Management System on Drinking Water Monitoring in Chief Sanitary Inspectorate

1. Basic Information
   1.1 CRIS number: 2004/016-829.03.02 Twinning No: PL2004/IB/EN/02
   1.2 Title: Management System on Drinking Water Monitoring in Chief Sanitary Inspectorate
   1.3 Sector: Environment – Health protection
   1.4 Location: Poland

2. Objectives
   2.1 Overall objective
   The general objective of this project is the improvement of the management system on drinking water monitoring in the Chief Sanitary Inspectorate.

   2.2 Project purpose:
   ♦ To continue implementation of the Acquis Communautaire, in particular as regards to fully implementation of the directives on drinking water, particularly as concerns Polish law - elaborating a consolidated text of an act, which will lay down conditions of conducting water quality supervision
   ♦ Complete drinking water risk assessment procedures in every region of Poland.
   ♦ Improvement of qualifications of Sanitary Inspection’s and National Institute of Health’s employees and involved institutions in the scope of Geographic Information System and procedure of informing about the health risk.

2.3 Justification
   The project is in line with the Comprehensive monitoring report on Poland’s preparation for membership (22th Chapter –Environment), which states, that drinking water monitoring needs to be enhanced.

3. Description
   3.1 Background and justification
   The aim of the project is continuation of the activities of the Phare 2002 project Monitoring of drinking water quality PL 2002/000-580.05.02, which aim is institutional and investment strengthening of the State Sanitary Inspection’s units in the range of water quality monitoring.

   Phare 2002 project Monitoring of drinking water quality PL 2002/000-580.05.02 linked in activities to implement Directive 98/83/EC, which obliged Polish law to conform to its demands. Implementation of this Directive in the range of water quality monitoring was done according to the Regulation of the Ministry of Health 19 November 2002 on requirements of drinking water quality.

   During the realization of the project Phare 2002 Monitoring of drinking water quality PL 2002/000-580.05.02 raised many activities before not foreseen, for example - the necessity of creation new act that would regulate the management of water quality and necessity of creation the Geographic Information System including information about health risk assessment linked to water quality. The system of indispensable training will permit the institutional enforcement of SSI (PIS) in the range of conducting monitoring and informing about the health risk connected with the water quality. Besides traditional training it is planned to create a system of constant training as Distance Learning System.
   It is also planned creating a team, which would in active way collaborate with agents of Aqueduct Companies.
   Considering the multiplicity of the case of conducting water quality monitoring and the range of undertaken activities, continuation and fulfilling the activities of this project is
indispensable. It is also necessary to integrate different sources of data and adopt the reporting system to EU standards.

The results of the ongoing Phare project will feed into the activities of this proposal. For this reason it is likely that activities will be further specified at a later stage, notably when all results of the Phare project will be available.

3.2 Linked activities:
Phare 2002 PL 2002/000-580.05.02 Monitoring of drinking water quality. Within the twinning co-operation the Polish law concerning the water quality surveillance and control systems in Poland will be adapted to the EU requirements and the drinking water monitoring system developed. Moreover, the SSI and NIH units will be provided with specialist laboratory, computer and software equipment and the employees of these institutions will be trained. The Transition Facility project could be a continuation of the twinning co-operation in the field of management of water quality and preparation a system of training for different bodies.

3.3 Results:
The planned results of the project are as follows:
♦ regulations concerning quality water management created
♦ the procedures of assessing health risk resulting from water consumption implemented in the entire territory of the country,
♦ the employees of the State Sanitary Inspection, the National Institute of Hygiene and the Main Statistical Office adequately trained in the scope of informing about health risk as well as in the scope of using Geographic Information System,
♦ Distance Learning System in the scope of drinking water quality management and monitoring system prepared and implemented,
♦ the data sources and the reports elaborated by the SSI, NIH and Main Statistical Office meet the EU’s requirements and standards concerning drinking water quality.

3.4 Activities:
In order to fulfil the project correctly the following actions should be taken:

- elaboration of the basis for an act concerning conducting water quality control,
- training in the scope of methods of informing about the health risk and using of Geographic Information System for:
  - the employees of the State Sanitary Inspection (48 persons), the National Institute of Hygiene (2 persons) and the Main Statistical Office (20 persons),
  - trainers (50 persons), who will instruct agents of Aqueduct Companies;
- elaborating of assumptions of new informatics techniques as Distance Learning System and their implementation;
- adapting data sources and adapting reports concerning water quality that are generated by the SSI and the NIH and the Main Statistical Office to the EU requirements and standards
- preparing of assumptions of annual publications/ guide-books/ reports concerning drinking water quality;
- purchasing of equipment for collecting and forwarding of geographic co-ordinates for the SSI and the NIH units (national financing)
- purchase of GPS system for the SSI and the NIH units, including: software preparing analysis, processing and visualization of data coming from database of water quality, which are collected by the GPS system (national financing)

If some of Phare 2002 project’s results are not achieved, they might be filled during the implementation of the actual proposal.

**Twinning:**
In order to ensure fulfilment of the tasks predicted by the project a Resident Twinning Adviser’s assistance and short-term expert’s assistance will be necessary.

RTA will be responsible for supervision and coordination of the project’s fulfilment and should include:

- help in adjusting the system of supervision over water quality to the EU’s requirements, including organisation of training and preparing assumptions for the implementation of the regulations, which are adjusted to the EU law,
- preparing assumptions of an law concerning complex management of water quality,
- elaborating of schemes of collaboration and training of Aqueduct Companies agents,
- elaboration of assumptions for new informatics techniques as Distance Learning System and their implementation,
- assistance in elaborating publications/ guide-books/ reports regarding water quality.

RTA should meet the following criteria:
- capacity in collaboration in creation the new law
- knowledge connected with management of data coming from GPS and creating electronic map,
- experience in conducting Distance Learning System and organization of training in this subject,
- experience in creation of a team for contacting the Aqueduct Companies agents,
- good knowledge of English or Polish

Short term expert will be responsible for propositions of that range and organisation necessary training
- experience in using of systems of data transforming coming down from GPS,
- experience in conducting Distance Learning System and organization of training in this subject,
- good knowledge of English or Polish

**Technical Assistance:**
- organization of training for employees of the SSI and the NIH and the Main Statistical Office that concern the methods of informing about the health risk linked to water quality (approximately 70 persons); 
- organization of training for employees of the SSI and the NIH and the Main Statistical Office in the field of using Geographic Information System (approximately 70 persons) and organisation of courses for trainers, who will instruct agents of Aqueduct Companies (approximately 50 persons)

**Investment contracts:**
Purchase of equipment and software will be done in the frame of national financing:
- purchasing of equipment for collecting and forwarding of geographic co-ordinates (national financing – 81 374 euro)
- purchase of GPS system, including: software preparing analysis, processing and visualization of data coming from database of water quality, which are collected by the GPS system (national financing – 177 632 euro)
- purchase of numerical map of Poland (national financing – 167 994 euro)

3.5 Lessons learned:
There have not been any conclusions and recommendations applying to Chief Sanitary Inspectorate and National Institute of Hygiene in previous Interim Evaluations and M&A Reports on earlier projects.

4.1 Institutional framework
- Minister of Health;
- Chief Sanitary Inspector;
- National Institute of Hygiene;
- Sanitary-Epidemiological Stations;

5. Detailed budget

<table>
<thead>
<tr>
<th>Contract</th>
<th>Transition Facility</th>
<th>National co-financing</th>
<th>Total</th>
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<tbody>
<tr>
<td></td>
<td>Investments (IN)</td>
<td>Institutional</td>
<td>National co-</td>
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<td></td>
<td>EUR</td>
<td>reinforcement (IB)</td>
<td>financing (IN+IB) EUR</td>
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<tr>
<td>Twinning</td>
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<td>1 000 000</td>
<td>0   200 000</td>
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<td>Technical assistance: Training</td>
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<td>128 100</td>
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<td>Investments</td>
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<td>0   427 000</td>
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<td>Total</td>
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<td>1 128 100</td>
<td>0   627 000</td>
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6 Implementation arrangement
6.1 Implementing Agency
PAO: Tadeusz Kozek, Under-Secretary of State, Office of the Committee for European Integration Al. Ujazdowskie 9, 00 – 918 Warsaw phone +48 22 455 52 41, fax +48 22 455 52 43
CFCU: Co-operation Fund, ul. Górnośląska 4a, 00 – 444 Warsaw; phone. +48 22 622 84 64, fax +48 22 622 95 69.
CFCU will be responsible for handling tendering, contracting and payments of contracts on behalf of the Ministry of Health, which will be responsible for preparation of projects and administration of its technical implementation.

6.2 Twinning
One long-term expert (12 months in Poland) and a few other short-term experts (training experts and trainers, 15 persons / 30 days).
Experts will be residing in Chief Sanitary Inspectorate, ul. Długa 38 / 40, Warszawa
Contact: Maria Machlarz, Chief Sanitary Inspectorate, phone (0-22) 536 13 11
6.3 Non – standard aspects
N.a.

6.4 Contracts
Twinning - 1 000 000 EUR + 200 000 EUR Polish parallel co-financing;
Technical assistance – training – 128 100 EUR – gross value;
Investments – contract – Polish financing - 427 000EUR – gross value.

7 Implementation schedule
7.1 Start of tendering: First quarter of 2005
7.2 Start of project activity: Third quarter of 2005
7.3 Project Completion: First quarter of 2007

8 Sustainability
Financial means for the maintenance of the equipment and software bought are predicted. The staff to its service is also ensured.

9 Conditionality and sequencing
Condition of the project
Implementation of the project should begin after obtaining the main predicted results of Phare 2002/000-580-05-02 „Monitoring drinking water quality”.

Sequence of the main activities
Sequence of activities:
- harmonization of the country’s legal regulations in the scope of water quality monitoring,
- elaboration and preparation of DLS training,
- broadening the possibilities of the informatics system assisting drinking water quality monitoring in the State Sanitary Inspection, National Institute of Hygiene, sanitary-epidemiological stations and in the Main Statistical Office,
- training the employees of the National Institute of Hygiene, Chief Sanitary Inspectorate, sanitary-epidemiological stations in the scope of drinking water quality informatics system’s possibilities,
## Annexes to project fiche

### 1. Logframe

<table>
<thead>
<tr>
<th>Logframe planning matrix for:</th>
<th>Program name and number</th>
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</thead>
<tbody>
<tr>
<td>Project Management System on Drinking Water in Chief Sanitary Inspectorate</td>
<td>Contracting period expires&lt;br&gt;1 quarter 2006r.</td>
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<tr>
<td><strong>Total budget</strong></td>
<td><strong>TF Budget</strong></td>
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<td>1 755 100</td>
<td>1 128 100 EUR</td>
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</table>

### Overall objective

<table>
<thead>
<tr>
<th>Improvements of the management system on drinking water monitoring in the Chief Sanitary Inspectorate</th>
<th>Objectively Verifiable Indicators</th>
<th>Sources of Verification</th>
</tr>
</thead>
</table>
| management system on drinking water monitoring in the Chief Sanitary Inspectorate improved by the end of the project | • National Institute of Hygiene’s documents;  
• Chief Sanitary Inspectorate’s documents;  
• Central Statistical Office’s documents;  
• Analyses and reports of the State Sanitary Inspection,  
• Reviews of the EU’s experts and inspectors.-  
• Evaluation Reports |

### Project purpose (Immediate Objectives)

| To continue implementation of the acquis communautaire, in particular as regards to fully implementation of the directives on drinking water, particularly as concerns Polish law - elaborating a consolidated text of an act, which will lay down conditions of conducting water quality supervision  
♦ Complete drinking water risk assessment procedures in every region of Poland  
♦ Improvement of qualifications of Sanitary Inspection’s and National Institute of Health’s employees and involved institutions in the scope of Geographic Information System and procedure of informing about the health risk. | Objectively Verifiable Indicators | Sources of Verification |
|-----------------------------------------------------------------|----------------------------------|-------------------------|
| By the end of the project:  
- the consolidated text of the act concerning quality water management elaborated and submitted Polish Government,  
- drinking water risk assessment procedures are implemented in 16 region of Poland, | • Chief Sanitary Inspectorate’s documents;  
• National Institute of Hygiene’s documents;  
• State Sanitary Inspection’s documents  
• Monitoring Reports  
• Evaluation Reports |

### Results

<table>
<thead>
<tr>
<th>Objectively Verifiable Indicators</th>
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| regulations concerning quality water management created  
the procedures of assessing health risk resulting from water consumption implemented in the entire territory of the country,  
the employees of the State Sanitary Inspection, the National Institute of Hygiene and the Main Statistical Office adequately trained in the scope of informing about health risk as well as in the scope of using Geographic Information System,  
Distance Learning System in the scope of drinking water quality management and monitoring system prepared and implemented,  
the data sources and the reports elaborated by the SSI, NIH and Main Statistical Office meet the EU’s requirements and standards concerning drinking water | • Chief Sanitary Inspectorate’s documents;  
• National Institute of Hygiene’s documents;  
• State Sanitary Inspection’s documents  
• Monitoring Reports |

<table>
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<tr>
<th>Assumptions</th>
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</table>
| • Lack of knowledge of EU’s requirements in the scope of reports on drinking water quality;  
• Lack of knowledge of EU’s requirements in the scope of assessment of materials and products having contact with drinking water;  
• Lack of knowledge of EU’s requirements in the scope of water safety plans’ assessment. |

### Management System on Drinking Water Monitoring in Chief Sanitary Inspectorate
<table>
<thead>
<tr>
<th>Activities</th>
<th>Objectively Verifiable Indicators</th>
<th>Source of Verification</th>
<th>Assumptions</th>
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<tbody>
<tr>
<td>elaboration of the basis for an act concerning conducting water quality control, training in the scope of methods of informing about the health risk and using of Geographic Information System for:</td>
<td><strong>Twinning Technical assistance:</strong> training in the subject of methods of informing about health risk and in the frame of utilizing Geographic Information System</td>
<td>Monitoring Reports</td>
<td>the project should begin after obtaining the main predicted results of Phare 2002/000-580-05-02 „Monitoring drinking water quality</td>
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<td>– the employees of the State Sanitary Inspection (48 persons), the National Institute of Hygiene (2 persons) and the Main Statistical Office (20 persons),</td>
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**Preliminary conditions**

- Ending of restructurisation of the SSI in the frame of municipal hygiene
2. **Implementation, contracting and disbursement schedule**

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**Legend:**
- D = design of sub-projects
- C = tenders and contracting
- I = contract implementation and payment
- * give total amounts in MEUR by increasing number

**Notes:**
- Drafting date: 01 - 2004
- Planning Period: January 2005 – March 2007