



Ministry of Agriculture, Forest and Rural Development

Independent Supervision for Disposal of Pesticides

FINAL REPORT

RO 2003/005-551.05.03.03.02.11- Services

November 2006

Independent Supervision for Disposal of Pesticides

Obsolete Pesticides Program

FINAL REPORT
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Acknowledgement

The Obsolete Pesticides Project in Romania is one of the largest clean-up operations of its kind in Europe, and by far the largest in Southeast Europe. It comprised 2.516 tons of obsolete pesticides (1.735+781 tons) removed from 227 sites (101+126) in Romania during less than two years.

Because of unexpected new amounts discovered during the course of the project, a new phase II was implemented, and 781,2334 tons of obsolete pesticides were re-packaged and removed.

Sound project management and supervision must be obtained on the basis of a good contracting framework, and in Romania the Contractor (SAVA GmbH) is working according to a FIDIC contract and under full-time supervision by an independent engineer (Rambøll Consortium).

However more importantly is the partnership and cooperation between the Contractor, the Supervisor, and the Implementing and Contracting Authorities. Rambøll has been fortunate to be part of such a partnership where all partners – also when administrative issues and bureaucracy tried to take the steering wheel – were focused on the works execution in the field. We are therefore happy to have contributed to a successful implemented project, where we have ensured sound management of the obsolete pesticide clean-up according to the time schedule the quality of the works and the financial framework.

We would therefore like to extend our thanks all our partners in the Romanian Obsolete Pesticides project for all the efforts that made the clean-up operation come true.

In particular, we most sincerely thank the head of the Phare PIU, Dr. Marisanda Piriianu in the Ministry of Agriculture, Forest and Rural Development for her loyalty, her constant support of our efforts, for encouragement during difficult times, and for the friendship offered. Furthermore we thank the representatives from the MAPDR Phyto-Sanitary unit all over Romania. Without their assistance and support, the project results described in this report would never have materialised.

Denmark and Romania, November 2006

Neel Strøbæk
Project Director

John Vijgen
Team Leader

Daniela Cancescu
Contract Manager

1. Introduction

This is the final report of the phase II of the obsolete pesticides project in Romania (ref Phare 2003/005-551.05.03.03.11 – the “services”).

The report describes the finding and lessons learned from an obsolete pesticides clean-up action. Hence, Section 2 is dedicated to the independent supervision of the Works Contract, and the activities related to the field works.

Finally, a number of Annexes displays important supporting materials. Further documentation may be obtained at the Ministry of Agriculture, Forest and Rural Development of Romania (Implementing Agency).

2. Independent Supervision

2.1 General Introduction

The Phase no.2 included independent supervision of the clean-up operation of 747 tons of obsolete pesticides at 126 storages all over Romania. The works contract was based on tons not number of sites.

The inventory of the storage sites included the inventory of local Ph.U for the new sites and the re-assessment data from last year phase 1 for the old sites.

In order to ensure that the final disposal and destruction of the obsolete pesticides took place in a way that is compliant with the national legislation in the country in question, Rambøll carried out an audit at SAVAs incineration facility in Brunsbüttel in Germany in 2005 during phase I.

Due to the fact that there was no change of contractor in phase II, during phase II no Audit was carried out at SAVA's incineration facility in Germany in order to ensure that the final disposal of the obsolete pesticides takes place in an appropriate way,

Hence, Rambøll has in the approach and methodology for the independent supervision envisaged the following steps:

Step	Description
1	Full-time independent supervision of the Contractor's repackaging and clean-up activities at the individual storage
2	Independent supervision of the Contractor's loading and transport
3	Control of final disposal site and documentation for destruction of obsolete pesticides.

Table 2-1 Overview of steps in Rambøll's supervision activities.

The implementation of the individual steps in the clean-up process is described in the table below and in the following text.

Task	Responsible	Purpose
Storage Taking Over	Contractor	Agreed document describing the Contractor's take over of the site for clean-up – to be approved by the Engineer
Site Planning	Contractor	The Contractor's plan for the execution of the works on the site – to be approved by the Engineer
Log Book	Contractor	Daily diary to document the activities on the site – to be approved daily by the Engineer
Weekly Status Meeting at site	Engineer	Minutes from Meeting summarising the activities in the past week and describing the planned activities
Monthly Status Meeting in Bucharest	Engineer	Minutes from Meeting summarising the activities in the past month and describing the planned activities
Site Handing Over	Contractor	Agreed document describing the Contractor's actual clean up of the site – to be approved by the Engineer
Post assessment	Engineer	Assessment and documenta-

Task	Responsible	Purpose
		tion of any residuals left on the site (soil, debris etc.)

Table 2-2 Overview of clean-up process.

2.2 Independent Supervision

2.2.1 General Description

The repackaging activities took place from February to October 2006 and were carried out within the time schedule about two weeks ahead.

By the beginning of July 2006, there were complaints about smell from people in the surroundings of the central store in Suceava. The reason for this was the cutting and crushing activities. The Environmental Agency from Suceava planned a meeting with SAVA to discuss this problem. The contractor was forced to apply for a new site in Suceava for cutting and crushing drums. In the meantime it was not allowed to continue these activities at the central store. SAVA stopped the activities until there was found a new location and an authorisation of the Environmental Agency was given.



Figure 2-2: Examples from Obsolete Pesticides Storages (Step 2: Clean-up)

The Contract Management has had a busy time in order to adjust the Works contract to increasing amount. An overview of changes to the Works Contract is presented in *Table 2-3 (below)*.

The field work was finalised on the 02th October 2006.

Works Contract Amendments		
Project Title: "Disposal of pesticides (Re-packing, collection and elimination of pesticides residues on the Romanian territory)" - Works		
Contract No. RO 2003/005-551.03.03.02.10		
Item	Date	Purpose of Document
Variation Order No. 1	Submitted for Approval 2006-08-22 Approved on 2006-09-02	Release of contingencies – 69.978,70 EUR
Variation Order No. 2	Submitted for Approval 2006-09-13 Approved on 2006-09-18	Reallocation of savings from Suceava and Oradea regions to Other Regions

Table 2-3: Overview of changes to the Works Contract.

Service Contract Amendments		
Project Title: "Independent supervision for disposal of pesticides - Romania - Services		
Contract No. RO 2003/005-551.03.03.02.11		
Item	Date	Purpose of Document
Addendum No. 1	Submitted for Approval 2006-08-22 Approved on 2006-10-09	-Extension of duration of the supervision contract with 1 month in order to cover the entire duration of the works contract -Reallocation of man days in order to increase the number of man days for Contract Manager

Table 2-4: Overview of changes to the Service Contract

2.2.2 Site Hand-over and Take-over

For the hand-over of the individual storage site for clean up from the owner (the local Phyto-Sanitary unit) to the Contractor, a special hand-over document was developed. In this document, the contractor, the supervision and the owner jointly signed the (re-assessed) list of obsolete pesticides found at the site.

After the Contractor's clean-up, the owner takes over the sites as it is returned in cleaned-up condition by the Contractor. Again the contractor, the supervisor and the

owner jointly sign off the cleaned-up amounts, and this document constitutes the completion documentation for the individual site. All hand-over and take-over documentation are handed over to the Implementing Authority.

2.2.3 Amount of Pesticides Waste repacked

A total of approx. 781 ton of waste was repacked; this corresponds to 100 % of the extended contractual amount.

From the 747 tons from the original contract 500 tons were collected in Suceava and Oradea (old sites) and 232 tons for the (new sites), 36 tons from the first release of the contingencies (Variation order 01) and 13 ton from the second release of the contingencies (Variation order 02) what gives a total of 781 tons.

Due to the fact that the Contractor reached the total amount before cleaning all sites specified in the contract, 9 stores were not cleaned: One store in Botosani County, one in Tulcea County, one in Hunedoara County and 6 stores in Constanta County. These stores will instead be transferred to a possible phase III of the project.

2.2.4 Amounts of Pesticides Waste Transported to Germany

The first transport of pesticides waste to Germany was on 4th of April 2006. The last truck of pesticides waste to Germany left the Romanian territory on the 2th of October 2006.

The total of 781 ton (all waste collected) has been exported to Germany.

2.2.5 Amounts of Pesticides Waste Incinerated

All waste collected, repacked and exported to Germany has been incinerated. The total quantity of waste incinerated, including packaging material, is 850,704 ton.

2.2.6 Number of clean sites

A total of 117 sites have been cleaned-up completely and hands over forms have officially been signed.



Figure 2-3 Impressions from repackaging and transport

2.3 **SAVA's Incineration Facility in Germany**

2.3.1 **Audit of compliance**

There was an Audit carried out at two visits – one before obsolete pesticides arrived at the plants and one follow-up visit when the obsolete pesticides from Romania were destructed in phase I. The results are reported in Final report Phase I.

During phase II no Audit was carried out at SAVA's incineration facility in Germany in order to ensure that the final disposal of the obsolete pesticides took place in an appropriate way. This was due to the fact that there was no change of Contractor in phase II.

2.3.2 **The SAVA Incinerator plant.**

SAVA is situated in Brunsbüttel covering the region of Schleswig-Holstein. The plant offers furthermore services outside the region. Hence, today SAVA treats waste from many countries among others Holland, Italy, Sweden, the Baltic States, Albania etc. At the moment 70% of the waste treated at SAVA is generated outside the Schleswig-Holstein region.

The plant is established in 1998 and owned jointly by RWE (66%) and E.ON (34%). Recently RWE decided to sell all waste business to Redman. The name of RWE is thereby recently changed to Remontes.

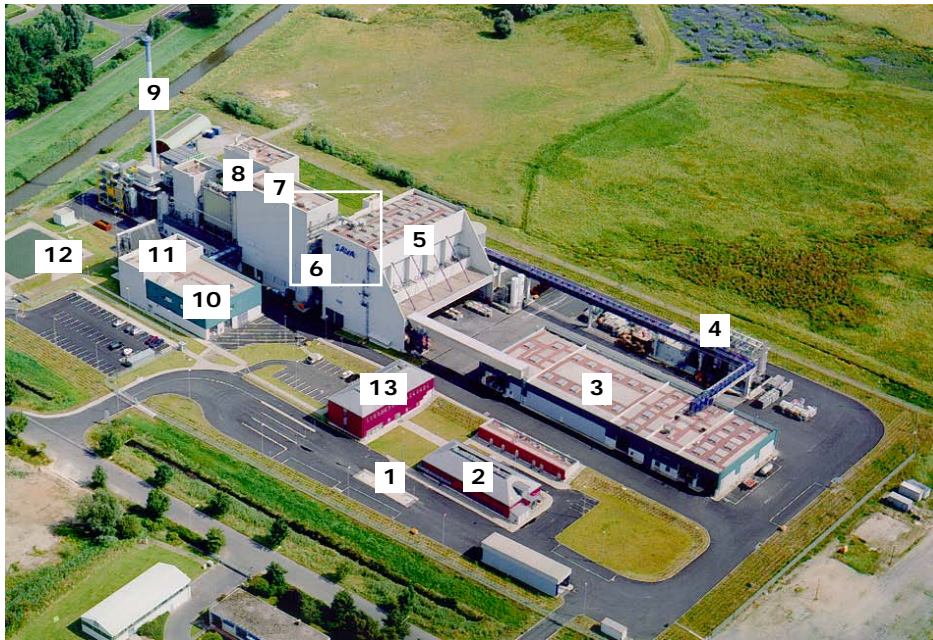
The overall aims of SAVA are in accordance with the Land of Schleswig-Holstein:

- to destroy organic substances that present environmental hazards and, hence, to avoid the necessity for the future remediation of contaminated sites
- to substitute fuels by converting the energy liberated into steam and electric power
- to utilize recyclable products such as slag and gypsum
- to reduce the volume of the waste

At the moment SAVA employs 67 persons divided in four departments:

- maintenance (7 persons)
- operation and laboratory (32 and 6 persons)
- financial (10 persons)
- sales (12 persons)

SAVA is member of the European association for operators of hazardous waste treatment facilities EURITS.



1. Access road, waste delivery and weighing station
2. Laboratory, operations scheduling, marketing
3. Drum storage facility
4. Tank farm
5. Solid materials bunker
6. Revolving cylindrical furnace
7. Boiler house
8. Flue-gas treatment
9. Stock
10. Energy and fire-brigade building, standby power-generating set
11. Turbine system
12. Rainfall retention basin
13. Administration and welfare building

2.4 Dissemination Activities

2.4.1 Website

Immediately after project commencement, a website was established displaying information of the project with regular updates (see *Figure 2-4, overleaf*).

There has been some media coverage of the project – in particular in local written press. The project has, apart from the web site, not performed any general awareness raising activities.

2.4.2 Training Activities

The Local Phytosanitary Units had the possibility to be trained by SAVA.

The training covered the following subjects: health and environmental hazards of pesticides, personal protection and repackaging of obsolete pesticides (repackaging, labeling, cleaning floors of the pesticide stores).

2.5 **Lessons Learned from the Clean-up Activities**

Some valuable experiences have been gained during the project execution. These lessons-learned is briefly described in the following:

2.5.1 **Contracting Framework**

It shall be understood that a project comprising removal of waste from 126 different sites throughout the Country constitutes a completely different management process than traditional construction and civil engineering project. The contracting framework may therefore seem rather rigid for a smooth project implementation in the field, and great care must be taken to establish a contracting framework that facilitates and encompasses the actual situation at the individual site in the field, even though this has changed since the tendering of the contract.

In this context the contract management part of the independent supervision (the FIDIC Engineer) shall not be underestimated.

2.5.2 **Assessment of Contents of Storages**

The inventory used as basis for the works contract was not up-dated. Information available regarding storage and removal on the individual site in the time span between the inventory and the commencement of the works was not included in the works contract. In the future this problem may be solved by enforcing strict and co-ordinated record-keeping of the type and amounts in the individual site, and by preventing public access to the storage sites.



It is recommended always to carry out an assessment of the storage sites before a works operation commences. This will first of all give the Supervision a firm grip on the works execution, and secondly it will provide the Contractor with optimal information for his mobilisation and planning at the individual site.

2.5.3 Independent supervision (the Engineer)

It is necessary to deploy a supervision team that has sufficient knowledge of obsolete pesticides, including the occupational health and safety issues in management of hazardous chemicals.

Continuity in staff allocation is an advantage in order to monitor and control the Contractor's works execution as basis for release of payment. When the capacity of local staff is not sufficient then international full time personnel must be deployed in combination with the local supervisor.

2.5.4 Training and Awareness Raising

As the obsolete pesticides issue is very specific, and generally not very well known, the awareness of the related health and environmental problems are relatively low.

Therefore shall the following training and awareness raising activities always be included – as in the current project:

- training of supervision staff in obsolete pesticides issues and personal protection
- awareness training of local Phyto-Sanitary Units, local Environmental Protection Units (waste departments) and Environmental Guards

2.5.5 Issues after site clean-up (soil, buildings and debris)

The works contract exclusively relates to obsolete pesticides waste. Buildings and debris which most often also may be contaminated is not included in the works operations. In spite of the fact that all buildings has been cleaned with absorbents and vacuum cleaning it must be stated that this clean-up is superficial only, and that buildings still are contaminated and impose a danger to humans and the environment.

The clean-up sites can only be used for pesticides storage. It is recommended to avoid public access to the storage sites, and the supervision has provided a number of signs to inform of the danger at the sites.

This situation at the cleaned-up sites should encourage a special action programme to be implemented, as e.g. demolishing of contaminated storage buildings, investigations of surrounding soils in order to find and remediate remaining contaminations. Hereafter the sites may be released for other use.

3. Overview of Man-days spent

<i>Human resources input</i>		
Position	Name	No. of man days
Team Leader	John Vijgen	18
Contract Manager	Claus Lillemark	80,8
Contract Manager	Daniela Cancescu	51
Site Engineer	Berto Collet	97
Site Supervisor	Bogdan Voiculescu	116
Data Manger	Claudiu Banut	71
Total		433,8

4. Overview of Incidental Expenditure

Total amount of Incidental Expenditures according to contract:

69.978,70 Euro

Invoiced Incidental Expenditures (reallocated for collection of extra quantities):

69.978,70 Euro

5. Equipment

No equipment was purchased under Phase II (current contract), as the equipment purchased under Phase I was used for the supervision activities in Phase II.

ANNEXES

- I List of Sites Cleaned
- II Minutes of Meetings Steering Committee Meetings
- III List of Approved Progress Reports
- IV List of Supervision Documentation handed over to PIU
- V Taking-over Certificate
- VI List of Staff
- VII Presentation at the closing workshop
- VIII CD-Rom with photos

ANNEX I List of Sites Cleaned

County	Contract Site Name	Site no.	Actual amount repacked	Cumulative amount compared to contract
			Kg	Kg
Botosani	Dorohoi	11	16.158	-195
BOTOSANI	Saveni	12	19.627	-128
Caras Severin	Caransebes	31	26.861	-4.884
Caras Severin	Oravita	32	12.454	2.929
Caras Severin	Berzovia	33	13.436	-294
Covasna	Tg. Secuiesc	48	43.801	-21.029
GALATI	Tecuci Contec	58	7.543	-3.417
GALATI	Grivita	59	8.908	4.918
GALATI	Ivesti	60	1.409	165
HARGHITA	M. Ciuc	64	29.989	-271
HARGHITA	Cobatesti	65	6.864	2.057
HARGHITA	Sancraieni	66	2.142	-2.218
IASI	Pascani	72	72.482	-4.325
NEAMT	Piatra Neamt Phitosanitary unit	82	5.719	-81
NEAMT	Piatra Neamt SC Comcereal SA	83	1.851	36
NEAMT	Com. Bozieni	84	7.609	-2
NEAMT	Trifesti	85	2.806	-1
SUCEAVA	Suceava	109	77.487	10.467
VASLUI	Husi Plant Protection Center	121	66.913	-6.027
VASLUI	Husi	122	0	0
VASLUI	Ferma nr.6 Galbena	123	694	-106
VASLUI	Falciu	125	1.912	-1.308
VASLUI	Solesti	126	7.300	1.120
VRANCEA	Adjud	130	46.395	11.195
VRANCEA	Focsani SPPP Vrancea	131	15.549	-2.331
VRANCEA	Focsani SCPP Vrancea	132	4.005	-945
TOTAL	Suceava + Oradea sites		499,914	499.914

BACAU	SPPP -(concrete cell)	201	32.460	460
BOTOSANI	PLANT PROTECTION COUNTY DIREC-TION	202	31.265	11.265
BOTOSANI	Dorohoi	203	0	0
BACAU	SPPP (concrete cell)	204	18.970	4.970
OLT	Bals (CHIMINVEST)	205	18.769	6.769
OLT	Barasti (AVANTUL)	206	11.765	1.765
BACAU	PHYTOSANITARY UNIT-(concrete cell)	207	10.730	2.730
CONSTANTA	DJPP	208	0	0
CONSTANTA	PRIMARIE	209	0	0
VASLUI	Solesti	210	0	0
MURES	UNITATEA FITOSANITARA, Punct de lucru REGHIN	211	14.995	9.345
GIURGIU	Institutul de Cercetari pentru Irigatii si Dre-naje Baneasa	212	8.379	3.679
SATU MARE	PRIMARIA	213	7.145	2.564
SATU MARE	PRIMARIA - DEPOZIT FOST AGROMEC	214	4.483	636
TELEORMAN	PRIMARIA RASMIRESTI	215	2.716	-841
HUNEDOARA	UNITATEA FITOSANITARA	216	3.337	221
ALBA	STATIUNEA DE CERCETARE DEZVOL-TARE PENTRU VINIFICATIE BLAJ	217	3.034	51
COVASNA	PRIMARIA	218	3.058	748
CONSTANTA	SCDA LIVADA	219	0	0
CONSTANTA	DEPOZIT DJPP	220	4.537	2.300
HARGHITA	Sancraieni	221	0	0
HARGHITA	PRIMARIA	222	2.145	219
ALBA	PHYTOSANITARY UNIT	223	2.845	1.031
DOLJ	PRIMARIA	224	8.361	6.561
NEAMT	Primaria	225	5.335	3.635
SATU MARE	OCOLUL SILVIC TASNAD	226	2.254	604
HARGHITA	AGROPRODCOM	227	2.619	1.024
SATU MARE	FOST CAP - Primăria Halmeu	228	2.020	454
BRASOV	DEPOZIT UPS FAGARAS	229	1.427	-35
SATU MARE	PRIMARIA TIREAM	231	8.552	7.157
OLT	PRIMARIA	232	2.123	773
OLT	Crampoia (PRIMARIA)	233	6.561	5.261
HARGHITA	PRIMARIA	234	2.272	987

TELEORMAN	PRIMARIA RADOIESTI	235	1.286	24
OLT	PRIMARIA	236	1.633	373
SATU MARE	PRIMARIA TURȚ	237	1.195	-55
TELEORMAN	Primaria CRANGU - SC CAPATANA & Co SNC CRANGU	238	1.930	718
MEHEDINTI	Malovat (SDP - DEPOZIT BARDA)	239	1.521	320
HARGHITA	PRIMARIA ATID	240	768	-414
OLT	Sprancenata (PRIMARIA)	241	1.502	332
MEHEDINTI	Strehaia (SDP - DEPOZIT STREHAIA)	242	3.308	2.158
OLT	Optasi (PRIMARIA)	243	817	-333
OLT	PRIMARIA	244	1.297	172
BUZAU	PHYTOSANITARY UNIT	245	3.921	2.801
HARGHITA	PRIMARIA	246	3.396	2.291
CLUJ	PHYTOSANITARY UNIT	247	2.798	1.775
SATU MARE	PRIMARIA	248	1.552	536
HARGHITA	PRIMARIA	249	1.577	649
BRASOV	PRIMARIA RACOS	250	75	-791
GALATI	PRIMARIA DRAGANESTI	251	915	56
BISTRITA NASAUD	STATIUNEA DE CERCETARE SI DEZ- VOLTARE POMICOLA BISTRITA	252	4.801	3.951
OLT	PRIMARIA	253	970	120
HARGHITA	DIRECTIA SILVICA	254	1.137	304
HARGHITA	PRIMARIA	255	2.213	1.383
CALARASI	SCDA MARCULESTI	256	2.858	2.039
OLT	PRIMARIA	257	1.752	937
HARGHITA	PRIMARIA FELICENI-FORTENI	258	1.376	576
MEHEDINTI	Simian (DIR. SILVICA DR. TR. SEVERIN)	259	1.073	287
CONSTANTA	ICPCOC Palas	260	0	0
OLT	N. Titulescu (GHIMPETENI)	261	1.265	535
VALCEA	PRIMARIA	262	2.335	1.665
DOLJ	PRIMARIA	263	638	-12
OLT	Tatulesti (PRIMARIA)	264	2.023	1.378
SATU MARE	PRIMARIA VAMA	265	481	-119
BISTRITA NASAUD	REGIONALA C.F.R. – CLUJ, Divizia linii	266	0	-580
BISTRITA NASAUD	PLANT PROTECTION COUNTY DIREC- TION	267	2.499	1.919
BRASOV	PRIMARIA VOILA	268	3.139	2.620
BUZAU	PRIMARIA	269	594	84
COVASNA	S.C.D.C.Tirgu Secuiesc	270	625	115
CONSTANTA	SCDP	271	0	0
TOTAL	Other Sites		281.427	

ANNEX II Minutes of Meetings
Steering Committee Meetings

III List of Approved Progress Reports

LIST OF APPROVED REPORTS

Progress Report no.1 – March 2006

Progress Report no.2 –April 2006

Progress Report no.3 – May 2006

Progress Report no.4 – June 2006

Progress Report no.5 – July 2006

Progress Report no.6 – August 2006

Progress Report no.7 – September 2006

Progress Report no.8 – October 2006

IV List of Supervision Documentation handed over to PIU

Supervision Documents handed over to the PIU

Minutes of Meeting from all 26 Site Meetings

Site Taking Over Documents from all cleaned sites

Site Handing Over Documents from all cleaned sites

V Taking-over Certificate

VI List of Staff

SERVICE CONTRACT - LIST OF STAFF

Consortium Partner	Staff Name	Nationality	Function
Rambøll A/S	Neel Strøbæk	DK	Project Director
Rambøll A/S	John Vijgen	NL	Team Leader
Tauw	Berto Collet	NL	International Supervision Expert
Rambøll	Bogdan Voiculescu	RO	Local Supervision Expert
Rambøll	Claus Lillemark	DK	International Contract manager
Rambøll	Daniela Cancescu	RO	Local Contract Manager
Rambøll	Claudiu Banut	RO	Data Management Expert

VII Presentation at closing workshop

CLOSING WORKSHOP

Date: **27th October 2006**

Location: **Ministry of Agriculture, Forests and Rural Development**

17, Blvd Carol, Sector 1, Bucharest Room 10, 3rd floor

Agenda

1. Opening speech – Mr. Dumitru Cosmescu, General Director, MAFRD;
2. Intervention of the EC Delegation – Mr John BARKER, Task Manager, EC Delegation;
3. Presentation of the project implementation – Berto COLLET, EU Expert, Ramboll, Denmark – Consultant;
4. Evaluation, impact and follow-up – Marisanda PIRIIANU, Head of PIU, MAFRD;
5. Intervention of the SAVA Company, Germany – Works Contractor;
6. Intervention of the Ramboll Company, Denmark – Consultant;

VIII CD-Rom with photos