1. **Basic Information**

1.1. Desiree Number

1.2. Title: Comprehensive waste management information system for planning regional waste management policy

1.3. Sector:


2. **Objectives**

2.1. Wider Objectives

The wider objective of the project is timely and effective application of the Acquis in the field of waste management monitoring and implementation control.

2.2. Immediate Objectives

- An established EU conform waste management information flow, co-ordinated through a common organisational platform involving all concerned Ministries and institutions.
- Improved capacity of the disposal and recovery facilities network.
- Precise guidelines for the preparation of the regional waste management policies/plans to implement the environmental Acquis.

2.3. Accession Partnership and NPAA Priority

The Accession Partnership and National Programme for the Adoption of the Acquis of July 1999 define the need for fully operational control structures and capacities for environment monitoring and implementation, especially in relation to: 75/442 /EEC - Guidelines for regional waste management planning.

Hungary: 1999 Accession Partnership (AP):

*Short term (2000)*

Environment

"Accelerate the transposition and enforcement of framework legislation for waste management…" (AP, page 4.)

*Medium term*

"Complete transposition and enforce legislation in the areas of nature protection, water quality, industrial pollution control and risk management, noise, chemicals and genetically modified organisms, waste management, radiation protection including specific investment programmes."

(AP, page 6.)

National Program for the Adoption of the Acquis (NPAA):

6.1 Environment
"Information in connection with waste, the freedom of access to data for both the economic sphere and the public is a general principle in community regulations. In the interest of this – apart from the reporting obligation prescribed in the directives – it is necessary to create information system(s) able to follow the movements of waste, which are suitable for showing the effects of measures aimed at waste prevention (the quality and marketing data of products). The national municipal waste information network is to be established, supplementing the data collection of the Central Statistics Office, now operating at an experimental level. The hazardous waste information system meeting community requirements and the non-hazardous industrial waste observation system operated by the Ministry of Economy, must be made comprehensive to operate appropriately." (NPAA, page 48.)

3. Description:

3.1. Background and Justification

The waste management law, which defines the legal framework of waste management in Hungary, has been submitted to the Government at the end of 1999, but is not yet adopted by Parliament. It is expected to come into force by the beginning of 2001. During its preparation, a detailed impact assessment was prepared. It confirmed that the available waste management information systems are operating with a waste classification system different from the EU lists. Methods of data acquisition and information systems are not suitable to provide EU compatible data supply. It was also found that the divided responsibility concerning different types of wastes obstructs the adequate communication among the competent Hungarian institutions, which hinders the future planning.

In 1999 a draft national waste management plan was prepared and is to be approved by Parliament. The effective implementation of the new waste management law will require:

- the existence of detailed waste management plans on a regional basis
- and the establishment of a comprehensive information system for waste management.

The Hungarian Government in its Decision 2339/1996. (XII.6.) has decided to set up a comprehensive information system parallel with the ongoing law making processes. This activity along with capacity building for waste management planning will be strongly supported especially with the help of EU know-how.

The programme will be carried out in the context of a twinning arrangement with a competent Member State institution. In this case there is a good possibility that Hungary will be able to comply with the requirements set in the Environmental Acquis.

3.2. Linked Activities

The objective of the project, named “Investigations on municipal landfills in Hungary”, is the determination of the location and the properties of landfills in the area of Hungary in accordance with the requirements of Council Directive 1999/31/EC on the landfill of waste. The following outputs of the Landfill project will be incorporated into the Comprehensive information system:

- Exact location and size of all landfills, with co-ordinates fixed [GIS system] (including illegal ones)
- Volume and kind of deposited wastes (for instance, municipal, industrial, hazardous, organic matter content of the waste)
- Possible contamination of the environment and assessment of the risk of future contamination
3.3. Results

- Twinning arrangement successfully carried out: an EU compatible study/masterplan on the institutional structure of collecting, processing and distributing information on waste streams, also reflecting EU expertise in the preparation of the guidelines.
- Adequate waste management information processing system installed at the involved institutions.
- Guidelines for regional waste management plans.
- Operator and end-user training programmes completed including the staff at the environmental inspectorates. 87 persons trained for regional waste management planning. 143 persons trained to use the information system.
- Adequate public access secured.

3.4. Activities

3.4.1. HU/2000/IB/EN/02 Twinning - Waste Management Planning

The Pre-Accession Adviser will spend 12 months (from January 2001 to December 2001) in the Ministry for Environment.

The main task of the PAA, in order to achieve the successful implementation of this project is to help forming the operational structure of the regional waste management planning. The regional planning should not exclusively focus on the municipal guidelines, but rather should be more comprehensive and be in line with the activities of the regional environmental inspectorates.

Furthermore the PAA will:

- participate in the preparation of a Master Plan for the establishment of the best institutional structure for the management of the waste streams,
- pass on know-how on data collection to backup the planning activities used in EU practice
- participate in the development of guidelines for the regional waste management planning to ensure that with the help of these guidelines there will be a better chance to monitor and plan the fate of waste streams,
- prepare and implement a training programme for the staff of the responsible institutions on waste management planning, ensuring that as a result of these new guidelines there will be a better chance to monitor the fate of waste streams.

The curriculum of the training programme is to be finalised by a short term twinning expert.

The PAA will also prepare proposals for the best available institutional arrangements for the operational comprehensive waste management information system.

The Master Plan is necessary for the establishment of the best institutional structure for the management of the waste streams in compliance with the EU practice. The Master Plan will cover the following topics:

1. Institutional proposals (Defining the best available institutional structure.)
2. A financial and economic analysis of waste management planning (Cost benefit analysis schemes).
3. Technical aspects - How, when and by which institution the waste stream data will be gathered and processed?

The preparation of the Masterplan and the rest of the project are very closely interlinked. The PAA will play a key role in the preparation of the Masterplan. The Masterplan will be finalized by the experts of the beneficiary institutions.

Presently data collection regarding industrial non-hazardous wastes is the responsibility of the Ministry for Economy. Data on municipal solid waste are collected by the Central Statistical Office. In order to plan the network of disposers and recovery facilities for waste generated by different industrial enterprises and the public sector, it is vital to co-ordinate the data acquisition and processing by the Ministry for Environment.

The platform responsible for the organisation of waste streams will be guided by a Steering Committee chaired by the Ministry for Environment. This Committee is to make proposals for the proper geographical distribution of the disposal and recovery facilities on a regional level based on the data collected.

**The guaranteed results of the twinning project:**
- Masterplan prepared
- Guidelines for the regional waste management planning developed
- Well-trained staff of responsible institutions (aware of the know-how on data collection)
- Operational structure of the regional waste management planning formed

**3.4.2. Information system**

After the completion of the 1. Chapter of the Master Plan, (about 2 months), the creation of the technical basis of the comprehensive waste management information system becomes feasible. The information system will be interlinked and operated online, and will cover the following waste streams:
- Waste generated by different industrial sectors, agriculture and different businesses (both hazardous and non-hazardous waste).
- Municipal wastes and similar commercial and institutional wastes generated, collected.
- Wastes from human and animal health care generated.
- Network of disposers, operators and main installations.
- Wastes (mentioned in bullet point 1-2) recovered.
- Wastes (mentioned in bullet point 1-3) disposed of (incinerated, landfilled…etc.).
- Separate data acquisition, special arrangements for particular wastes (e.g.: batteries, packaging, PCB/PCT, sewage sludge, etc.).

The system will have a central database operating with the EWC-codes. The core will be interlinked and based on the relevant EU legislation. With the help of the system the development of the waste management plans for the following areas will become possible:
- shipment of waste (Amounts of waste exported, imported.),
- hazardous waste (Generated amount, not aggregated data.),
• particular wastes (packaging and packaging waste; waste oils; polychlorinated biphenyls and triphenyls; batteries and accumulators, sewage sludge, etc.),

• recovery and disposal facilities.

In order to provide the stable operation of the developed software, the available hardware background needs to be upgraded. Afterwards, having finished the pilot test of the system, a final report on the operation of the software has to be made.

Nevertheless, for the successful completion of this project it is vital that the staff of the environmental inspectorates, the officials of the Chief Inspectorate and other related governmental staff (143 persons) will be trained in order to ensure the smooth operation of the developed software and the IT supply.

Once the system is in operation the loading of the available data will provide a base for the planning of the EU compatible regional waste management plans. The uploaded waste information system will be able to provide sufficient data, even during the first year of operation to prepare the necessary planning.

According to the relevant EU regulations adequate public and business access to the information is to be secured.

4. Institutional Framework:

The project will be co-ordinated by the Agency for Environmental Protection of the Ministry for Environment. The PAA will be located in the Department of Waste Management and Environmental Technology of the Ministry for Environment. The owner of the assets procured will be the involved institutions, the Steering Committee would have the right of supervision.

• 12 environmental inspectorates

<table>
<thead>
<tr>
<th>Name of the Environmental Inspectorates</th>
<th>Address of the Environmental Inspectorates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alsó-Duna-Völgyi Environmental Inspectorate</td>
<td>6500 Baja, Bajcsy Zs. u. 10.</td>
</tr>
<tr>
<td>Alsó-Tisza-Vidéki Environmental Inspectorate</td>
<td>6721 Szeged, Felso-Tisza-part 17.</td>
</tr>
<tr>
<td>Dél-Dunántúli Environmental Inspectorate</td>
<td>7621 Pécs, Papnövelde u. 13.</td>
</tr>
<tr>
<td>Észak-Dunántúli Environmental Inspectorate</td>
<td>9021 Gyor, Árpád út 28-32.</td>
</tr>
<tr>
<td>Észak-Magyarországi Environmental Inspectorate</td>
<td>3530 Miskolc, Mindszent tér 4.</td>
</tr>
<tr>
<td>Felso-Tisza-Vidéki Environmental Inspectorate</td>
<td>4400 Nyíregyháza, Széchenyi u. 19.</td>
</tr>
<tr>
<td>Körös-Vidéki Environmental Inspectorate</td>
<td>5700 Gyula, Megyeház út 5-7.</td>
</tr>
<tr>
<td>Közép-Duna-Völgyi Environmental Inspectorate</td>
<td>1088 Budapest, Rákóczi út 41.</td>
</tr>
<tr>
<td>Közép-Dunántúli Environmental Inspectorate</td>
<td>8000 Székesfehérvár, Balatoni út 6.</td>
</tr>
<tr>
<td>Közép-Tisza-Vidéki Environmental Inspectorate</td>
<td>5000 Szolnok, Ságvári krt. 4.</td>
</tr>
<tr>
<td>Nyugat-Dunántúli Environmental Inspectorate</td>
<td>9700 Szombathely, Vörösmarty u. 2.</td>
</tr>
<tr>
<td>Tiszántúli Environmental Inspectorate</td>
<td>4025 Debrecen, Piac u. 9/b.</td>
</tr>
</tbody>
</table>

• National Inspectorate for Environmental Protection and Nature Conservation
• MoE: Department for Waste Management and Environmental Technology
• Institute for Environmental Management (KGI): Agency of Informatics
• Institute for Environmental Protection (KVI): Agency of Experts
• Ministry for Agriculture and Regional Development
• Ministry of Interior
• Ministry for Economic Affairs
• Central Statistical Office
• Ministry for Transport and Water Works
• Regional Environmental Centre (NGO)
• Association of Environmental Enterprises (NGO)
• Custom Stations and the Budapest headquarter
5. Detailed Budget (MEURO)

<table>
<thead>
<tr>
<th>Phare Support</th>
<th>Investment</th>
<th>Institution Building</th>
<th>Total Phare (I+IB)</th>
<th>National Co-financing</th>
<th>IFI</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>Waste management planning (Contract 1)</td>
<td>0,607</td>
<td>0,607</td>
<td>0,607</td>
<td>0,607</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Twinning (masterplan); Short term experts (curriculum for the training on planning and for user training). Training on planning (10 days for 87 persons)</td>
<td>0,607</td>
<td>0,607</td>
<td>0,607</td>
<td>0,607</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information System (Contract 2)</td>
<td>1,393</td>
<td>1,393</td>
<td>0,464</td>
<td>1,857</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hardware and software, software development, pilot test, user training (10 days for 143 persons). Adequate public and business access to the information secured.</td>
<td>1,393</td>
<td>1,393</td>
<td>0,464</td>
<td>1,857</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>1,393</td>
<td>0,607</td>
<td>2</td>
<td>0,464</td>
<td>2,464</td>
<td></td>
</tr>
</tbody>
</table>

6. Implementation arrangements:

6.1. Implementing Agency:

The contracting authority and financial management will be the responsibility of the CFCU, headed by Ms Judit Rozsa.

Address: József nádor tér 2-4.
1051 Budapest

Telephone: (36-1) 327-2520
Fax: (36-1) 327-5972
e-mail: jrozsa.cfcu@sdi.hu

6.2. Twinning:

The beneficiary institution is the Hungarian Ministry for Environment, the contact person is: Biacs Tamasné dr., Head of Department for Waste Management and Environmental Technology.

6.3. Non-standard Aspects:

DIS manual will be strictly followed. Twinning is expected, see budget Contract No. 1. (0,607 MEURO).

6.4. Contracts:

One supply tender is expected, of an amount of 1,857 MEUR comprising 1,393 MEUR of Phare contribution. One twinning arrangement is foreseen of an amount of 0.607 MEUR.

7. Implementation Schedule
8. Equal Opportunity
The equal participation of women and men in the training component will be assured. For the remaining parts of the project the principle of equal opportunity is not relevant.

9. Environment:
The programme has no negative environmental impact. It will provide the basis for the implementation of the EU environmental legislation.

10. Rates of Return:
Not applicable

11. Investment Criteria:

11.1 Catalytic Effect
Phare contribution will help in introducing a comprehensive information system set up a reliable base for waste management planning in Hungary. Without Phare support the action would take place much later.

11.2 Co-finance
National co-finance contributions will total 19 percent of the total cost of the programme.

11.3 Additionality
No other financiers will be displaced by the Phare intervention.

11.4 Project Readiness and Size
All necessary preparatory studies have been completed, and the TOR documents will be ready by the time of the signature of the Financing Memorandum.

11.5 Sustainability:
Relevant government policies ensure that the results of the programme will be applied to the improvement of waste management planning in Hungary.

11.6 Compliance with state aids provisions:
Supplies and services will be procured in line with the regulations of the Phare DIS.

12. Conditionality and Sequencing
Phare support will be conditional to the co-financing from Hungarian sources.
<table>
<thead>
<tr>
<th>Wider Objectives</th>
<th>Indicators of Achievement</th>
<th>How, When and By Whom Indicators Will Be Measured</th>
<th>Assumption and Risks</th>
</tr>
</thead>
<tbody>
<tr>
<td>The wider objective of the project is timely and effective application of the Acquis in the field of waste management monitoring and implementation control.</td>
<td>Based on the Draft National Waste Management Plan, which was elaborated using estimates, the development of the regional waste management plans become feasible.</td>
<td>Precise data supply for the development of the network of disposal and recovery facilities.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Immediate Objectives</th>
<th>Indicators of Achievement</th>
<th>How, When and By Whom Indicators Will Be Measured</th>
<th>Assumption and Risks</th>
</tr>
</thead>
<tbody>
<tr>
<td>• An established EU conform waste management information flow, co-ordinated through a common organisational platform involving all concerned Ministries and institutions.</td>
<td>• The Environmental Inspectorates will be able to elaborate regional waste management plans. Co-operation with industry improved.</td>
<td>• Reports on pilot tests and site inspections by the Ministry for Environment and other involved institutions.</td>
<td>• Continued commitment of the Hungarian Government to adopting the Acquis</td>
</tr>
<tr>
<td>• Improved capacity of the disposal and recovery facilities network.</td>
<td>• Waste management reporting meets the requirements of the new Hungarian Legislation and the European Union regulations.</td>
<td>• Steering Committee minutes</td>
<td>• Staff and financial resources for operating the system and preparing the regional waste management plans available</td>
</tr>
<tr>
<td>• Precise guidelines for the preparation of the regional waste management policies/plans to implement the environmental Acquis.</td>
<td>• Experts working for the environmental inspectorates and other involved organisations will be sufficiently trained. Progress reports by the implementing agencies.</td>
<td>• New Hungarian Waste Act enacted.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outputs</th>
<th>Indicators of Achievement</th>
<th>How, When and By Whom Indicators Will Be Measured</th>
<th>Assumption and Risks</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Twinning arrangement successfully carried out</td>
<td>• All guaranteed results of the twinning arrangement reached.</td>
<td>Experts working for the environmental inspectorates and other involved organisations will be sufficiently trained. Progress reports by the implementing agencies.</td>
<td></td>
</tr>
<tr>
<td>• an EU compatible study/master plan on the institutional structure of collecting, processing and distributing information on waste streams, also reflecting EU expertise in the preparation of the guidelines.</td>
<td>• Study/master plan accepted by the authorities concerned.</td>
<td>• New Hungarian Waste Act enacted.</td>
<td></td>
</tr>
<tr>
<td>• Adequate waste management information processing system installed at the involved institutions.</td>
<td>• All data processing and communication equipment deliverables delivered on time and at the correct quality level, as planned.</td>
<td>• National Waste Management Plan prepared</td>
<td></td>
</tr>
<tr>
<td>• Guidelines for regional waste management plans.</td>
<td>• Reliable waste management plans</td>
<td>• Qualified officers for staff training available</td>
<td></td>
</tr>
<tr>
<td>• Operator and end-user training programmes completed including the staff at the environmental inspectorates. 87 persons trained for regional waste management planning.</td>
<td>• Some 143 expert staff trained for using the database and 87 for applying its outcome in preparing waste management plans.</td>
<td>• Training of trainers successfully carried out</td>
<td></td>
</tr>
<tr>
<td>• Adequate public access secured.</td>
<td>• Continuous access to information for the public and business sectors.</td>
<td>• Local co-finance available when needed</td>
<td></td>
</tr>
<tr>
<td>Inputs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 MEUR Phare contribution matched by a 464,000 Euro co-funding contribution of the participating institutions.</td>
<td></td>
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</tbody>
</table>
ANNEX 2
Detailed Implementation Chart

Proposed timetable for the Comprehensive waste management information system for planning regional waste management policy

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th></th>
<th>2001</th>
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<th>2002</th>
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<td>Waste management planning</td>
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<td></td>
</tr>
<tr>
<td>Information system</td>
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<td></td>
</tr>
</tbody>
</table>

Tendering period

Contracting

Project Activity
**ANNEX 3**

**Name of programme**: Comprehensive waste management information system for planning regional waste management policy PROJECT FICHE NO. HU2000-05

**CUMULATIVE CONTRACTING and DISBURSEMENT SCHEDULE for 2 MEUR (PHARE)**

<table>
<thead>
<tr>
<th></th>
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</tr>
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<tbody>
<tr>
<td>Contracted</td>
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<td>2</td>
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<tr>
<td>Disbursed</td>
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<td>0.300</td>
<td>0.300</td>
<td>0.300</td>
<td>2</td>
</tr>
</tbody>
</table>

NB: 1. all contracting should normally be completed within 6-12 months and **must** be completed within 24 months of signature of FM

2. all disbursements **must** be completed within 36 months of signature of the FM
ANNEX 4

Reference to feasibility/pre-feasibility studies

All necessary preparatory work have been completed and the Phare tender documents will be ready by the time of the signature of the Financing Memorandum.

Budapest, 07-02-2000
ANNEX 5

List of relevant Laws and Regulations

Legislation in general:

- 75/442/EEC on waste
- Commission Decision No. 97/662/EC on the reports on the implementation of certain prescriptions relating to waste (91/689, 94/62)

Area specific legislation:

1. Sources of law relating to hazardous waste:
   Commission Decision of 17 April 1996 establishing a format in which information is to be provided pursuant to Article 8 (3) of Council Directive 91/689/EEC on hazardous waste (Text with EEA relevance) (96/302/EC)

2. Sources of law in connection with packaging and packaging waste:

3. Sources of law in connection with waste oils:

4. **Sources of law in connection with polychlorinated biphenyls and triphenyls:**

5. **Sources of law in connection with batteries and accumulators:**

6. **Sources of law in connection with Sewage sludge:**
ANNEX 6

Reference to relevant Government Strategic plans and studies may include Institution Development.

**Title:** Comprehensive waste management information system for planning regional waste management policy.

**Government strategic plans:** The planned work is in accordance with the targets set out in the "National Environmental Program".