

## VERIFICATION REPORT SIA "VIDZEME EKO"

# VERIFICATION OF THE "DISMANTLING OF WASTE HEAP AT FORMER "BOGUCHARSKA-2" MINE"

INITIAL AND FIRST PERIODIC FOR PERIOD 02/01/2009-31/07/2012

REPORT NO. UKRAINE-VER/0662/2012
REVISION NO. 01

**BUREAU VERITAS CERTIFICATION** 



## VERIFICATION REPORT: "DISMANTLING OF WASTE HEAP AT FORMER "BOGUCHARSKA-2" MINE"

| Date of first issue: 29/08/2012 | Organizational unit: Bureau Veritas Certification |  |
|---------------------------------|---|--|
|                                 | Holding SAS                                       |  |
| Client:<br>SIA "Vidzeme Eko"    | Client ref.:<br>Victor Tkachenko                  |  |

Summary:

Bureau Veritas Certification has made the initial and 1<sup>st</sup> periodic verification of the "Dismantling of waste heap at former "Bogucharska-2" mine", project of SIA "Vidzeme Eko" located in Chervonopartysansk town, Sverdlovsk District Donetsk Region, Ukraine, and applying JI specific approach, on the basis of UNFCCC criteria for the JI, as well as criteria given to provide for consistent project operations, monitoring and reporting. 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.

The verification scope is defined as a periodic independent review and ex post determination by the Accredited Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the monitoring report against project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

The first output of the verification process is a list of Clarification, Corrective Actions Requests, Forward Actions Requests (CR, CAR and FAR), presented in Appendix A.

In summary, Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions. The GHG emission reduction is calculated accurately and without material errors, omissions, or misstatements, and the ERUs issued totalize 1991975 tonnes of CO2 equivalent for the monitoring period from 02/01/2009 to 31/07/2012 (573410 tonnes of CO2 equivalent for 02/01/2009-31/12/2009, 535138 tonnes of CO2 equivalent for 01/01/2010-31/12/2010, 553285 tonnes of CO2 equivalent for 01/01/2011-31/12/2011, 330142 tonnes of CO2 equivalent for 01/01/2012-31/07/2012).

| Report No.:<br>UKRAINE-ver/0662/2 |  | ject Group:                          |              |   |
|-----------------------------------|--|--------------------------------------|--------------|---|
| Project title:<br>DISMANTLING     |  |                                      |              |   |
| FORMER "BOG                       | UCHARS   | (A-2" MINE                           |              |   |
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## 1 INTRODUCTION

SIA "Vidzeme Eko" has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project "Dismantling of waste heap at former "Bogucharska-2" mine" (hereafter called "the project") at Chervonopartysansk town, Sverdlovsk District Donetsk Region, Ukraine.

This report summarizes the findings of the verification 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

Verification is the periodic independent review and ex post determination by the Accredited Independent Entity of the monitored reductions in GHG emissions during defined verification period.

The objective of verification can be divided in Initial Verification and Periodic Verification.

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

The verification is not meant to provide any consulting towards the Client. However, stated requests for clarifications, corrective and/or forward actions may provide input for improvement of the project monitoring towards reductions in the GHG emissions.

## 1.3 Verification Team

The verification team consists of the following personnel:

Vyacheslav Yeriomin

Bureau Veritas Certification Team Leader, Climate Change Verifier

Sergii Verteletskyi

Bureau Veritas Certification Climate Change Verifier

This verification report was reviewed by:

Ivan Sokolov

Bureau Veritas Certification. Internal Technical Reviewer

Nikolay Chekhmestrenko

Bureau Veritas Certification, Technical Specialist



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## 2 METHODOLOGY

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

In order to ensure transparency, a verification 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 verification and the results from verifying the identified criteria. The verification protocol serves the following purposes:

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

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

## 2.1 Review of Documents

The Monitoring Report (MR) submitted by SIA "Vidzeme Eko" and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD) and Guidance on criteria for baseline setting and monitoring, Host party criteria, Kyoto Protocol, Clarifications on Verification Requirements to be Checked by an Accredited Independent Entity were reviewed.

The verification findings presented in this report relate to the Monitoring Report version(s) 2.0 and project as described in the determined PDD.

## 2.2 Follow-up Interviews

On 15/08/2012 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 CE "Vtormet" and SIA "Vidzeme Eko" were interviewed (see References). The main topics of the interviews are summarized in Table 1.



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**Table 1 Interview topics** 

| Interviewed organization | Interview topics  |
|--------------------------|---|
| CE "Vtormet"             | Organizational structure                                      |
| oz violillot             | Responsibilities and authorities                              |
|                          | Roles and responsibilities for data collection and processing |
|                          | Installation of equipment                                     |
|                          | Data logging, archiving and reporting                         |
|                          | Metering equipment control                                    |
|                          | Metering record keeping system, database                      |
|                          | IT management   |
|                          | Training of personnel   |
|                          | Quality management procedures and technology                  |
|                          | Internal audits and check-ups                                 |
| CONSULTANT               | Baseline methodology  |
| SIA "Vidzeme Eko"        | Monitoring plan   |
|                          | Revisions of the monitoring plan                              |
|                          | Monitoring report   |
|                          | Deviations from the PDD                                       |

## 2.3 Resolution of Clarification, Corrective and Forward Action Requests

The objective of this phase of the verification 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 GHG emission reduction calculation.

If the Verification Team, in assessing the monitoring report and supporting documents, identifies issues that need to be corrected, clarified or improved with regard to the monitoring requirements, it should 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 that is not in accordance with the monitoring plan;
- (b) Clarification request (CL), requesting the project participants to provide additional information for the Verification Team to assess compliance with the monitoring plan;
- (c) Forward action request (FAR), informing the project participants of an issue, relating to the monitoring that needs to be reviewed during the next verification period.

The Verification 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 verification.



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

### 3 VERIFICATION CONCLUSIONS

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

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

The Clarification, Corrective and Forward Action Requests are stated, where applicable, in the following sections and are further documented in the Verification Protocol in Appendix A. The verification of the Project resulted in 6 Corrective Action Requests, 1 Clarification Requests, and 0 Forward Action Requests.

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

## 3.1 Remaining issues and FARs from previous verifications

One FAR is pending from determination process provided by Bureau Veritas Certification Holding SAS

FAR01

Please provide written project approvals from both Parties Involved.

Response

Letter of Approval #2361/23/7 has been issued by State Environment Investment Agency of Ukraine from 28/08/2012. Letter of approval has been presented to AIE. *Conclusion* 

The issue is closed based on documentation provided by SIA "Vidzeme Eko"

## 3.2 Project approval by Parties involved (90-91)

Letter of Approval #2361/23/7 has been issued by State Environment Investment Agency of Ukraine from 28/08/2012. Letter of Approval #12.2-02/11917 has been issued by Latvian Ministry of Environment Protection and regional development, from 17/08/2012.

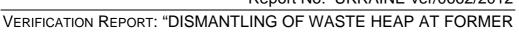
The abovementioned written approval is unconditional.

Identified problem areas for written project approvals from Parties involved, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A (See CAR01).

## 3.3 Project implementation (92-93)

Proposed project provides complete dismantling of the dump at the former mine "Bogucharska-2" with further reclamation of the area by restoring its fertile layer. During dismantling of the dump, the rocks will be divided into "BOGUCHARSKA-2" MINE"

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fractions, which will be used for blending with steam coal and subsequently supplied to heat power plants and boiler houses for burning as fuel. After sorting, the large fractions will be used for building and repairing of roads. As the result, rock mass of the dump will be fully utilized, and the received coal will replace coal, which otherwise would have had to be mined. As the result of the project, the opportunity of self-ignition of heap will be eliminated. An important component of the project is its second phase — complex reclamation of the area by restoring its fertile layer and full restoration of natural ecological community. This part of the project is required, but totally expensive, due to this mechanism of joint implementation was one of the prominent factors of the project from the beginning, and financial benefits as part of this mechanism considered one of the reasons of the project implementation.

CE "Vtormet" Ltd is engaged in the wholesale fuel industry and has considerable experience in excavation and mining, as well as in land reclamation and landscaping. CE "Vtormet" Ltd uses the dump of former "Bogucharska-2" mine on a legitimate basis.

The project provides the assemblage and installation of sorting rock mass complex of dump of former mine "Bogucharska-2" consisting of :

- Point of loading rock mass on Conveyor SP-202MS;
- -Point of sorting rock mass in classes 0-30 mm and 30 mm (vibrating inertial sifter GIL-52);
- Point of storage class 0-30 mm (sheds).

Class +30 mm is expected (as required under discharging tray of sifter) to be loaded in transports and delivered to customers for building and repairing of category 4-5 roads. Class 0-30 mm is expected to be loaded in transports, undergoes a mandatory procedure of weighting and is sent to the consumer for blending and subsequent combustion in the thermal power plants or boiler houses. Blending of fraction (0-30) with a steam coal allows to realize the fine finishing of quality the energy coal to the requirements of Standard 4083-2002, without compromising the quality of fuel on the one hand, but resulting in saving valuable energy coal on the other hand

Technological scheme of the complex is described as follows:

The rock mass, after been dismantled bulldozers T-170 is delivered to the feeding conveyor SP-202 by frontal loader HK 632L. Before the delivery of rock mass on the belt conveyor, the moisture is applied (humidity of raw materials does not exceed 8%) with sprinklers.

After bulldozers, layer by layer, get to the height, where the entrance road can be made- the combined method is used for the dump dismantling; further dismantling is made by excavator EO-5126 with the direct rock loading on the conveyor, or on the intermediate site, where, with the help of the loader, the rock is delivered to the scraper conveyor SP – 202



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Product of sorting class 0-30 through handling unit of sifter supplied on belt conveyor KLS. From the belt conveyor rock mass of class 0-30 mm through the handling unit of conveyor with built-in nozzles for humidification, emptied on the intermediate platform without significant accumulation, where loader HK 319L loads it in trucks or on a platform (warehouse) for storage. Warehouse is used if necessary without long-term storage. From storage the rock mass 0-30 mm by loader is loaded into trucks

The starting date of the project is considered 01/12/2008 – the date when decision on waste heap dismantling project implementation was approved by CE "Vtormet". The monitoring starting date 02/01/2009 is the date when dismantling of the waste heap was started. During the monitoring period project equipment was in work and waste heap dismantling was in continuous, without significant stops by technical problems or disasters. Project equipment works in two-shift cycle and stops by holidays.

CE "Vtormet" is Management Company without own their work capacities. CE "Vtormet" signed relevant contracts with following enterprises for required works

- Contractors of dismantling and sorting of dump: "MIRTA LUX" Ltd.;
- Renter of weighing works: "FINANS-MEDIA" Ltd.;
- Conducting the chemical analysis: "Tandem 2006" Ltd.

CE "Vtormet" buys coal containing rock mass from waste heap of 5-bis mine and sales sorted rock mass.

"MIRTA LUX" Ltd is owner of rock-transporting vehicles and sorting unit in stuff of conveyors SP-202, KSL and inertial sieve GIL-52.

Data on coal scales which is in ownership of "FINANS-MEDIA" Ltd.;, its calibration status and description of weighting process is provided in section 3.6 of Verification Report and section B of the Monitoring Report/Data on Chemical laboratory of "Tandem 2006" Ltd, list and calibration status of laboratory equipment, description of coal parameters definition are provided in the section B of Monitoring Report.

Enterprises-subcontractors of CE "Vtormet", list of sorting and laboratory equipment were not changed during the monitoring period.

Waste heap dismantling was provided during the site-visit time. Level of project activity is depends on steam coal demand on Ukraine inside market. Project owner doesn't keep sorted rock mass and produce it on consumers needs.

Difference between value of ERUs indicated in the PDD and value of ERUs in the Monitoring Report detected for period from 01/01/2012 till 31/07/2012 is explained in that way - coal demand is not constant and depends on steam coal demand on Ukraine inside market. Calculations in the PDD and MR are performed ex post.



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Identified problem areas for compliance of the project implementation status, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A (See CAR02, CL01).

## 3.4 Compliance of the monitoring plan with the monitoring methodology (94-98)

The monitoring occurred in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website.

For calculating the emission reductions, key factors, such as demand of energy-class coal at Ukraine market, availability of work power, local prices and availability of energy sources, such as electric energy and diesel fuel, policies and regulation in Ukraine mining and environmental protection sectors, economical situation in Ukraine energy and mining sectors 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 emission reductions, such as act on beneficiated coal containing mass acceptance-transmitting, acts on diesel fuel retirements, monthly bills on consumed by project equipment electric energy, statements on laboratory analyses, which use for identification ash content and moisture of beneficiated sorted fractions, statistical data of State statistical service of Ukraine and Ukraine ministry of coal industry, statistical researches of Scientific centre "Respirator" are clearly identified, reliable and transparent.

Emission factors, including default emission factors, are selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice. Values of emission factors for electricity consumption are used in accordance with relevant Orders of SEIA. Relevant values of coal net calorific value, oxidation factors for coal and diesel fuel, carbon content in coal are obtained from National Greenhouse Gases Inventory Report for 1990-2010 in Ukraine (NIR for 1990-2010 years). Data for diesel fuel was used from NIR for 1990-2010 years from outdoor vehicles.

Emission factor for fugitive methane emission from coal mining is obtained from NIR for 1990-2009. This value uses for conservativeness provision, so actual version of NIR for 1990-2010 contains only estimation of methane emissions from coal mining lowering tendency.

The calculation of emission reductions is based on conservative assumptions and the most plausible scenarios in a transparent manner.

Identified problem areas for compliance of the project monitoring plan with the monitoring methodology, project participants' responses and conclusions of





Bureau Veritas Certification are described in Annex A (See CAR03, CAR04).

## 3.5 Revision of monitoring plan (99-100)

"Not applicable"

## 3.6 Data management (101)

The data and their sources, provided in monitoring report, are clearly identified, reliable and transparent. List of data sources such as laboratory forecasts, invoices on sorted rock mass and diesel fuel, bills on consumed electric energy is provided in the Monitoring Report

The implementation of data collection procedures is in accordance with the monitoring plan, including the quality control and quality assurance procedures. These procedures are mentioned in the sections B and C of the Monitoring Report/

The function of the monitoring equipment, including its calibration status, is in order. Data on monitoring equipment, including its calibration and work status is provided

The evidence and records used for the monitoring are maintained in a traceable manner.

The data collection and management system for the project is in accordance with the monitoring plan.

Identified problem areas for compliance of the project data management, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A (See CAR05, CAR06).

## 3.7 Verification regarding programmes of activities (102-110)

"Not applicable"

### 4 VERIFICATION OPINION

Bureau Veritas Certification has performed the initial, 1<sup>st</sup> periodic verification of the "Dismantling of waste heap at former "Bogucharska-2" mine" Project in Chervonopartysansk town, Sverdlovsk District Donetsk Region, Ukraine, which applies JI specific approach. The verification 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 verification consisted of the following three phases: i) desk review of the monitoring report against the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.



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The management of SIA "Vidzeme Eko" is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project Monitoring and Verification Plan indicated in the final PDD version 2.0. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project, is the responsibility of the management of the project.

Bureau Veritas Certification verified the Project Monitoring Report version 2.0 for the reporting period as indicated below. Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions.

Bureau Veritas Certification can confirm that the GHG emission reduction is accurately calculated and is free of material errors, omissions, or misstatements. Our opinion relates to the project's GHG emissions and resulting GHG emissions reductions reported and related to the approved project baseline and monitoring, and its associated documents. Based on the information we have seen and evaluated, we confirm, with a reasonable level of assurance, the following statement:

| Reporting period: From 02/01/2009 to | 31/07/2012 |                                       |
|--------------------------------------|------------|---------------------------------------|
| Baseline emissions                   | : 1511127  | tonnes of CO2 equivalent.             |
| Project emissions                    | : 63413    | tonnes of CO2 equivalent.             |
| Leakages                             | : -544261  | tonnes of CO2 equivalent.             |
| Emission Reductions                  | : 1991975  | tonnes of CO <sub>2</sub> equivalent. |
| From 02/01/2009 to 31/12/2009        |            |                                       |
| Baseline emissions                   | : 433255   | tonnes of CO2 equivalent.             |
| Project emissions                    | : 17550    | tonnes of CO2 equivalent.             |
| Leakages                             | : -157705  | tonnes of CO2 equivalent.             |
| Emission Reductions                  | : 573410   | tonnes of CO <sub>2</sub> equivalent. |
| From 01/01/2010 to 31/12/2010        |            |                                       |
| Baseline emissions                   | : 405532   | tonnes of CO2 equivalent.             |
| Project emissions                    | : 17790    | tonnes of CO2 equivalent.             |
| Leakages                             | : -147396  | tonnes of CO2 equivalent.             |
| Emission Reductions                  | : 535138   | tonnes of CO <sub>2</sub> equivalent. |
| From 01/01/2011 to 31/12/2011        |            |                                       |
| Baseline emissions                   | : 421146   | tonnes of CO2 equivalent.             |
| Project emissions                    | : 17668    | tonnes of CO2 equivalent.             |





Leakages : -149807 tonnes of CO<sub>2</sub> equivalent. Emission Reductions : 553285 tonnes of CO<sub>2</sub> equivalent.

From 01/01/2012 to 31/07/2012

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## **5 REFERENCES**

## **Category 1 Documents:**

Documents provided by SIA "Vidzeme Eko" that relate directly to the GHG components of the project.

- /1/ Project Design Document "Dismantling of waste heap at former "Bogucharska-2" mine" version 2.0 dated 17/08/2012
- Monitoring Report "Dismantling of waste heap at former "Bogucharska-2" mine" /2/ version 1.0 dated 26/08/2012
- /3/ "Dismantling of waste heap at former "Bogucharska-2" mine" version 2.0 dated 30/08/2012
- /4/ ERUs calculation Excel-file "CalculationBogucharska-2MR.xls"
- /5/ Letter of Approval #2361/23/7 dated 28/08/2012 issued by State Environment Investment Agency of Ukraine
- Letter of Approval #12.2-02/11917 dated 17/08/2012 issued by Latvian ministry /6/ of Environment Protection and Regional Development

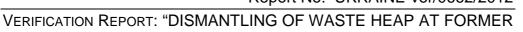
## **Category 2 Documents:**

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

- Passport of the dump under dismantling /1/
- /2/ Passport. Automobile scales electronic tensometric VTA-60
- /3/ Act of admission and transmission of the waste heap from 17/11/2008 between SPE "Metallgrupp" and CE "Vtormet" Ltd.
- /4/ Agreement # 17/11/08-2 from 17/11/2008 between SPE "Metallgrupp" and CE "Vtormet" Ltd.
- /5/ Delivery contract of Carbonaceous fraction between "MERIDIAN 2008" Ltd and "AMG DEVELOPMENT" Ltd # 266 from 18/11/2008 (in Russian).
- Delivery contract of Carbonaceous fraction between "MIRTA-LUX" Ltd. and /6/ "TH ICC REGION-STAL" Ltd # 316 from 03/01/2012 (in Russian)...
- Agreement of subcontract # 266 from 18/11/2008 between "MERIDIAN" /7/ 2008" Ltd and "ASKANIYA 2008" Ltd on the works of the dump dismantling
- Agreement of subcontract # 302 from 03/01/2012 between "MIRTA-LUX" /8/ Ltd. and "FINANS-MEDIA" Ltd on the works of the dump dismantling
- Agreement of subcontract # 171 from 18/11/2008 between CE "Vtormet" /9/ Ltd.(Customer) and ""MERIDIAN 2008" Ltd.(Performer) on the works of the dump dismantling
- /10/ Agreement of subcontract # 31125 from 03/01/2008 between CE "Vtormet" Ltd.(Customer) and "MIRTA-LUX" Ltd. (Performer) on the works of the dump dismantling
- /11/ Act of performed work of weighing from 01/06/09 of 55159.15 tons of carbonaceous rocks
- /12/ Act of admission and transmission of performed work from 01/06/09 for

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6615174.85 UAH. and calculation of the costs for the act of performed works.

- /13/ Sales invoice# 43 for 55159.15 tons of Carbonaceous rocks
- /14/ Act of performed work of weighing from 01/04/10 of 52227.55 tons of carbonaceous rocks
- /15/ Act of admission and transmission of performed work from 01/04/10 for 6 418 687.98 UAH. and calculation of the costs for the act of performed works.
- /16/ Sales invoice# 43 for 52227.55 tons of Carbonaceous rocks
- /17/ Act of performed work of weighing from 01/10/10 of 53517.15 tons of carbonaceous rocks
- /18/ Act of admission and transmission of performed work from 01/10/10 for 6 573 293.63 UAH. and calculation of the costs for the act of performed works.
- /19/ Sales invoice# 93 for 53517.15 tons of Carbonaceous rocks
- /20/ Act of performed work of weighing from 01/02/11 of 51926.65 tons of carbonaceous rocks
- /21/ Act of admission and transmission of performed work from 01/02/11 for 6 297 770.63 UAH. and calculation of the costs for the act of performed works
- /22/ Sales invoice# 13 for 51926.65 tons of Carbonaceous rocks
- /23/ Act of performed work of weighing from 01/11/11 of 52576.05 tons of carbonaceous rocks
- /24/ Act of admission and transmission of performed work from 01/11/11 for 6 374 594.07 UAH. and calculation of the costs for the act of performed works.
- /25/ Sales invoice# 93 for 52576.05tons of Carbonaceous rocks
- /26/ Act of performed work of weighing from 01/05/12 of 55737.85 tons of carbonaceous rocks
- /27/ Act of admission and transmission of performed work from 01/05/12 for 6 764 625.85 UAH, and calculation of the costs for the act of performed works.
- /28/ Sales invoice# 35 for 55737.85 tons of Carbonaceous rocks

### **Persons interviewed:**

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

- /1/ Gints Klavinsh SIA "Vidzeme Eko" JI Project Manager
- /2/ Tymofeev Sergiy Petrovych SIA "Vidzeme Eko" JI Consultant
- /3/ Stah Yuri Mykhailovych SIA "Vidzeme Eko" JI Consultant
- /4/ Olena Mykolaivna Petrenko PE "Tandem 2006" Ltd. Head of Laboratory
- /5/ Petro Hryhorovych Sydelnykov "FINANS-MEDIA" Ltd. Production Manager
- /6/ Lyudmyla Fedorivna Morozova "MIRTA-LUX" Ltd. manager of TCD



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APPENDIX A: VERIFICATION PROTOCOL VERIFICATION PROTOCOL

Check list for verification, according to the JOINT IMPLEMENTATION DETERMINATION AND VERIFICATION MANUAL (Version 01)

| DVM           | Check Item  | Initial finding  | Draft      | ·                   |
|---------------|---|--|------------|---------------------|
| Paragrap<br>h |   |  | Conclusion | Final<br>Conclusion |
| Project app   | provals by Parties involved   |  |            |                     |
| 90            | Has the DFPs of at least one Party involved, other than the host Party, issued a written project approval when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines, at the latest? | 02/11917 dated 17/08/2012 issued by Latvian Ministry                     | CAR01      | OK                  |
| 91            | Are all the written project approvals by Parties involved unconditional?  | Letter of approval from Republic Latvia is unconditional. Also see CAR01 | OK         | OK                  |
| Project imp   | plementation  |  |            |                     |
| 92            | Has the project been implemented in accordance with the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?  |  | CL01       | ОК                  |
| 93            | What is the status of operation of the project during the monitoring period?  | CAR02 Please correct length of the monitoring period in the section A.4  | CAR02      | OK                  |
| Complianc     | e with monitoring plan  |  |            |                     |
| 94            | Did the monitoring occur in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on   | monitoring plan included in the PDD which                                | OK         | OK                  |



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| DVM<br>Paragrap<br>h | Check Item  | Initial finding  | Draft<br>Conclusion | Final<br>Conclusion |
|----------------------|---|--|---------------------|---------------------|
|                      | the UNFCCC JI website?  |  |                     |                     |
| 95 (a)               | For calculating the emission reductions or enhancements of net removals, were key factors, e.g. those listed in 23 (b) (i)-(vii) above, influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project taken into account, as appropriate? | in the section 23(b) (i)-(vii) of Determination protocol, such as economic circumstances in Ukraine energy and mining branches, local prices on coal, electricity and diesel fuel, availability of work power and technologies, influencing the baseline emissions and | ОК                  | ОК                  |
| 95 (b)               | Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?   | The data sources such as laboratory certificates, invoices for coal containing rock mass, bills for electricity consumed, are clearly identified, reliable and transparent   | OK                  | OK                  |
| 95 (c)               | Are emission factors, including default emission factors, if used for calculating the emission reductions or enhancements of net removals, selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice?  | <u>CARO3</u> Please indicate values of diesel fuel NCV, oxidation factor and carbon content for outdoor vehicles, in   | CAR03               | ОК                  |
| 95 (d)               | Is the calculation of emission reductions or enhancements of net removals based on conservative assumptions and the most plausible scenarios in a transparent manner?   | The determined PDD indicates that HCV of coal is lowered by 10% comparing with value indicated in the  | CAR04               | ОК                  |

Applicable to JI SSC projects only\_Not applicable Applicable to bundled JI SSC projects only\_Not applicable

Revision of monitoring plan

Applicable only if monitoring plan is revised by project participant



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| DVM<br>Paragrap<br>h | Check Item  | Initial finding   | Draft<br>Conclusion | Final<br>Conclusion |
|----------------------|---|---|---------------------|---------------------|
| 99 (a)               | Did the project participants provide an appropriate justification for the proposed revision?  | Not applicable  | Not applicable      | Not applicable      |
| 99 (b)               | Does the proposed revision improve the accuracy and/or applicability of information collected compared to the original monitoring plan without changing conformity with the relevant rules and regulations for the establishment of monitoring plans? | Not applicable  | Not<br>applicable   | Not<br>applicable   |
| Data mana            | gement  |   |                     |                     |
| 101 (a)              | Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?   | The implementation of data collection procedures is in accordance with the monitoring plan included in the PDD which determination has been deemed final                  | OK                  | OK                  |
| 101 (b)              | Is the function of the monitoring equipment, including its calibration status, in order?  | CAR05 Please add information on power meter NIK 2301 ARK 1 s/n 0025676 CAR06 Please add data on hygrometer which was installed before psychometric hygrometer VIT s/n0812 | CAR05<br>CAR06      | OK<br>OK            |
| 101 (c)              | Are the evidence and records used for the monitoring maintained in a traceable manner?  | The evidences and records used for the monitoring are obtained in a traceable manner  | OK                  | OK                  |
| 101 (d)              | Is the data collection and management system for the project in accordance with the monitoring plan?  | ,   | OK                  | OK                  |

Applicable to sample-based approach only\_Not\_applicable



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## Table 2 Resolution of Corrective Action and Clarification Requests

| Draft report clarification and corrective action requests by verification team   | Ref. to<br>checklist<br>question<br>in table 1 | Summary of project participant response  | Verification team conclusion                  |
|--|--|--|---|
| CAR01 Please provide written approvals from the Host Party   | 90   | Letter of Approval #2361/23/7 from SEIA of Ukraine is obtained 28/08/2012  | The issue is closed based on LoA provided.    |
| CAR02 Please correct length of the monitoring period in the section A.4  | 93   | Length of the monitoring period is corrected:  Monitoring period starting date: 02/01/2009 at 00:00  Monitoring period closing date: 31/07/2012 at 24:00   | The issue is closed based on correction of MR |
| <u>CAR03</u> Please indicate values of diesel fuel NCV, oxidation factor and carbon content for outdoor vehicles, in accordance with Natinal GHG Report  | 95(c)  | In this project there is used the value of lower heat of combustion NCV under National Inventories for 2012. "Mobile fuel combustion. Outdoor vehicles. Clarifying done in the Table 4.  | The issue is closed based on correction of MR |
| CAR04 The determined PDD indicates that HCV of coal is lowered by 10% comparing with value indicated in the "Guide of quality, volume of coal production and enrichment products in 2008-2010" for conservativeness. Please note this in the table 4 | 95(d)  | Explanations is made in Section D1: Net Calorific Value, calculated by the formula (14), is a lower value, provided by the National Inventory is around 10% that is why, for reasons of conservatism, the project takes on a value calculated by the formula (14). | The issue is closed based on correction of MR |
| CAR05 Please add information on power meter NIK 2301 ARK 1 s/n0025676  | 101(b)   | In Section B added: To measure this parameter special energy meter NIK 2301 APK1T # 0063417 is used. This counter is installed in 17.12.2011, instead of counter NIK 2301 APK1 № 0025676   | The issue is closed based on correction of MR |

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| <u>CAR06</u> Please add data on hygrometer which was installed before psychometric hygrometer VIT s/n0812   |    | Added: Higrometer psychrometric VIT № 0579. Date of installation 08.11.07, date of last calibration 10.12.06   | The issue is closed based on information provided in the MR |
|---|----|--|---|
| CL01 Please clarify next follow in the section A.6 "the project was started 17/11/2008", determined PDD indicates start date of project than 01/12/2009 | 92 | The project was initiated on 17/11/08 and the date of the project start - 01/12/08 (from this date the installation of equipment begins according to the order of installation works implementation # 304 from 02/12/2008). See Section C. Section A.6. in the monitoring report is corrected. | The issue is closed based on clarifications in the MR       |