting period.		
-	Are the data from questions above presented in	Yes.	ОК	ОК
-	tabular format?	1 65.	ÖK	OR
Estimated a	amount of emission reductions over the creditir	ig period		
-	Is the length of the crediting period Indicated?	Yes, the duration of the crediting period is 20 years.	OK	OK
-	Are estimates of total as well as annual and	Yes, the estimates of total as well as annual and average	OK	ОК
	average annual emission reductions in tonnes	annual emission reductions in tonnes of CO ₂ equivalent are		
	of CO2 equivalent provided?	provided in section A.4.3.1 of the PDD.		
Project app	rovals by Parties			
19	Have the DFPs of all Parties listed as "Parties	Corrective Action Request 10	CAR 10	Pending
	involved" in the PDD provided written project	The names of the DFP (of the Parties involved) authorizing	CAR 11	
	approvals?	the project have to be indicated in the Section A.5.		
		Corrective Action Request 11		
		There are no Letters of Approval from the Parties involved.		
19	Does the PDD identify at least the host Party	Yes, Ukraine is the host Party.	OK	ОК
	as a "Party involved"?		•	•
19	Has the DFP of the host Party issued a written	Refer to CAR 11 above.	Pending	Pending
	project approval?			, energy
20	Are all the written project approvals by Parties	Refer to CAR 11 above.	Pending	Pending
	involved unconditional?		5	Ŭ
Authorizati	on of project participants by Parties involved			
21	Is each of the legal entities listed as project	Refer to CAR 11 above.	Pending	Pending
	participants in the PDD authorized by a Party		0	
	involved, which is also listed in the PDD,			
	through:			
	- A written project approval by a Party			
	involved, explicitly indicating the name of the			



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	legal entity? or – Any other form of project participant authorization in writing, explicitly indicating the name of the legal entity?			
Baseline se	tting			
22	Does the PDD explicitly indicate which of the following approaches is used for identifying the baseline? – JI specific approach – Approved CDM methodology approach	The PDD describes the JI specific approach which is used for setting the baseline. <u>Corrective Action Request 12:</u> The PDD doesn't explicitly state the approach chosen for setting the baseline. Please correct.	CAR 12	OK
JI specific a	pproach only			1
23	Does the PDD provide a detailed theoretical description in a complete and transparent manner?	Yes, the PDD provides a detailed theoretical description of the project in a complete and transparent manner.	OK	ОК
23	Does the PDD provide justification that the baseline is established: (a) By listing and describing plausible future scenarios on the basis of conservative assumptions and selecting the most plausible one? (b) Taking into account relevant national and/or sectoral policies and circumstance? - Are key factors that affect a baseline taken into account? (c) In a transparent manner with regard to the choice of approaches, assumptions, methodologies, parameters, date sources and key factors? (d) Taking into account of uncertainties and using conservative assumptions?	The PDD provides justification that the baseline is established by listing and describing plausible future scenarios on the basis of conservative assumptions and selecting the most plausible one.	ОК	ОК



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	 (e) In such a way that ERUs cannot be earned for decreases in activity levels outside the project or due to force majeure? (f) By drawing on the list of standard variables contained in appendix B to "Guidance on criteria for baseline setting and monitoring", as appropriate? 			
24	If selected elements or combinations of approved CDM methodologies or methodological tools for baseline setting are used, are the selected elements or combinations together with the elements supplementary developed by the project participants in line with 23 above?	"Combined tool to identify the baseline scenario and demonstrate additionality" (version 04.0.0) was used for baseline setting and demonstration of additionality. <i>Guidelines for objective demonstration and assessment of</i> <i>barriers</i> (version 01) were also taken into account.	ОК	ОК
25	If a multi-project emission factor is used, does the PDD provide appropriate justification?	Not applicable	N/A	N/A
	CDM methodology approach only – Not Applical	ble		
Additionalit	y approach only			
28	Does the PDD indicate which of the following approaches for demonstrating additionality is used? (a) Provision of traceable and transparent information showing the baseline was identified on the basis of conservative assumptions, that the project scenario is not part of the identified baseline scenario and that the project will lead to emission reductions or enhancements of removals; (b) Provision of traceable and transparent information that an AIE has already positively determined that a comparable project (to be)	The Section B.1 of the PDD provides the analysis of the project additionality showing that the project scenario is not part of the identified baseline scenario and that the project will lead to emission reductions. The analysis was performed based on the "Combined tool to identify the baseline scenario and demonstrate additionality" (version 04.0.0) approved by the CDM Executive Board and fully applicable for JI projects.	ОК	ОК



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	 implemented under comparable circumstances has additionality; (c) Application of the most recent version of the "Tool for the demonstration and assessment of additionality. (allowing for a twomonth grace period) or any other method for proving additionality approved by the CDM Executive Board". 			
29 (a)	Does the PDD provide a justification of the applicability of the approach with a clear and transparent description?	The barrier analysis and common practice analysis are used for the demonstration of project activity additionality.	ОК	OK
29 (b)	Are additionality proofs provided?	Yes, the additionality proofs are provided in the Section B.1 of the PDD.	ОК	OK
29 (c)	Is the additionality demonstrated appropriately as a result?	Corrective Action Request 13: The PDD doesn't indicate how registration of the project as JI activity will aid to overcoming the barriers.	CAR 13	ОК
30	If the approach 28 (c) is chosen, are all explanations, descriptions and analyses made in accordance with the selected tool or method?	All explanations, descriptions and analyses were made in accordance with "Combined tool to identify the baseline scenario and demonstrate additionality" (Version 04.0.0).	OK	OK
	DM methodology approach only - Not applicab			
	ndary (applicable except for JI LULUCF project	S		
32 (a)	pproach only Does the project boundary defined in the PDD	Corrective Action Request 14	CAR 14	OK
52 (a)	 encompass all anthropogenic emissions by sources of GHGs that are: (i) Under the control of the project participants? (ii) Reasonably attributable to the project? (iii) Significant? 	Please provide the reference on Guidance mentioned in the Section B.3		



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
32 (b)	Is the project boundary defined on the basis of a case-by-case assessment with regard to the criteria referred to in 32 (a) above?	Yes, the project boundary is defined on the basis of a case- by-case assessment with regard to the criteria referred to in 32 (a) above.	OK	OK
32 (c)	Are the delineation of the project boundary and the gases and sources included appropriately described and justified in the PDD by using a figure or flow chart as appropriate?	Yes, the project boundary is provided in the Figure 3 and Figure 4 and in tabular format in the Table 11.	ОК	ОК
32 (d)	Are all gases and sources included explicitly stated, and the exclusions of any sources related to the baseline or the project are appropriately justified?	Please refer to the CAR 14 above.	ОК	ОК
Approved C	DM methodology approach only			
33	Is the project boundary defined in accordance with the approved CDM methodology?	Not applicable	N/A	N/A
Crediting pe	eriod			
34 (a)	Does the PDD state the starting date of the project as the date on which the implementation or construction or real action of the project will begin or began?	18/01/2005 is the starting date of the project. It is the date of making the decision on project implementation	ОК	ОК
34 (a)	Is the starting date after the beginning of 2000?	Yes.	OK	OK
34 (b)	Does the PDD state the expected operational lifetime of the project in years and months?	20 years (240 months). <u>Clarification Request 01:</u> Please specify the expected operational lifetime of the project, also provide the documented evidence of equipment operation.	CL 01	OK
34 (c)	Does the PDD state the length of the crediting period in years and months?	<u>Corrective Action Request 15</u> Please indicate the total duration of the crediting period <u>Clarification Request 02</u> Please clarify the date of "the end of the crediting period" in	CAR 15 CL 02 CL 03	ОК



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		the Section C.3. <u>Clarification Request 03:</u> Please indicate in section C.3 length of the crediting period after the first commitment period.		
34 (c)	Is the starting date of the crediting period on or after the date of the first emission reductions or enhancements of net removals generated by the project?	Yes, the starting date of the crediting period is after the date of the first emission reductions generated by the project.	OK	ОК
34 (d)	Does the PDD state that the crediting period for issuance of ERUs starts only after the beginning of 2008 and does not extend beyond the operational lifetime of the project?	Clarification Request 04: Please specify that the crediting period for issuance of ERUs starts only after the beginning of 2008 and does not extend beyond the operational lifetime of the project.	CL 04	ОК
34 (d)	If the crediting period extends beyond 2012, does the PDD state that the extension is subject to the host Party approval? Are the estimates of emission reductions or enhancements of net removals presented separately for those until 2012 and those after 2012?	<u>Clarification Request 05:</u> Please specify that if the crediting period extends beyond 2012, such extension is subject to the host Party approval.	CL 05	ОК
Monitoring				
35	Does the PDD explicitly indicate which of the following approaches is used? – JI specific approach – Approved CDM methodology approach	JI specific approach was used.	OK	ОК
	approach only			
36 (a)	 Does the monitoring plan describe: All relevant factors and key characteristics that will be monitored? The period in which they will be monitored? All decisive factors for the control and reporting of project performance? 	<u>Corrective Action Request 16:</u> Please provide the information on key characteristics and their monitoring during the project activity in tabular format.	CAR 16	OK



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
36 (b)	Does the monitoring plan specify the indicators, constants and variables used that are reliable, valid and provide transparent picture of the emission reductions or enhancements of net removals to be monitored?	Yes, the monitoring plan specifies the indicators, constants and variables used that are reliable, valid and provide transparent picture of the emission reductions to be monitored.	ОК	ОК
36 (b)	If default values are used: – Are accuracy and reasonableness carefully balanced in their selection? – Do the default values originate from recognized sources? – Are the default values supported by statistical analyses providing reasonable confidence levels? – Are the default values presented in a transparent manner?	<u>Corrective Action Request 17:</u> There is no reference on source and page for some parameters (e. g. <i>f</i> - share of methane being captured and utilized at the disposal site) used for the ERUs calculation. Please correct.	CAR 17	ОК
36 (b) (i)	For those values that are to be provided by the project participants, does the monitoring plan clearly indicate how the values are to be selected and justified?	Yes. The monitoring plan clearly indicates how the values are to be selected and justified.	OK	ОК
36 (b) (ii)	For other values, – Does the monitoring plan clearly indicate the precise references from which these values are taken? – Is the conservativeness of the values provided justified?	<u>Corrective Action Request 18:</u> Please indicate why the data from IPCC 2006 instead of National Inventory are used.	CAR 18	ОК
36 (b) (iii)	For all data sources, does the monitoring plan specify the procedures to be followed if expected data are unavailable?	Corrective Action Request 19: Please indicate in the PDD the procedure to be followed if expected data are unavailable.	CAR 19	ОК
36 (b) (iv)	Are International System Unit (SI units) used?	Yes.	OK	OK
36 (b) (v)	Does the monitoring plan note any parameters, coefficients, variables, etc. that are used to calculate baseline emissions or net removals	Yes, the amount of sugar production organic waste (pulp), that was not sold within period x and was transported to the disposal site is used in calculations of baseline scenario and	CL 06	ОК



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	but are obtained through monitoring?	are obtained through monitoring. <u>Clarification Request 06:</u> Please provide information on how to obtain data "Number sugar production waste (pulp) that have not been implemented by the period x and hit the ground"		
36 (b) (v)	Is the use of parameters, coefficients, variables, etc. consistent between the baseline and monitoring plan?	Yes, the use of parameters, coefficients, variables, etc. Is consistent between the baseline and monitoring plan.	ОК	ОК
36 (c)	Does the monitoring plan draw on the list of standard variables contained in appendix B of "Guidance on criteria for baseline setting and monitoring"?	The monitoring plan is developed in accordance with the "Guidance on criteria for baseline setting and monitoring".	ОК	ОК
36 (d)	Does the monitoring plan explicitly and clearly distinguish: (i) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination? (ii) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination? (iii) Data and parameters that are monitored throughout the crediting period), but that are not already available at the stage of determination? (iii) Data and parameters that are monitored throughout the crediting period?	Yes, all the relevant parameters are described (refer to the Section D.1 of the PDD).	OK	OK
36 (e)	Does the monitoring plan describe the methods employed for data monitoring (including its frequency) and recording?	The Table in the Section D.1.1 of the PDD defines the frequency of monitoring and data sources for all parameters and data to be monitored.	OK	OK



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
36 (f)	Does the monitoring plan elaborate all algorithms and formulae used for the estimation/calculation of baseline emissions/removals and project emissions/removals or direct monitoring of emission reductions from the project, leakage, as appropriate?	The PDD describes all algorithms and formulae used for the calculation of baseline and project emissions.		OK
36 (f) (i)	Is the underlying rationale for the algorithms/formulae explained?	Yes, the underlying rationale for the algorithms/formulae is explained.	OK	ОК
36 (f) (ii)	Are consistent variables, equation formats, subscripts etc. used?	Yes, consistent variables, equation formats, subscripts etc. are used. <u>Corrective Action Request 20</u> Please indicate data sources for the parameters used in calculations per the provided formulas.	CAR 20	ОК
36 (f) (iii)	Are all equations numbered?	Yes. <u>Corrective Action Request 21</u> Please make amendments in the numbering of formulas, making it consistent.	CAR 21	OK
36 (f) (iv)	Are all variables, with units indicated defined?	Yes.	OK	OK
36 (f) (v)	Is the conservativeness of the algorithms/procedures justified?	Yes, the documents analysis justifies the conservativeness of the algorithms/procedures.	OK	ОК
36 (f) (v)	To the extent possible, are methods to quantitatively account for uncertainty in key parameters included?	The level of data uncertainty is provided in the quality control and assurance table (refer to the section D.2 of the PDD). Taking into account that almost all data and parameters are based on the statistical data and calibrated measuring equipment recordings of a certain class of accuracy and tested by the official energy resources supplier and state bodies, their level of uncertainty is considered as low.	ОК	ОК
36 (f) (vi)	Is consistency between the elaboration of the	Yes.	OK	ОК



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	baseline scenario and the procedure for calculating the emissions or net removals of the baseline ensured?			
36 (f) (vii)	Are any parts of the algorithms or formulae that are not self-evident explained?	No, all the algorithms and formulae are explicitly explained.	OK	OK
36 (f) (vii)	Is it justified that the procedure is consistent with standard technical procedures in the relevant sector?	Clarification Request 07: Please provide information about what used calculation procedure parameter ${}^{\text{w}}P_{x}$ - sugar production waste (pulp) that have not been realized and hit the ground" is consistent with standard technical procedures used in the production of sugar	CL 07	ОК
36 (f) (vii)	Are references provided as necessary?	Please refer to CAR 17.	OK	OK
36 (f) (vii)	Are implicit and explicit key assumptions explained in a transparent manner?	Yes, implicit and explicit key assumptions are explained in a transparent manner.	ОК	OK
36 (f) (vii)	Is it clearly stated which assumptions and procedures have significant uncertainty associated with them, and how such uncertainty is to be addressed?	Used assumptions and procedures do not have any significant uncertainty associated with them.	ОК	ОК
36 (f) (vii)	Is the uncertainty of key parameters described and, where possible, is an uncertainty range at 95% confidence level for key parameters for the calculation of emission reductions or enhancements of net removals provided?	Level of uncertainty is indicated as low.	ОК	ОК
36 (g)	Does the monitoring plan identify a national or international monitoring standard if such standard has to be and/or is applied to certain aspects of the project? Does the monitoring plan provide a reference as to where a detailed description of the standard can be found?	All the monitoring plans used in the proposed monitoring plan are the common practice for Ukraine on power metering.	ОК	ОК
36 (h)	Does the monitoring plan document statistical	Refer to CAR 10.	OK	OK



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	techniques, if used for monitoring, and that they are used in a conservative manner?			
36 (i)	Does the monitoring plan present the quality assurance and control procedures for the monitoring process, including, as appropriate, information on calibration and on how records on data and/or method validity and accuracy are kept and made available upon request?	The quality assurance and control procedures for the monitoring process are described in the Section D.2 of the PDD.	ОК	OK
36 (j)	Does the monitoring plan clearly identify the responsibilities and the authority regarding the monitoring activities?	Yes, the monitoring plan in the Section D.3 of the PDD clearly identifies the responsibilities and authorities regarding the monitoring activities.	OK	OK
36 (k)	Does the monitoring plan, on the whole, reflect good monitoring practices appropriate to the project type? If it is a JI LULUCF project, is the good practice guidance developed by IPCC applied?	<u>Corrective Action Request 22:</u> The Section D.1.5 of the PDD requires from the project participants to indicate the information on data collection and archivation concerning the environmental impact and to provide references on the relevant Host Party regulations. Please make the relevant corrections.	CAR 22	ОК
36 (I)	Does the monitoring plan provide, in tabular form, a complete compilation of the data that need to be collected for its application, including data that are measured or sampled and data that are collected from other sources but not including data that are calculated with equations?	Yes, all the parameters are provided in Sections D.1.1.1 and D.1.1.3 of the PDD.	ОК	ОК
36 (m)	Does the monitoring plan indicate that the data monitored and required for verification are to be kept for two years after the last transfer of ERUs for the project?	Refer to CAR 12.	ОК	ОК
37	If selected elements or combinations of approved CDM methodologies or methodological tools are used for establishing the monitoring plan, are the selected elements	No elements or combinations of approved CDM methodologies or methodological tools are used in the monitoring plan.	OK	ОК



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	or combination, together with elements supplementary developed by the project participants in line with 36 above?			
	DM methodology approach only – Not applicat to both JI specific approach and approved CDN			
39	If the monitoring plan indicates overlapping monitoring periods during the crediting period: (a) Is the underlying project composed of clearly identifiable components for which emission reductions or enhancements of removals can be calculated independently? (b) Can monitoring be performed independently for each of these components (i.e. the data/parameters monitored for one component are not dependent on/effect data/parameters to be monitored for another component)? (c) Does the monitoring plan ensure that monitoring is performed for all components and that in these cases all the requirements of the JI guidelines and further guidance by the JISC regarding monitoring plan explicitly provide for overlapping monitoring periods of clearly defined project components, justify its need and state how the conditions mentioned in (a)- (c) are met?	No overlapping of monitoring periods is envisaged during the crediting period.	OK	OK
Leakage JI specific a 40 (a)	pproach only Does the PDD appropriately describe an assessment of the potential leakage of the project and appropriately explain which sources of leakage are to be calculated and which can	No leakages are envisaged by the proposed project activity.	ОК	ОК



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	be neglected?			
40 (b)	Does the PDD provide a procedure for an ex ante estimate of leakage?	No leakages are envisaged by the proposed project activity.	OK	OK
	CDM methodology approach only – Not applicat			
Estimation	of emission reductions or enhancements of net	removals		
42	Does the PDD indicate which of the following approaches it chooses? (a) Assessment of emissions or net removals in the baseline scenario and in the project scenario (b) Direct assessment of emission reductions	Baseline and project scenario emissions were assessed.	ОК	ОК
43	If the approach (a) in 42 is chosen, does the PDD provide ex ante estimates of: (a) Emissions or net removals for the project scenario (within the project boundary)? (b) Leakage, as applicable? (c) Emissions or net removals for the baseline scenario (within the project boundary)? (d) Emission reductions or enhancements of net removals adjusted by leakage?	The PDD provides ex ante estimates of the project and baseline scenarios, and also emissions reduction. The estimated results are provided in the Section E of the PDD, and also in the Excel spreadsheets.	ОК	ОК
44	If the approach (b) in 42 is chosen, does the PDD provide ex ante estimates of: (a) Emission reductions or enhancements of net removals (within the project boundary)? (b) Leakage, as applicable? (c) Emission reductions or enhancements of net removals adjusted by leakage?	Not applicable	N/A	N/A
45	 For both approaches in 42 (a) Are the estimates in 43 or 44 given: (i) On a periodic basis? (ii) At least from the beginning until the end of the crediting period? 	Emission reductions calculation provided in the PDD of the proposed project complies with all the requirements envisaged by the DVM section 45.	ОК	ОК





DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	removals calculated by dividing the total estimated emission reductions or enhancements of net removals over the crediting period by the total months of the crediting period and multiplying by twelve?			
46	If the calculation of the baseline emissions or net removals is to be performed ex post, does the PDD include an illustrative ex ante emissions or net removals calculation?	Yes, the PDD includes an illustrative ex ante emissions calculation.	ОК	OK
Approved C Environmer	DM methodology approach only – Not applicat	ble		
48 (a)	Does the PDD list and attach documentation on the analysis of the environmental impacts of the project, including transboundary impacts, in accordance with procedures as determined by the host Party?	<u>Corrective Action Request 23:</u> The information on transboundary impacts of the project provided in the PDD has to be transparent and justified.	CAR 23	ОК
48 (b)	If the analysis in 48 (a) indicates that the environmental impacts are considered significant by the project participants or the host Party, does the PDD provide conclusion and all references to supporting documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party?	All activities under the project do not envisage any negative impacts on the environment; therefore no EIA was specifically developed for this project.	ОК	ОК
Environmer	tal impacts			
49	If stakeholder consultation was undertaken in accordance with the procedure as required by the host Party, does the PDD provide: (a) A list of stakeholders from whom comments on the projects have been received, if any? (b) The nature of the comments?	The procedures of Ukraine don't require any stakeholder consultation concerning the proposed project.	ОК	ОК



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DVM	Check Item	Initial finding	Draft	Final				
Paragraph			Conclusion	Conclusion				
	(c) A description on whether and how the							
	comments have been addressed?							
Determinati	Determination regarding small-scale projects (additional elements for assessment) – Not applicable							
Determinati	Determination regarding land use, land-use change and forestry projects (additional/alternative elements for assessment) – Not applicable							
	Determination regarding programmes of activities (additional/alternative elements for assessment) Not applicable							

Table 2 Resolution of Corrective Action and Clarification Requests

Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in table 1	Summary of project participant response	Determination team conclusion
Corrective Action Request 01 Please add brief description of the baseline scenario.	-	The brief description of the baseline scenario is provided in the Section A.2. of the PDD version 2.0.	The issue is closed.
Corrective Action Request 02 Please add technical summery of the project scenario.	-	The technical summery of the project scenario is provided in the Section A.2. of the PDD version 2.0.	The issue is closed.
<u>Corrective Action Request 03</u> Please use in the PDD the font prescribed by the JI PDD Form, version 01.	-	The right font size (11) is used in the PDD version 2.0.	The issue is closed.



Corrective Action Request 04 Please specify the starting date of the project and provide the justifying document to the AIE.	-	18/01/2005 is the starting date of the project. It is the date of coming into force of the Order on appointment of working team responsible for enterprise technical rehabilitation and production organic wastes utilization improvement issued by the ALC "Palmirsky sugar plant". This document was provided to AIE during correspondence. Similar information was added in the PDD version 2.0. See section C.1 the PDD.	The issue is closed.
Corrective Action Request 05 The Table A.3 of the PDD has to comply with the format envisaged by the Guidelines for Users of the JI PDD Form, version 04.	-	The table A.3 of the PDD version 2.0 was provided in the relevant format.	The issue is closed.
Corrective Action Request 06 Old information concerning KVED types of economic activities is presented in Annex 1. Please update the information as per valid certificate.	-	The require information was corrected in the PDD version 2.0.	The issue is closed.
Corrective Action Request 07 The Section A.4.1 has to comply with the format envisaged by the Guidelines for Users of the JI PDD Form, version 04.	-	The Section A.4.1 was correspondingly amended in the PDD version 2.0.	The issue is closed.
<u>Corrective Action Request 08</u> Please provide the reference on the relevant Excel spreadsheet with calculations.	-	The reference on Excel spreadsheet with calculations was added to the Section A.4.3.1 and the Section E. Please refer to the updated PDD version 2.0	The issue is closed.



<u>Corrective Action Request 09</u> Please provide in the Section A.4.3.1 the total amount of emission reductions estimated for the crediting period.	-	The PDD version 2.0 was amended correspondingly.	The issue is closed.
<u>Corrective Action Request 10</u> The names of the DFP (of the Parties involved) authorizing the project have to be indicated in the Section A.5.	19	The information will be provided later.	Pending
<u>Corrective Action Request 11</u> There are no Letters of Approval from the Parties involved.	19	As per the procedures of the Parties involved the relevant Letters of Approval will be provided after issuance of the positive determination report.	Pending
Corrective Action Request 12 The PDD doesn't explicitly state the approach chosen for setting the baseline. Please correct.	22	Project participants chose an approach for baseline setting and monitoring developed in accordance with appendix B of the JI guidelines (JI specific approach). The relevant information was added to the Section B.1 of the PDD version 2.0.	The issue is closed.

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n the Section B.1, the The issue is closed.
prevents the project
inancial. As a result of
ise gas emission
ed revenues of about
or 19 million UAH,
45% required for the
are weighty argument
vision on the project.
in joint implementation ates barriers for the
was indicated in the
PDD version 2.0.
Guidance mentioned in The issue is closed.
s provided in the PDD
s provided in the PDD The issue is closed.
n C.3.
10.5.
the crediting period is The issue is closed.
months (01/01/2008-
nation was provided in
he PDD version 2.0.
d of crediting period is The issue is closed.
levant information was
ection C.3 of the PDD



Clarification Request 03 Please clarify the date (3 years or 36 months (01/08/2005-31/12/2007) indicated in the phrase "the Length of the period before the first crediting period" in Section C.3	34 (c)	The information was provided mistakenly. The PDD version 2.0 now contains appropriate information.	The issue is closed.
<u>Clarification Request 04</u> Please specify that the crediting period for issuance of ERUs starts only after the beginning of 2008 and does not extend beyond the operational lifetime of the project.	34 (d)	The relevant information was provided in the Section C.3 of the PDD version 2.0.	The issue is closed.
Clarification Request 05 Please specify that if the crediting period extends beyond 2012, such extension is subject to the host Party approval.	34 (d)	Status of emission reductions or enhancements of removals generated by JI project after the first commitment period under the Kyoto Protocol (extension of the crediting period after 2012) may be determined in accordance with relevant arrangements and procedures under the UNFCCC and host Party. The relevant information was provided in the Section C.3 of the PDD version 2.0.	The issue is closed.
Corrective Action Request 16 Please provide the information on key characteristics and their monitoring during the project activity in tabular format.	36 (a)	The information on key characteristics and their monitoring during the project activity was provided in tabular format in the PDD version 2.0.	The issue is closed.

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Corrective Action Request 17 There is no reference on source and page for some parameters (e. g. f - share of methane being captured and utilized at the disposal site) used for the ERUs calculation. Please correct.	In this case, the source for this parameter is the data provided by the project owner. No technologies or units for landfill gas (which contains methane) capture were used at the landfill for pulp utilization Reference on project owner data was added to the PDD version 2.0.	The issue is closed.



Corrective Action Deguant 10:	26 (h) (!!)	Indeed at the memory of the DDD	The issue is closed
Corrective Action Request 18:	36 (b) (ii)	Indeed, at the moment of the PDD	The issue is closed.
Please indicate why the data from IPCC 2006		design, the National Inventory Report	
instead of National Inventory are used.		contained the values of some variables	
		used for calculations in this project (DOC	
		and MCF parameters). The reasons of	
		using the data from IPCC instead of	
		National Inventory are the following:	
		1. Data indicated in the National Inventory	
		is the average data for all solid waste	
		landfills assessed based on the average	
		morphological content of solid wastes	
		located at the disposal site. IPCC data is	
		used for the project, because they fully	
		match the type of the project wastes -	
		pulp.	
		2. IPCC data is reliable and conservative	
		data source. Their usage doesn't lead to	
		overestimation of the project ER	
		calculation results which is justified by the	
		huge amount of registered JI projects.	
Corrective Action Request 10	26 (b) (:::)		The issue is closed
Corrective Action Request 19	36 (b) (iii)	Project implementation is under the	The issue is closed.
Please indicate in the PDD the procedure to be		control of special appointed team which is	
followed if expected data are unavailable.		responsible for collection, archivation and	
		storage of documentation relevant to the	
		project. All information is stored on hard	
		and electronic copies. Thus it makes the	
		possibility of any data from any sources	
		absence very low.	



	1		
Clarification request 06	36 (b) (v)	The Section D.2 of the PDD version 2.0	The issue is closed.
Please provide the information on identifying the		was appropriately modified.	
amount of sugar production organic waste, that			
was not sold and was transported to the disposal			
site.			
Corrective Action Request 20	36 (f) (ii)	Data sources were indicated and	The issue is closed.
Please indicate data sources for the parameters		specified in the PDD version 2.0.	
used in calculations per the provided formulas.			
Corrective Action Request 21	36 (f) (iii)	The numbering of formulas was corrected	The issue is closed.
Please make amendments in the numbering of		in the PDD version 2.0.	
formulas, making it consistent.			
Clarification request 07	36 (f) (vii)	The Section D.2 of the PDD version 2.0	The issue is closed.
Please provide the information that the calculation		was appropriately modified. Yes, the	
procedure of Px - the amount of sugar production		calculation procedure of Px - the amount	
organic waste, that was not sold and was		of sugar production organic waste, that	
transported to the disposal site complies with the		was not sold and was transported to the	
standard technical procedures used in the sugar		disposal site complies with the standard	
production industry.		technical procedures used in the sugar	
		production industry.	
Corrective Action Request 22	36 (k)	There is no negative environmental	The issue is closed.
The Section D.1.5 of the PDD requires from the		impact as the result of project	
project participants to indicate the information on		implementation. It is not applicable as per	
data collection and archivation concerning the		the regulations of the host Party.	
environmental impact and to provide references		The relevant information was added to	
on the relevant Host Party regulations. Please		the PDD version 2.0.	
make the relevant corrections.			

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Corrective Action Request 23	48 (a)	Since the project does not lead to	The issue is closed.
The information on transboundary impacts of the		negative impacts on the environment,	
project provided in the PDD has to be transparent		transboundary impacts that occur in any	
and justified.		other country, and are caused by	
		implementation of this project, which is	
		physically located entirely within Ukraine,	
		are absent.	
		The relevant information was added to	
		the PDD version 2.0.	