1. **Basic Information**

   1.1 **CRIS Number**: 2006/018-180.03-01  
   1.2 **Twinning No**: PL/06/IB/EN/01  
   1.3 **Title**: Training of water quality monitoring for State Sanitary Inspection  
   1.4 **Location**: Poland, Warsaw, Ministry of Health, Chief Sanitary Inspectorate

2. **Objectives**

   2.1 **Overall objective**:  
   The general objective of this project is to improve the sanitary supervision system in the frame of drinking water quality on the basis of Directive 98/83/EC and Directive 89/106/EEC relating to water risk assessment, safeguard human health and improved water quality.

   2.2 **Project purpose/immediate objective**:  
   - Development of monitoring rules for health threats resulting from inadequate drinking water quality including water-borne diseases and health risk assessment,  
   - Strengthening quality control/quality assurance activities in the field of determination of chemical parameters in water intended for human consumption (in compliance with 98/83/EC Directive) performed in State Sanitary Inspection laboratories,  
   - Improvement of State Sanitary Inspection surveillance on new water treatment technologies and materials in contact with drinking water and their influence on drinking water quality and possible consequences for human health,  
   - Development of strategies for informing consumers about drinking water quality including emergency situations developed and in use.

   2.3 **Justification**
   
   The necessity of objectives accomplishment results from the “Comprehensive monitoring report on Poland’s preparation for membership” (22nd Chapter – Environment), where strengthening monitoring of water quality is recommended. The project addresses the requirements of the Directive 98/83/EC on the quality of water intended for human consumption and the Directive 89/106/EEC relating to construction products. The project aims to create the supervision system on water quality in recreation and sport centres too.

3. **Description**

   3.1 **Background and justification**:  
   The overall objective of the Phare project 2002 “Monitoring of drinking water quality PL 2002/000-580.05.02” was institutional and investment strengthening of the State Sanitary Inspection units within the scope of the monitoring of drinking water quality. The implementation of Directive 98/83/EC within the scope of monitoring of drinking water quality was carried out in accordance with the ordinance of the Minister of Health of 19 November 2002 on requirements for the quality of water intended for human consumption.
Sanitary-Epidemiological Stations were equipped in specialist laboratory and PC equipment. Works on the creation of electronic database of drinking water monitoring system have been started.

Simultaneously, in 2006 the realisation of project PL04/IB/EN02 “Management System on Drinking Water Monitoring in Chief Sanitary Inspectorate” began. One result of the above-mentioned project is to establish the Geographical Information System comprising information on health risk assessment related to water quality.

In 2006 implementation of TF 2005/017-488.03.03 is going to start which will be aimed at the improvement of the sanitary supervision system for purpose in the frame of: health threats which may result from the methods of water treatment, water storage and water distribution, health threats within the scope of the water used for recreation and sport purposes, water radioactivity monitoring.

Taking into consideration complexity of water quality monitoring and range of early works, continuation of this works to make integration management system is very complex and long – lasting.

Accordingly at present, the Chief Sanitary Inspectorate (CSI) in collaboration with the National Institute of Hygiene (NIH) has undertaken the realisation of the task of creation of the sanitary supervision system of water quality monitoring management, so now we would like to have certainty, that this system would work satisfactorily and would be developed.

Simultaneous cooperation with another country would be very useful for data exchange and getting experiences in the field of water quality monitoring and health risk assessment.

Therefore Chief Sanitary Inspectorate with cooperation with National Institute of Hygiene took a decision to continue this project. That’s why Chief Sanitary Inspectorate with cooperation with National Institute of Hygiene is taking a decision at the moment about continuation of activities in the scope of this project.

By reason of that we are faced with the necessity of continuation of specified projects for the purpose of improvement of water quality delivered to consumers and allowing units of Chief Sanitary Inspectorate to control more precisely quality of water delivered to consumers.

This project doesn’t overlap with TF 2004/016-829.03.02 and TF 2005/017-488.03.03 because its activities and results are directed to trainings.

3.2 Linked activities:

- The 2002 Phare project “Monitoring of drinking water quality PL 2002/000-580.05.02” was aimed to adopt the water quality surveillance and control systems in Poland to the EU requirements and to develop the drinking water monitoring system.
  Results: people trained, number of laboratory equipment delivered, number of IT equipment delivered, specialist software delivered and worked

- The Transition Facility 2004 project 2004/016-829.03.02 “Management System on Drinking Water Monitoring in Chief Sanitary Inspectorate” which aims to modernisation of drinking water monitoring management system in Chief Sanitary Inspectorate.
Purpose: improve the management system on drinking water monitoring in the Chief
Sanitary Inspectorate.
Results: people trained, guidelines prepared, Distance Learning System worked, Geographic Information System worked

3.3 Results:

The foreseen results of the project are as follows:

- Risk management strategies for water-borne diseases developed.
- Estimation of health risk of indicatory occurrence of pathogen bacteria and parasite protozoan in water prepared,
- Quality Management System procedures elaborated in State Sanitary Inspection activities in the field of water sector policy,
- System of monitoring and estimation of biofilm formation on materials in water distribution network according to requirements of EAS created,
- Guidelines on the methodology of reporting on the drinking water quality prepared and system of informing consumers on drinking and bathing water quality prepared.
- Quality control/quality assurance scheme for determination of chemical parameters in water intended for human consumption in compliance with 98/83/EC Directive established,

3.4 Activities:

**Twinning: 583 800 €**

- Development of system of water management (monitoring) – born diseases and risk assessment
- Training seminars focused on estimation of health risk and occurrence indicatory of pathogen bacteria and parasite protozoan in water
- Training seminars focused on results of water inspection in the scope of Quality Management System
- Creation of system for monitoring and estimation of materials in contact with drinking water
- Creation of system of monitoring and estimation of biofilm formation on materials in water distribution network according to requirements of EAS created
- Creation of system for consumer informing about water quality,
- 2 study trips to MSs to gain experience with their systems of quality control/quality assurance for determination of chemical parameters in water intended for human consumption.

In order to fulfill the project correctly the following actions should be taken:

- Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of development of risk management of quality water – water-borne diseases,(3.4.1)
- Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of estimation of health risk of occurrence indicatory and pathogen bacteria and parasite protozoan in water, (3.4.2)
- Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of monitoring and estimation of materials in contact with drinking water during treatment, storage and distribution,(3.4.4)
- Study visit for the employees of the State Sanitary Inspection (about 10 persons), including the employees of the National Institute of Hygiene (4 persons) in the frame of microbiological methods of estimation of material contact with drinking water,(3.4.5)
- Creation of system monitoring and estimation of materials in contact with drinking water,(3.4.6)
- Elaboration of procedures concerning materials admitted to contact with drinking water,
- Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of new water treatment technologies in health aspect,(3.4.7)
- Establishing the working group (including 3 persons from National Institute of Hygiene) for creation of quality control/quality assurance scheme for determination of chemical parameters (including metals determination by different atomic spectroscopic techniques, determination of PAHs by high-performance liquid chromatography with fluorescence detection, determination of THMs by GC with electron capture detection and determination of disinfection by-products by ion chromatography with conductometric detection) in water intended for human consumption according to 98/83/EC Directive ,(3.4.8)
- Study visit for 10 persons (including 4 persons from National Institute of Hygiene and 6 persons from SSI) in the accredited laboratory/-ies where quality control/quality assurance scheme for determination of chemical parameters (metals, PAHs, THMs and disinfection by-products) in water intended for human consumption (in compliance with 98/83/EC Directive) was applied. Additionally participants will be trained in above mentioned field and quality control/quality assurance scheme used in Polish laboratories will be presented ,(3.4.9)
- Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of quality control/quality assurance of determination of chemical parameters in water intended for human consumption - in compliance with 98/83/EC Directive,(3.4.10)
- Methods of consumers informing about water quality, including data base system for consumers (3.4.11)

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

RTA., 15 MMS – public servant from MS:

- Highly experienced in the field of management and inspection for sanitary supervision for water,
- International experience with implementation of similar projects,
- Good knowledge of English.

The task of RTA will consist of acting as a co-ordinate preparation of training activities as well as delivery of some of them. He will deal with all planning and cooperation with Polish site – helping and advising them in water monitoring.
The RTA will be responsible for supervision and coordination of the project. Role of RTA will be to organize and ensure activities planned in the framework of the project, including activities for short-term experts (STEs).
RTA costs approx. 250 000 €

Approx. 15 STEs, 7 MMS – highly experienced in the field of management and inspection for: sanitary supervision for water and experienced with training people, STE costs approx. 250 000€

Member State Project Leader:
- Has worked in management of water monitoring for at least 10 years;
- Has management position in health or environmental organization/institution to allow him to coordinate the project and find experts in the twinning country,
- Previous experience in water monitoring training projects’ implementation would be preferable (however not mandatory)
- Good knowledge of English

The tasks of PL will consist of acting as a co-ordinate of all activities necessary to be undertaken to prepare the input from the MS site. He will cooperate with the Polish PL whenever necessary, end especially he will prepare Quarterly Reports and Final Report. He will ensure that all MS administration including Short Term Experts will be committed and available whenever necessary for the project purposes. He will cooperate closely with RTA to ensure smooth realisation of the project.

Short-term experts
General tasks: they would be responsible for: the training activities, implementation of analytical method in the laboratory as well as preparation of the technical documentation. 
General requirements for STE: knowledge and experience in the above mentioned areas - university education in biology, environmental – health, biochemistry, chemistry, etc; good knowledge of the current acquis communautaire in the scope of this project, experienced with the official health/ sanitary supervision – according to the subject they will train in.

The beneficiary will enable the RTA and other experts to possess basic knowledge on the project background, providing information on present law regulations in Poland, characteristics of the needs in the scope of implementation of European Union law regulations. The beneficiary will coordinate participation of employees of the Polish state sanitary inspection in the expert missions as well as by providing necessary equipment for the missions.

Seminars: about. 5 seminars x 5 days, approx. 60 000 €
Study visits: 2 study visits to EU MSs x ca 10 participants each, 4-5 days, approx. 23 800 €

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. Institutional framework
4.1 Brief description

In the Ministry of Health, the State Sanitary Inspection is the official control water quality. The State Sanitary Inspection is the entity which plays a leading role in the water monitoring system that helps to reduce the health risks for the consumers. The State Sanitary Inspection (with the central level authority - the Chief Sanitary Inspectorate (CSI)) consists of 16 Voivodeship Sanitary/Epidemiological Stations (VSESs) and more than 300 Poviat Sanitary/Epidemiological Stations (PSEEs) and also Border Epidemiological/Sanitary Stations (BSESs). All of them are responsible for providing surveillance over the whole Poland. SSI cooperates strongly with National Institute of Hygiene (NIH).

The following institutions will be involved at the local level:
- Sanitary-Epidemiological Stations (SES);
- National Institute of Hygiene (NIH);

5. Detailed Budget

<table>
<thead>
<tr>
<th>€M</th>
<th>Transition Facility support</th>
<th>Co-financing</th>
<th>Total cost (TF + co-financing)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Investment support (I)</td>
<td>Institution Building (IB)</td>
<td>Total Transition Facility (=I+IB)</td>
</tr>
<tr>
<td>Contract – Twinning</td>
<td>0</td>
<td>583 800</td>
<td>583 800</td>
</tr>
<tr>
<td>Total</td>
<td>0</td>
<td>583 800</td>
<td>583 800</td>
</tr>
</tbody>
</table>

(*) contributions from National, Regional, Local, Municipal authorities, FIs loans to public entities, funds from public enterprises
(**) private funds, FIs loans to private entities

The amounts for national co-financing indicated in the table correspond to cash co-financing, unless otherwise stated. Contributions from the Polish administration for effective implementation of the twinning may be further detailed in the twinning contract. Unless otherwise indicated joint cofinancing is provided.

VAT does not constitute eligible expenditure except where it is genuinely and definitely borne by the final beneficiary. VAT which is considered recoverable, by whatever means, cannot be considered eligible, even if it is not actually recovered by the final beneficiary or individual recipient.

In case of parallel cofinancing, the following activities will be financed from the parallel cofinancing provision in the budget table:

**Twinning:**
Office for RTA and assistants, seminar venue, accommodation, catering, didactic materials (costs approx 80 000 €)

**Trainings:**
Training of water quality monitoring for State Sanitary Inspection

Seminar venue, accommodation, catering, didactic materials (costs approx 200 000 €)

Study Visits:
Costs of study visits approx 20 000 €

6. Implementation arrangements

There will be a Project Steering Committee (PSC) established in order to speed up the implementation process of the given project components in the first months after Financial Decision for Transition Facility 2006 is taken. The structure of the Committee will be working as an advisory and monitoring body until particular components are contracted and thus where appropriate may be replaced by the Twinning Steering Committee.

The participants of the Project Steering Committee will be representatives of the following institutions: PAO, NAC, CFCU and beneficiary (SPO, contact person as indicated in the fiche and representative from Office for Foreign Aid Programmes in Heath Care). It is also recommended to invite representatives of NAO services while the issues of financial management flow are to be comprehensibly discussed. The Project Steering Committee will meet every quarter starting from the date of signing the Financial Decision and will concentrate on discussing the problem occurred at the beginning phase of project implementation as well as on defining possible solutions and corrective measures. The PAO representative will organise and chair the PSC meetings.

6.1 Implementing Agency

CFCU : Co-operation Fund, 4A Górnośląska Str., 00 – 400 Warszawa,
tel. +48 22 622 88 20, 661 76 33, fax +48 22 622 75 65 The CFCU is responsible for handling tendering, contracting and payments of contracts on behalf of the (Ministry of Health and Chief Sanitary Inspectorate.).

PAO : Pan Tadeusz Kozek, Under-secretary of State at the Office for the Committee for European Integration, Al. Ujazdowskie 9, 00 – 918 Warszawa tel. +48 22 455 52 41, fax +48 22 455 52 43.

6.2 Twinning

Project Leader and a number of short-term experts (training of national experts and trainers)
One long-term expert (RTA) and a number of short-term experts will assist in project implementation: consultations continually throughout 15 months of stay in Poland, short-term experts with adequate knowledge and experience
Project beneficiaries: Chief Sanitary Inspectorate, Sanitary - Epidemiological Stations and the National Institute of Hygiene,

Senior Project Officer: Izabela Fengler, Director of Department of Environmental Hygiene, ul. Długa 23/25, 00 –238 Warszawa, +48 22 536 14 90, fax.: 826 50 63

Polish Counterpart/ Contact person: Maria Machlarz, M.Sc, the Chief Sanitary Inspectorate, Department of Environmental Hygiene, 00 – 238 Warszawa, ul. Długa 23/25, tel. +48 22 536 14 11, fax.: 826 50 63

Administrative Office: Department for Institution Building Programmes, Office of the Committee for European Integration, Aleje Ujazdowskie 9, Warsaw, Phone: 48 22 455 52 15, Fax: 48 22 455 52 14
Polish Project Leader – Maria Machlarz, M.Sc, the Chief Sanitary Inspectorate, Department of Environmental Hygiene, 00 – 238 Warszawa, ul. Długa 23/25, tel. +48 22 536 14 11, fax.: 826 50 63
6.3 Non-standard aspects
N/A
6.4 Contracts

Twinning contract: **883 800 Euro gross value** (TF **583 800 + 300 000** Polish co-financing) parallel co-financing

7. Implementation schedule
7.1 Commencement of contracting process: IV quarter 2006
7.2. Start of project implementation (signature of contract): II quarter 2007
7.3. Project completion: IV quarter 2008

8. Sustainability

The employees of the State Sanitary Inspection trained and capable of dissemination of their knowledge after the completion of the project. Trainings will be organized by the representatives of voivod sanitary stations within the framework of state sanitary supervision.

9. Conditionalities and sequencing

9.1 Conditionalities
Implementation of the project will commence after having achieved the main planned results of Phare project 2002/000-580-05-02 *Monitoring of drinking water quality*.

9.2. Sequencing:
- Start of tendering – IV q. 2006;
- Start of project activities – II q. 2007;
- Implementation of the project in co-operation with the Consultant, twinning partner and beneficiary institutions – 2007-2008.
Annex 1: Logframe matrix

<table>
<thead>
<tr>
<th>LOGFRAME PLANNING MATRIX FOR THE PROJECT</th>
<th>Programme name and number</th>
<th>Contracting period expires</th>
<th>Disbursement period expires</th>
<th>Total budget</th>
<th>Transition Facility Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Training of water quality monitoring</td>
<td></td>
<td>IV quarter 2008</td>
<td>IV quarter 2009</td>
<td>883 800</td>
<td>583 800</td>
</tr>
</tbody>
</table>

**Overall objective**

The general objective of this project is to improve the sanitary supervision system in the frame of drinking water quality on the basis of Directive 98/83/EC and Directive 89/106/EEC relating to water risk assessment, safeguard human health and improved water quality.

**Objectively Verifiable Indicators**


**Sources of Verification**

- Legislation acts,
- reports of voivod sanitary station,
- evaluation report
- the report on procedures implemented in order to increase efficiency of the drinking water quality monitoring and health risk assessment

**Project purpose (Immediate Objectives)**

<table>
<thead>
<tr>
<th>Objectively Verifiable Indicators</th>
<th>Sources of Verification</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Legislation acts,</td>
<td>• reports of voivod</td>
</tr>
<tr>
<td>• evaluation report</td>
<td>•             sanitary station,</td>
</tr>
<tr>
<td>• the report on procedures</td>
<td>•             implemented in order</td>
</tr>
<tr>
<td>implemented in order to</td>
<td>•             increase efficiency</td>
</tr>
<tr>
<td>to increase efficiency of the</td>
<td>•             of the drinking</td>
</tr>
<tr>
<td>drinking water quality</td>
<td>•             water quality</td>
</tr>
<tr>
<td>monitoring and health risk</td>
<td>•             assessment</td>
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<tr>
<td>assessment</td>
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</tbody>
</table>
Training of water quality monitoring for State Sanitary Inspection

<table>
<thead>
<tr>
<th>Results</th>
<th>Objectively Verifiable Indicators</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of monitoring rules of health threats resulting from inadequate drinking water quality including water – born diseases and health risk assessment, Strengthening quality control/quality assurance activities in the field of determination of chemical parameters in water intended for human consumption (in compliance with 98/83/EC Directive) performed in State Sanitary Inspection laboratories, Improvement of State Sanitary Inspection surveillance on new water treatment technologies and materials in contact with drinking water and their influence on drinking water quality and possible consequences for human health, Development of strategies of informing consumers about drinking water quality including emergency situations developed and in use.</td>
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</tr>
</tbody>
</table>
### Training of water quality monitoring for State Sanitary Inspection

- Risk management strategies for water-borne diseases developed,
  - Estimation of health risk of indicatory occurrence of pathogen bacteria and parasite protozoan in water prepared,
  - Quality Management System procedures elaborated in State Sanitary Inspection activities in the field of water sector policy,
  - System of monitoring and estimation of biofilm formation on materials in water distribution network according to requirements of EAS created,
  - Guidelines on the methodology of reporting on the drinking water quality prepared and system of informing consumers on drinking and bathing water quality prepared.
- Quality control/quality assurance scheme for determination of chemical parameters in water intended for human consumption in compliance with 98/83/EC Directive established,
- Procedures on materials allowed to contact with drinking water elaborated,
- QMS system elaborated in SSI,
- System of monitoring and estimation of materials in contact with drinking water created,
- Guidelines on the methodology of reporting on the drinking water and system of informing consumers on drinking and bathing water quality ready and operational,
- Quality control/quality assurance scheme for determination of chemical parameters in water intended for human consumption ready.

<table>
<thead>
<tr>
<th>Activities</th>
<th>Means</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of development of risk management of quality water – water-borne</td>
<td>Contract 1 – Twinning (1 RTA and approx. 15 STEs)</td>
<td>- internal procedures of sanitary-epidemiological stations, - reports of voivod sanitary station, - text of the guidelines</td>
<td>- good collaboration between units linked with sanitary supervision and other different units, - logistic and human resources commitment on the part of the beneficiary maintained</td>
</tr>
</tbody>
</table>


- Training of water quality monitoring for State Sanitary Inspection

1. Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of estimation of health risk of occurrence indicator and pathogen bacteria and parasite protozoan in water, (3.4.2)

2. Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of monitoring and estimation of materials in contact with drinking water during treatment, storage and distribution, (3.4.4)

3. Study visit for the employees of the State Sanitary Inspection (about 10 persons), including the employees of the National Institute of Hygiene (4 persons) in the frame of microbiological methods of estimation of material contact with drinking water, (3.4.5)

4. Creation of system monitoring and estimation of materials in contact with drinking water, (3.4.6)

5. Elaboration of procedures concerning materials admitted to contact with drinking water,

6. Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of new water treatment technologies in health aspect, (3.4.7)

7. Establishing the working group (including 3 persons from National Institute of Hygiene) for creation of quality control/quality assurance scheme for determination of chemical parameters (including metals determination by different atomic spectroscopic techniques, determination of PAHs by high-performance liquid chromatography with fluorescence detection, determination of THMs by GC with electron capture detection and determination of disinfection by-products by ion chromatography with conductometric detection) in water intended for human consumption according to 98/83/EC Directive, (3.4.8)

8. Study visit for 10 persons (including 4 persons from National Institute of Hygiene and 6 persons from SSI) in the accredited laboratory/ies where quality control/quality assurance scheme for determination of chemical parameters (metals, PAHs, THMs and disinfection by-products) in water intended for human consumption (in compliance with 98/83/EC Directive) was applied. Additionally participants will be trained in above mentioned field and quality control/quality assurance scheme used in Polish laboratories will be presented, (3.4.9)

9. Training for the employees of the State Sanitary Inspection (about 150 persons), the National Institute of Hygiene (4 persons) in the frame of quality control/quality assurance of determination of chemical parameters.
<table>
<thead>
<tr>
<th>Training of water quality monitoring for State Sanitary Inspection</th>
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</thead>
<tbody>
<tr>
<td>parameters in water intended for human consumption - in compliance with 98/83/EC Directive (3.4.10)</td>
</tr>
<tr>
<td>- Methods of consumers informing about water quality, including database system for consumers (3.4.11)</td>
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<td></td>
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<tr>
<td><strong>Preconditions</strong></td>
</tr>
<tr>
<td><em>Ending of restructurisation of the SSI in the frame of municipal hygiene</em></td>
</tr>
</tbody>
</table>
### Annex 2-3: Implementation, contracting and disbursement schedule

<table>
<thead>
<tr>
<th></th>
<th>Date of Drafting</th>
<th>Planning Period</th>
<th>Budget Allocation</th>
<th>Cost Estimate in MEUR</th>
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<table>
<thead>
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<th>III’07</th>
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<tbody>
<tr>
<td>Implementation schedule</td>
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<td>I</td>
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<td>0.5</td>
<td>0.5838</td>
<td>0.5838</td>
</tr>
</tbody>
</table>

**Legend:**
- D = design of contract and tendering
- C = signature of contract
- I = contract implementation and payment

*give total amounts in MEUR by increasing number