

## **Standard Summary Project Fiche – IPA decentralised National programmes**

(maximum 12/15 pages without the annexes)

### **1. Basic information**

#### **1.1 CRIS Number:**

**1.2 Title:**Conversion of River Basin Action Plans into River Basin Management Plans

**1.3 ELARG Statistical code:** 27 (Environment)

1.4 Sector: Environment and Climate Change

**1.5 Location:** Turkey

#### **Implementing arrangements:**

##### **Implementing Agency:**

The CFCU will be Implementing Agency and will be responsible for all procedural aspects of the tendering process, contracting matters and financial management, including payment of project activities. The director of the CFCU will act as Programme Authorizing Officer (PAO) of the project.

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##### **1.6Beneficiary (including details of SPO): Ministry of Forestry and Water Affairs**

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### **Financing:**

**1.7 Overall cost (VAT excluded)<sup>1</sup>: 6 600 000 EUR**

**1.8 EU contribution: 6.005.000 €;**

**1.9 Final date for contracting:**2 years after the signature of the Financing Agreement

**1.10 Final date for execution of contracts:**3 years following the last date of contracting

**1.11 Final date for disbursements:** *1 year following the end date for contracting*

## **2. Overall Objective and Project Purpose**

### **2.1 Overall Objective:**

To achieve a good environmental status for waters

### **2.2 Project purpose:**

Establishment of the adequate capacity in Turkey to implement the EU Water Framework Directive (2000/60/EC) and the related daughter directives especially for the preparation of River Basin Management Plans in accordance with the Water Framework Directive by way of converting River Basin Protection Action Plans (RBPAPs) into River Basin Management Plans (RBMPs) \*

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<sup>1</sup> The total cost of the project should be net of VAT and/or other taxes. Should this not be the case, the amount of VAT and the reasons why it should be considered eligible should be clearly indicated (see Section 7.6)

## **2.3 Link with AP/NPAA / EP/ SAA/ Progress Report**

**NPAA priority;** NP describes strengthening institutional, administrative and control capacity and continuing harmonization of EU legislation inside national legislation in order to support environmental and nature protection.

The main parts of the Strategy would be: “Institutions”, “Legislative Approximation and Implementation”, “Strengthening the Institutional Capacity” and “Financial Resources”:

- Under the “Institutions” part, the institutions at national, regional and local level responsible for the environment sector, responsibilities and units having inspection authority would be included.
- Under the “Legislative Approximation and Implementation” part, orders of the topics/subjects as in the screening report are taken into account and targeted calendar would be given.
- “Strengthening The Institutional Capacity” part would cover the future plans for national, regional and local levels.
- Under the “Financial Resources” part, the estimated financial burden to adopt and implement the whole EU environmental acquis would be given.

The Strategy Document further stipulates that the river basin management plans be preceded by River Basin Protection Action Plans prepared and the RBPAPs converted into RBMPs after 2014 by Ministry of Forestry and Water Affairs.

### **2011 Progress Report**

There has been very limited progress in the area of *water quality*. The institutional framework for water management is fragmented and not organised at river basin level. Preparations are on-going to convert a number of existing River Basin Protection Action Plans into river basin management plans. Transboundary consultations on water issues are still at a very early stage. The newly-adopted amendment to the Law on Groundwater is supposed to strengthen the application of the ‘polluter pays’ principle in relation to the measurement of groundwater consumption. A monitoring program in freshwaters and groundwaters for the implementation of the Nitrates Directive has been established. An integrated marine pollution monitoring system has also been put in place, for all surrounding seas.

## **2.4 Link with MIPD 2011-2013**

In MIPD, environment is one of the key intervention sectors. In addition to this in the indicative project pipeline for the next 3 years part of the document, water quality is being listed as one of the priority areas. One indicator is related to the “Improved water quality, in particular through advances in the transposition and implementation of the Water Framework Directive and including an integrated approach to the marine environment” according to MIPD.

## **2.5 Link with National Development Plan (where applicable)**

Turkey has completed the Preliminary National Development Plan (PNDP), which was prepared by the Ministry of Development. It includes development axis. Five development axes forming the basis of the PNDP Strategy are derived from the medium-term objectives and priorities of Turkey. One of the development axes of the PNDP includes the

environmental protection and improvement of the urban infrastructure services and the medium term objective with respect to environment is the preservation of the water resources, soil, increase in productivity of drinking water and sewerage services and of solid waste management.

## 2.6. Link with sector strategies and national / sectoral investment plans (where applicable)

In the Strategy Document of Turkey (Plan for Setting up Necessary Administrative Capacities at National, Regional and Local Level and Required Financial Resources for Implementing the Environmental Acquis) under the head of water quality, it was stated that “In Turkey, basin based national projects which are oriented to improve the water quality are still in progress. River Basin Protection Action Plans, in parallel with the “*Capacity Building Support for Water Sector in TURKEY*” project are prepared by the Directorate General for Water Management (DGWM) for 25 basins in Turkey. These plans include characteristics of the basin, pressures and impacts, measures to be taken and targets, protected areas, inclusion of the parts in the process and cost effective analysis of the measures to be taken. River Basin Protection Action Plans which are completed by the former DG for Environmental Management (DGEM) are implemented in the related basins. River Basin Protection Action Plans are tried to be executed in parallel with WFD, and are improved to be convenient to WFD” and the following implementation plan was defined.

	<b>Action</b>	<b>Year</b>	<b>Remarks</b>
1	Transposition into Turkish legislation	2011	Full transposition will be ensured by the date of accession
2	Designation of River Basin District	2012	25 basins have already been defined.
3	Start preparing the Article 5 Reports for River Basins	After 2013	River Basin Protection Action Plans (RBPAP) which are being prepared by DGWM under the MOFWA will have been finalized by 2013 and will set the basis for Article 5 reports
4	Start preparing the river basin management Plans	After 2014	Preparation of river basin management plans are directly linked with the finalization of Article 5 reports and RBPAPs.
5	Start of Implementation of river basin management plans	After 2015	2015 is in line with the start of the second river basin management plans of the present EU Member States. River Basin Protection Action

			Plans(RBPAP) have been prepared according to the River Basin Management Plan approach. Some of RBPAPs have been prepared and implemented already. Rest of them will have been prepared and implemented. Furthermore RBPAPs will be revised in the context of WFD and turned into River Basin Management Plans after 2015.
6	Achievement of “good water status” unless derogation is required because of technical reasons and disproportionate costs	2027	Year of achievement of good water status depends on the actual challenges in the basins.

### 3. Description of the project

#### 3.1 Background and justification:

The overall time frame for the implementation of the Water Framework Directive is derived from the Turkish strategy document for the Environment acquis of the European Union. It further stipulates that the river basin management plans be preceded by River Basin Protection Action Plans prepared and the RBPAPs converted into RBMPs after 2014 by the Ministry of Forestry and Water Affairs. The advantage of this process is that high priority measures, such as investments in wastewater treatment, can be implemented early on and in parallel to the river basin management planning process. These plans also note the requirements not only for river basin management plans that have been through a drafting, consultation and assessment stage, but also of precursor documents such as a Monitoring Plan in accordance with the WFD requirements, a Characterisation Report (Water Framework Directive Art. 5), and an ‘external communications strategy’, ‘summary of significant water management issues’ and ‘river basin management plan’.

Turkey has 25 river basins and over 120 natural lakes. Consumable ground and surface water potential of Turkey is 112 billion m<sup>3</sup>/year. Turkey is not a country rich in water resources and it is anticipated to be a water-stressed country by 2030. Most of Turkey is situated in a semi-arid region. Precipitation is limited to 5 to 6 months per year. Surface water pollution is a serious problem in Turkey. Domestic, industrial and agricultural pollution threatens the quality of surface waters. Thus, there is a need to protect the limited amount of water against pollution and it would only be possible by establishing an efficient water quality monitoring system.

Turkey has developed its water resources policy taking into consideration the present and future water needs for its growing population, developments at global levels as well as the ongoing EU accession process. Priority has been given to policies and plans to fully utilize Turkey’s water potential in an efficient manner through necessary measures and projects. The focus has been on securing the quantity and the protection of the quality of water resources.

In order to achieve the main targets conducive to protect water resources for both the present and future generations, it is necessary to reach a series of interim targets that take into consideration:

- human health and environmental objectives,
- economic and social progress that can be attained only by the efficient, reasonable and equitable use of water.

The Ministry of Forestry and Water Affairs is responsible for the harmonization of national water legislation with the EU legislation and for its implementation. Some studies are conducted in order to reduce surface waters pollution within the coordination of MOFWA with contribution of relevant organizations and institutions taking in to consideration the relevant European Union Directives as appropriate.

From 2007 until 2010, the EU twinning project “Capacity building support to the water sector in Turkey” has been executed. This project has prepared a Draft River Basin Management Plan for the Büyük Menderes River Basin. In this project proposal, it is aimed at updating this draft RBMP for the Büyük Menderes River Basin, and to make three more RBMPs for a transboundary river basin and a closed (endorheic) river basin. (Maritza/Ergene, Konya, Büyük Menderes, Susurluk River Basins). It will be ensured throughout the Twinning Project and the Technical Assistance Project on the Conversion of River Basin Protection Action

Plans into River Basin Management Plans that no duplications take place between the former projects and the actual one.

For the goals of this project, the Ministry is highly aware of the importance of a healthy cooperation with the universities in the basins, The Scientific and Technological Research Council of Turkey (TUBITAK) and related NGOs for more feasible and reliable RBMPs.

The overall timeframe for the implementation of the Water Framework Directive is derived from the Turkish strategy document for the Environment acquis of the European Union. This strategy foresees achieving good water status by 2027 and further stipulates that the river basin management plans be preceded by River Basin Protection Action Plans prepared by the Ministry of Forestry and Water Affairs.

The Water Framework Directive that intends to reach good water quality stipulates that River Basin Management Plans be prepared for each river basin. There are 25 river basins in Turkey. The preparation of the River Basin Management Plan requires a prolonged period of data collection, interpretation, planning and stakeholders involvement. In order not to lose momentum, priority measures to improve water quality are determined through River Basin Protection Action Plans. These plans can be prepared in a shorter period and form a forerunner to the more comprehensive River Basin Management Plans. The River Basin Protection Action Plans form a precursor to the River Basin Management Plan and help start the implementation of priority measures.

Until now, River Basin Protection Action Plans (RBPAP) have been completed for 4 river basins and these plans are being controlled regularly. Furthermore, river basin protection action plan studies are continuing for 13 basins and the rest of the basins are planned to be completed until the end of 2011. These plans are discussed with all aspects of the basin, also wastewater treatment plants are planned according to these plans. Under the framework of WFD, the first draft River Basin Management Plan (RBMP) of Büyük Menderes River Basin has been prepared. Completed RBPAPs are planned to be converted into RBMP in order for closing the Chapter on Environment.

River basin management plans differ from the River Basin Protection Action Plans in their broader consideration of biological issues, as well as hydro-morphological and chemical issues. RBMPs consider classification, objective setting and economic analysis and are built from a thorough understanding of communication processes, pressures and impacts, and monitoring data. However, the early development of River Basin Protection Action Plans ensures that action can begin on priority issues, such as sewage treatment works, in parallel to the river basin management planning. The purpose of River Basin Protection Action Plans is to improve water quality in river basins in line with the environmental objectives, to carry out necessary researches and realise sustainable and efficient planning, which are technologically more economical and have priority in short, medium and long terms, by taking water resources potential, existing water quality and point and diffuse pollution sources into consideration.

The content of the RBPAPs covers;

- Characterization of existing situation (identification of the characteristics of surface water and groundwater resources as well as pollution within the river basin; identification of pressures and impacts caused by urban, industrial, agricultural, economic, etc. activities in the river basin; examination in detail of identified pollution sources and loads; identification of water potential, utilisation purposes and environmental infrastructure status)

- Describing important pressures within the river basin and listing required precautions for reaching good water quality; preventing pollution; calculating environmental flows.
- Carrying out studies and planning with regard to short, medium and long term measures with the participation of all stakeholders in order to protect and improve river basins. Ensuring participation of all stakeholders to the process.

The aims of proposing such a project are as follows:

- Legal Gap analysis and new legislations
- Capacity building on the conversion of RBPAP into RBMP.
- Gap analysis of the RBPAP and RBMP.
- Conversion of the pilot basins' RBPAP into RBMP.
- Revision of the Implementation Plan produced by the project on “Capacity Building Support to the Water Sector in Turkey” regarding the requirements of the gap analysis results.

Following are some characteristics of the Turkish water sector. Turkey has many different climate zones. The previous twinning project on river basin management planning focused on a basin in the Mediterranean area. Conversion of RBPAP into RBMP will take place in other climate zones and therefore a new twinning project is necessary as the human resources at the Ministry of Forestry and Water Affairs are not available at this moment to do that without any support.

- There is an upcoming twinning project on monitoring in the framework of the Water Framework Directive. This project is about to finish in 2013. This twinning will produce a monitoring system and many more data for the chemical and biological assessment. These results that can be used for the river basin management plans that are to be based on the RBPAP.
- In 2015 Turkey will have progressed enormously in connecting households and industries to sewage treatment plants. That would mean that the chemical and biological status of Turkish river basin situation in 2015 will be very much different from the situation in 2010. Therefore a new twinning and a technical assistance are required.
- Turkey can use several instruments to achieve the aims of its water resources policy, for example stakeholders' involvement (communication), the issuing of permits and the use of financial instruments. Especially the use of financial instruments like taxes can be of added value to achieve the polluter pays principle and to raise funds for investments.
- Turkey has an increasing scarcity of water resources, challenging water pollution and financial resources allocated to the water sector are limited. Economic analysis and expertise is increasingly called for in supporting water management and policy decisions.

Article 14 of the Water Framework Directive and the Common Implementation Strategy Guidance Document No 8 on Public Participation stipulates some provisions for the Member States to encourage the active involvement of all interested parties in the implementation of



the Directive and development of river basin management plans. Also, Member States will inform and consult the public, including users, in particular for:

- The timetable and work programme for the production of river basin management plans and the role of consultation;
- The overview of the significant water management issues in the river basin;
- The draft river basin management plan

Thus, stakeholder consultation activities will take place in various stages of the project. In the twinning project “Capacity Building Support to the Water Sector in Turkey” a national implementation plan for the Water Framework Directive has been made, where actions on the central level and on the level of the river basins are identified.

### **3.2 Assessment of project impact, catalytic effect, sustainability and cross border impact (where applicable)**

This project meeting the requirements of WFD will support the activities of Barcelona and Bucharest Conventions.

Other impacts are listed below:

This Project,

- will enhance the harmonization of environmental Acquis Communautaire, especially for WFD with regard to surface waters, groundwater make the decision making and the implementation more accelerated and more effective;
- will be a good instrument for the preparation of plans and programs for the National Policy on waters;
- will make the supervision system more effective;
- will be a good example for Turkey's other basins and also neighbouring countries in terms of the objectives of integrated and holistic approach;
- will enable better environmental management, and to protect environment,
- will enable cross-border cooperation in terms of integrated river basin management planning by way of sharing experience with Bulgarian and Greek experts in the trans-boundary river basin to be worked out as a pilot.

The project will prepare **four River Basin Management Plans** (Maritza/Ergene, Konya, Büyük Menderes, Susurluk River Basin) in accordance with the Water Framework Directive. These plans, *inter alia*, will enable the Beneficiary and stakeholders to plan the necessary investments and capacity building training. The staff from the other basins will also be trained during the making of RBMPs for the pilot basins in the project.

The investments and capacity building training will lead to sustainable capacity in the Ministry of Forestry and Water Affairs in order to execute the all the activities to be undertaken for the drafting of River Basin Management Plans for all basins in Turkey in accordance with the Water Framework Directive.

Furthermore, the project will provide a concrete ground for sustainable management of local administration and especially of basin protection unions. Especially with the pilot implementation and the trainings planned to be given within the scope of this project, awareness of the local authorities will be strengthened.

Through the project, information sharing will be possible with the neighbouring countries by way of establishing common working groups, as the Maritza/Ergene basin is one of the pilot basins for which a River Basin Management Plan will be prepared.

### **3.3 Results and measurable indicators:**

#### **Results**

#### **Measurable Indicators**

1 Legal and institutional amendments and proposals finalised that eliminate gaps in the implementation of the acquis; the EU Acquis transposed; technical tools and data collection and analysis system in place to fully implement the acquis

1.1 Legal and gap analysis report by updating of the legal and institutional gap analysis of the Twinning Project TR06 IB EN 01, in view of the legislative amendments and new legislation in Turkey and in the EU

1.2 Report drafted on the requirements of the river basin management plans in accordance with the Water Framework Directive

1.3 Draft document prepared on the Framework Water Protection Law, for the transposition of the WFD into Turkish legislation

1.4 1 Study visit report regarding different legal and institutional structures for the making of River Basin Management Plans

1.5 1 Report on the analysis of gaps between RBPAPs and RBMPs

1.6 1 Report on proposals for filling in the gaps between RBPAPs and RBMPs, including an action plan

1.7 10 workshop reports on the contents of WFD and the requirements of all daughter directives

1.8 Draft text of the Turkish EQS By-law

1.9 Draft legal text for the economic analysis part of the WFD for transposition into Turkish legislation

2 Fully operational monitoring system in line with the acquis is in place

2.1 GIS map of delineated water bodies and typologies in the pilot basins

2.2 Report on the pressures and impact analyses in the pilot basins

2.3 Report on the data requirements analysis

2.4 4 monitoring programmes for the pilot basins prepared

2.5 Collected data sets on water use, population equivalent and waste water production; establishing a decision support system for the programme of measures by reflecting Turkey specific conditions for the pilot basins

2.6 Results of monitoring data for 3 basins in accordance with WFD

2.7 Study visit report on the best practices in the making of Characterization Reports in Member States

2.8 Fully operational data management system

2.9 Collected data sets on protected areas, register of protected areas

2.10 GIS map of defined agglomerations in the pilot basins

2.11 All required GIS maps for RBMP

2.12 Collected data sets on economic data

3 River Basin Management Plans completed for Maritza-Ergene, Konya, Büyük Menderes and Susurluk basins

3.1 20 Training workshops on the conversion of RBPAPs into RBMPs

3.2 Evaluation report of the collected data in view of the RBMP requirements

3.3 Report on the execution of the National Implementation Plan for WFD in Turkey

3.4 Report on the actual water management situation in Turkey

3.5 Report including proposals for future steps in water management in Turkey

3.6 Report on the tasks and responsibilities of different management levels for RBMPs

3.7 Report on the analysis of required financial and human resources, including data needs assessment

3.8 Characterization Reports for 4 pilot basins

3.9 Defined reference conditions, EQSs and threshold values for the pilot basins

3.10 GIS map and report on the statuses of all surface water and groundwater bodies in the pilot basins

3.11 4 significant water management issues reports

3.12 Economic analysis chapter of the RBMPs ready

3.13 Programme or Measures chapter of the RBMPs ready

3.14 Report on effectiveness of basic measures, and supplementary and additional measures

3.15 Chapters of RBMPs on the register of related programmes and plans, the list of competent authorities and the contact lists for RBMPs ready

3.16 Study visit report on the best practices in the making of RBMPs in Member States

3.17 Final version of RBMPs, and the Final version of the National Implementation Plan for the Water Framework Directive

3.18 Guidelines and manuals for each chapter of RBMPs

3.19 3 stakeholder consultation events in each pilot basin

### **3.4 Activities:**

One twinning contract and one technical assistance contract will be deployed within the project. Co-financing source for all these activities is budget of Ministry of Forestry and Water Affairs.

The project will have to be divided into two components, one twinning contract and one technical assistance contract.

Below is a summary of the links between the various activities foreseen, and their relation with results and indicators.

### **Result 1 Legal and institutional amendments and proposals finalised that eliminate gaps in the implementation of the acquis; the EU Acquis transposed; technical tools and data collection and analysis system in place to fully implement the acquis**

Activity 1.1 Updating of the legal and institutional gap analysis of the Twinning Project TR06 IB EN 01, in view of the legislative amendments and new legislation in Turkey and in the EU

OVI (Objectively Verifiable Indicators): Legal and gap analysis report by updating of the legal and institutional gap analysis of the Twinning Project TR06 IB EN 01, in view of the legislative amendments and new legislation in Turkey and in the EU

Activity 1.2 General overview of the requirements to river basin management plans of the Water Framework Directive

OVI: Report on the requirements of the river basin management plans in accordance with the Water Framework Directive

Activity 1.3 Preparation of the draft Framework Water Protection Law that will meet the legal transposition of WFD by taking into account institutional tasks and responsibilities

OVI: Draft text of the Framework Water Protection Law, for the transposition of the WFD into Turkish legislation

Activity 1.4 Study visit to find out different legal and institutional structures for the making of River Basin Management Plans

OVI: Study visit report regarding different legal and institutional structures for the making of River Basin Management Plans

Activity 1.5 Training on the WFD contents and requirements of all daughter directives

OVI: 10 workshop reports on the contents of WFD and the requirements of all daughter directives

Activity 1.6 Transposition of the EQS Directive into Turkish legislation

OVI: Draft text of the Turkish EQS By-law

Activity 1.7 Legal text obtained by transposing the economic analysis part of the WFD in to Turkish legislation

OVI: Draft legal text for the economic analysis part of the WFD for transposition into Turkish legislation

Activity 1.8 Analysis of the present river basin protection action plans, in view of the WFD requirements and reporting for the trainings in the Twinning Activity 2.1

OVI: Report on the analysis of gaps between RBPAPs and RBMPs

Activity 1.9 Options on how to bridge the gap between RBPAP and river basin management plans and reporting for the trainings in the Twinning

OVI: Report on proposals for filling in the gaps between RBPAPs and RBMPs, including an action plan

## **2 Fully operational monitoring system in line with the acquis is in place**

Activity 2.1 Delineation of the water bodies (both surface waters and ground waters) and the typologies thereof in the pilot basins

OVI: GIS map of delineated water bodies and typologies in the pilot basins

Activity 2.2 Analysing pressures and impacts

OVI: Report on the pressures and impact analyses in the pilot basins

Activity 2.3 Analysis of data requirements for making RBMPs (biological, chemical and hydro-morphological in accordance with WFD)

OVI: Report on the data requirements analysis

Activity 2.4 Establishment and update of monitoring programmes for the pilot basins, both for surface waters and ground waters, Revision of monitoring points drafted in view of the pressures and impacts analysis

OVI: 4 monitoring programmes for the pilot basins

Activity 2.5 Collecting data on water use, population equivalent and waste water production; establishing a decision support system for the programme of measures by reflecting Turkey specific conditions

OVI: Collected data sets on water use, population equivalent and waste water production; establishing a decision support system for the programme of measures by reflecting Turkey specific conditions for the pilot basins

Activity 2.6 Monitoring in accordance with WFD (biological, chemical, hydro-morphological), including sampling and analysis (3 basins -Susurluk, Konya, Meriç-Ergene -- - 12 times a year, approximately 40 monitoring points)

OVI: Results of monitoring data for 3 basins in accordance with WFD

Activity 2.7 Study visit on the best practices in the making of Characterization Reports in Member States for 20 people

OVI: Study visit report on the best practices in the making of Characterization Reports in Member States

Activity 2.8 Development of software (data management system) and the operation of the system

OVI: Fully operational data management system, for the storage, process and analysis of collected monitoring data, including drafting of knowledge rules for Turkish specific conditions, including a system for calculating the cost-effectiveness of the measures

Activity 2.9 Collecting data on protected areas, definition of protected areas in the pilot basins in view of the related EU Directives

OVI: Collected data sets on protected areas, register of protected areas

Activity 2.10 Definition of agglomerations in the pilot basins in accordance with the Urban Waste Water Treatment Directive (UWWTD)

OVI: GIS map of defined agglomerations in the pilot basins

Activity 2.11 Making of all required GIS maps, by using water quality modelling

OVI: All required GIS maps for RBMP

Activity 2.12 Collection of economic data (water uses, pricing, cost-recovery, consumption amounts, waste water amounts etc.) by also using water quality and quantity modelling

OVI: Collected data sets on economic data

**3 River Basin Management Plans completed for Maritza-Ergene, Konya, Büyük Menderes and Susurluk basins**



Activity 3.1 Training on the conversion of RBPAPs into RBMPs. In this activity, the central and provincial staff, the staff from laboratories, the central, regional and provincial directorates of the other related institutions, and experts from Bulgaria and Greece from the transboundary pilot river basin will be involved in the trainings. There will be workshops, trainings sessions, field visits held

OVI: 14 Training workshops on the conversion of RBPAPs into RBMPs

Activity 3.2 Evaluation of all collected data from the Twinning Project and the Technical Assistance Project in view of the Characterisation Report, the Significant Water Management Issues Report and the River Basin Management Plan

OVI: Evaluation report of the collected data in view of the RBMP requirements

Activity 3.3 Analysis of the state of the art of the execution of the identified actions in the National Implementation Plan (NIP) for WFD (gap analysis of what has been planned and what has been carried out)

OVI: Report on the execution of the National Implementation Plan for WFD in Turkey

Activity 3.4 Analysis of the actual water management situation in Turkey (that may lead to an update of the NIP)

OVI: Report on the actual water management situation in Turkey

Activity 3.5 Analysis of the new actions to be executed

OVI: Report including proposals for future steps in water management in Turkey

Activity 3.6 Review of actions that need to be carried out, on the level of the river basins and on the central level in Ankara

OVI: Report on the tasks and responsibilities of different management levels for RBMPs

Activity 3.7 Review of required financial and human resources, including data need assessment

OVI: Report on the analysis of required financial and human resources, including data needs assessment

Activity 3.8 Drafting of the Characterisation Report (Article 5 Report) including climate change scenarios

OVI: Characterization Reports for 4 pilot basins

Activity 3.9 Definition of reference conditions and Environmental Objectives (EQSs and EQRs) for surface waters and quality and quantity standards, including threshold values for ground waters in the pilot basins

OVI: Defined reference conditions, EQSs and threshold values for the pilot basins

Activity 3.10 Definition of status for all surface water bodies and groundwater bodies in the pilot basins

OVI: GIS map and report on the statuses of all surface water and groundwater bodies in the pilot basins

Activity 3.11 Making of the Significant Water Management Issues Report

OVI: 4 significant water management issues reports

Activity 3.12 Carrying out the economic analysis of water use by taking into account Articles 5, 9 and 11 of WFD

OVI: Economic analysis chapter of the RBMPs ready

Activity 3.13 Making out the Programme of Measures, including cost-effectiveness analyses of the measures

OVI: Programme or Measures chapter of the RBMPs ready

Activity 3.14 Modelling to assess effectiveness of the basic measures and define the supplementary and additional measures

OVI: Report on effectiveness of basic measures, and supplementary and additional measures

Activity 3.15 Making out the register of related programmes and plans, the list of Competent Authorities and the contact list for the RBMPs

OVI: Chapters of RBMPs on the register of related programmes and plans, the list of competent authorities and the contact lists for RBMPs ready

Activity 3.16 Study visit on the best practices in the making of RBMPs in Member States for 20 people

OVI: Study visit report on the best practices in the making of RBMPs in Member States

Activity 3.17 Making out River Basin Management Plans for the pilot basins, and finalizing the National Implementation Plan for the Water Framework Directive

OVI: Final version of RBMPs, and the Final version of the National Implementation Plan for the Water Framework Directive

Activity 3.18 Guidelines and manuals for the making of RBMPs clearly defining all tasks and responsibilities for the other basins in Turkey in a step-wise approach

OVI: Guidelines and manuals for each chapter of RBMPs

Activity 3.19 Stakeholder consultation in the pilot basins for the Characterisation Report, Significant Water Management Issues, programme of Measures, RBMP

OVI: 3 stakeholder consultation events in each pilot basin

### **3.5 Conditionality and sequencing:**

There are no conditionalities for this project.

Sequencing: The Twinning Project and the Technical Assistance Project is planned to start around the same time. It is planned to prepare the ToRs by SEI. The activities of both components are planned to run in parallel for 12 months, throughout the whole duration of the Twinning Project. The Technical Assistance project will continue 36 months; thus 24 more months after the completion of the Twinning Project.

Carrying out in parallel the twinning project and the technical assistance project will safeguard good results of the two projects. The Twinning project will benefit from the results of the TA and the TA will benefit from the results of the twinning project.

#### **Linked activities**

##### **Capacity Building on Water Quality Monitoring TR09 IB EN 03**

In 2011 the EU funded twinning project on water quality monitoring starts. The aim of the project is capacity building in terms of the monitoring requirements of the water Framework Directive. Within the project a legal and institutional gap analysis will be carried out and a monitoring plan for some river basins will be set up. Besides, a national plan to align the Turkish monitoring situation with the EU acquis will be drafted. The Netherlands, France and Spain will carry out the project and if necessary and possible, experts from other EU member states will be involved. The project will be finished in 2013.

##### **G2G Project “Training of Trainers in the Field of Water and Environment Acquis in Turkey”**

The purpose of the project "Training of trainers in the field of the Water and Environment acquis in Turkey" is to enable the Turkish Government, to train agency staff and stakeholders in a timely fashion in the process of implementation of EU Water Quality Sector Directives. At the end of the project period, the Turkish Government will be able to train target groups in both content and implementation of the key EU Water Quality Sector Directives. Moreover, a Training Management Plan that defines an overall strategy and a planning for building the required national capacity to implement key EU Water Quality Directives will be made. The project is about to be completed, and around 40 people will be certified as trainers. During the project, a high level training has been provided to around 1000 high level managers in 20 basins.

##### **Capacity building support to the water sector in Turkey TR06-IB-EN-01**

The purpose of the project is to assist Turkey in the water management in line with the EU water legislation, in particular the Water Framework Directive (WFD) 2000/60/EC of 23 October 2000, Urban Wastewater Treatment Directive (UWWTD) 91/271/EEC of 21 May 1991 and Dangerous Substances Directive (DSD) 76/464/EEC of 4 May 1976 and daughter directives in order to enable the full implementation of the EU water acquis by the date of Turkey's accession to the EU.

The results are ordered by the five components of the project. These components are:

Component 0: Project kick off and closing event

Component 1: Legal and institutional analysis of the three directives

Component 2: Implementation plans for the Water Framework Directive

Component 3: Pilot implementation in the Büyük Menderes

Component 4: Internal and external communication plan

Therefore, further efforts are needed to transpose and implement the Acquis, including a new framework law on the management of water resources in line with the WFD. The project will contribute to Turkey for meeting the European Union environmental policy. In the EU twinning project “Capacity building support to the water sector in Turkey” the present monitoring situation in the basin of the Büyük Menderes River and recommendations were made on how to upgrade this regional monitoring system to the standards of the Water Framework Directive.

A legal and institutional gap analysis report has been prepared during the project. A draft River Basin Management Plan for the Büyük Menderes Basin, and draft National Implementation Plans for the Water Framework Directive and the Dangerous Substances Directive were prepared.

#### **Implementation of the Water Framework Directive in Turkey (MATO1/TR/9/3):**

The aim of the Project was to support Turkey with the implementation of the WFD. In this project legal and administrative analysis was performed. However, the final report of the project which is under consideration still needs major revisions.

In “Implementation of the Water Framework Directive in Turkey” project supported by the MATRA pre-accession program of Netherlands, a report on the legal and institutional developments required to meet EU legal requirements in the field of water management in Turkey was prepared. It is still under consideration. During the project, guidances and the methodology for RBMPs have been prepared.

#### **Technical Assistance for Environmental Heavy-Cost Investment Planning For Turkey (Tr/0203.03/001)**

The specific objective is to enable the Turkish authorities to meet Turkey’s environmental infrastructure requirements for EU accession by identifying and prioritizing project in the priority environmental sectors: water, waste, air, industrial pollution control (IPC) and identify and catalogue the existing financial instruments available for environmental investments and their characteristics. A directive specific implementation plan has been drafted for the directives aligned within the water sector such as UWWTD and DSD.

#### **Implementation of Nitrate Directive in Turkey TR-07/EN/01**

Effective monitoring on surface and ground water for agricultural nitrate pollution obtained by developing network system and vulnerable areas determined.

Institutional and technical capacity of MARA has been strengthened and farmer awareness and knowledge has been increased in pilot areas and information and knowledge share has been developed by MARA to MoEF. In this project a monitoring scheme for nitrate is developed.

It is mandatory that every country, liable party to Barcelona and Bucharest Conventions, will execute the obligations of Strategic Action Plan with the prepared National Action Plans. Monitoring the Sea Areas is executed by the Ministry of Environment and Forestry in Mediterranean and Black Sea regions under the framework of the Conventions with a view of the land-based pollution sources. However, in Marmara region there is not any proper monitoring activity yet. But a pollution monitoring programme will be executed.

### **Pollutant Release and Transfer Register (PRTR) Project**

The activity dealing with the development of a public tracking and reporting systems of pollutant, known generically as Pollutant Release and Transfer Register (PRTR) is also part of the activities of the Strategic Action Programme (SAP). A PRTR system for selected chemicals and industries in İzmir ( PETKİM Aliğa), Turkey has been established at the end of 2007, as a model for similar activities in other Mediterranean countries. Besides, a new proposal to UNEP/MAP has been made to disseminate the system through the Mediterranean provinces in Turkey. An example reporting system has been established during the project.

In the Twinning Project on “Capacity Building Support to the Water Sector in Turkey” (TR06 IB EN 01), a legal and institutional gap analysis had been carried out. In this project proposed, the legal gap analysis of the Project TR06 IB EN 01 will be updated in view of the legislative amendments and new legislation in Turkey and in the EU. The directive 2008/105 on “Environmental Quality Standards (EQS)” will be transposed into Turkish legislation during the project.

In order to determine the necessary works still to be undertaken for the making of the RBMPs taking the RBPAPs as a starting point, gap analyses of the RBPAPs and the RBMPs will be carried out.

By using the information of the present RBPAPs, these plans will be converted into WFD proof RBMPs. For every RBPAP the following activities will be carried out: (Maritza/Ergene, Büyük Menderes River Basin, Konya Endorheic Basin, Susurluk River Basin).

Stakeholder consultation and the revision of the National Implementation Plan for WFD produced by the project on “Capacity Building Support to the Water Sector in Turkey” shall be ensured.

## **3.7 Lessons learned**

### **Capacity building support to the water sector in Turkey TR06-IB-EN-01**

The purpose of the project is to assist Turkey in the water management in line with the EU water legislation, in particular the Water Framework Directive (WFD) 2000/60/EC of 23 October 2000, Urban Wastewater Treatment Directive (UWWTD) 91/271/EEC of 21 May 1991 and Dangerous Substances Directive (DSD) 76/464/EEC of 4 May 1976 and daughter directives in order to enable the full implementation of the EU water acquis by the date of Turkey’s accession to the EU.

The approach to establish a river basin management plan was gathered with this project by current monitoring data. However, data gap has been realized for a successful river basin management. It has been understood that a strong institutional cooperation is a need for an efficient monitoring system in order to assess the statuses of water bodies. Therefore, a project on capacity building for water quality monitoring has been proposed. The results of this project

on monitoring will provide significant input for the project on the conversion of River Basin Protection Action Plans into River Basin Management Plans.

### **Implementation of the Water Framework Directive in Turkey (MATO1/TR/9/3):**

The project called as “Implementation of the Water Framework Directive in Turkey (MATO1/TR/9/3)” is the first project related with EU Water Framework Directive 2000/60/EC. In the project, a legal and institutional analysis report, a draft river basin management plan for a pilot basin, a handbook for the implementation of WFD, and some practical guidance for some basic topics included in WFD such as characterization, environmental objectives, etc. were produced. But, because of the limitations both in time and budget, the project could not serve the expected results to the beneficiaries for all parts of the Directive in detail. The above mentioned MATRA Project is a good introductory activity in understanding the WFD phenomenon during the accession period of Turkey.

All related stakeholders in the water sector in Turkey became aware of the EU implementation in the water sector and WFD.

### **Technical Assistance for Environmental Heavy-Cost Investment Planning For Turkey (Tr/0203.03/001)**

The EHCIP project has three main components, viz.:

The strategic planning component

The investment packages component

The capacity building component

The strategic planning component is intended to develop strategies / plans at three different levels, viz.: macro level, sectoral level and (EU) directive level while defining the priorities in the sector.

Directive Specific Investment Plan for the Council Directive on Urban Wastewater Treatment; The plan describes the current situation in the wastewater treatment sector, specifies the implementation of necessary technical measures, identifies technical gaps, makes cost assessments and identifies possible financial sources to close the gaps and presents recommendations on the investment schedule and transition period for the implementation of the directive.

The investment packages component, on the other hand, is limited with identifying the demand and aimed to select some (six) top priority projects in Turkey and developing these into investment packages. A methodology developed for the prioritization of the projects proposed.

The capacity building component, analyzing programme has been arranged.

### **Pollutant Release and Transfer Register (PRTR) Project**

The activity dealing with the development of a public tracking and reporting systems of pollutant, known generically as Pollutant Release and Transfer Register (PRTR) is also part of the activities of the Strategic Action Programme (SAP). A PRTR system for selected chemicals and industries in İzmir (PETKİM Aliğa), Turkey has been established at the end of 2007, as a model for similar activities in other Mediterranean countries. Besides, a new

proposal to UNEP/MAP has been made to disseminate the system through the Mediterranean provinces in Turkey.

#### 4. Indicative Budget

			TOTAL EXP.RE		SOURCES OF FUNDING									
					TOTAL PUBLIC EXP.RE	IPA COMMUNITY CONTRIBUTION	NATIONAL PUBLIC CONTRIBUTION						PRIVATE CONTRIBUTION	
ACTIVITIES	IB (1)	INV (1)	EUR (a)=(b)+(e)	EUR (b)=(c)+(d)	EUR (c)	% (2)	Total EUR (d)=(x)+(y)+(z)	% (2)	Central EUR (x)	Regional/ Local EUR (y)	IFIs EUR (z)	EUR (e)	% (3)	
Activity														
*Twinning contract	X	–	1.300000€	1.300000€	1235000 €	95	65000	5	65000 €			–	–	
***TA contract	X	–	5300000 €	5300000 €	4770000 €	90	530000	10	530000			–	–	
.....														
TOTAL IB			6 600 000 €	6 600 000€	6.005000€		595 000€		595 000€					
TOTAL PROJECT			6 600 000€	6 600 000€	6.005000€		595 000 €		595 000 €					

(1) In the Activity row use "X" to identify whether IB or INV

(2) Expressed in % of the **Public** Expenditure (column (b))

(3) Expressed in % of the **Total** Expenditure (column (a))



## 5. Indicative Implementation Schedule (periods broken down per quarter)

Contracts	Start of Tendering	Signature of contract	Project Completion
Twinning Contract (12 months)	QR4 2012	QR3 2013	QR2 2014
TA Contract (36 months)	QR3 2012	QR2 2013	QR1 2016

"The Turkish authorities commit themselves to provide national co-financing according to the above provisions. The NAO will verify that co-financing has been provided in line with the above provisions before submitting requests for funds and final declarations adjusting payment requests to the above ratio as necessary."

"For Twinning contracts joint co-financing will be provided to cover 5% of the costs of the Twinning contract. Additional parallel co-financing will be provided in order to cover costs of activities not eligible for IPA support in line with the Twinning Manual."

"In the context of beneficiary staff participating in missions outside of Turkey paid for under a contract, the maximum amounts eligible for accommodation costs and daily allowances ("per diems") are the official rates provided for by EuropeAid for the destination country (see website for the latest rate). Provided the total cost of daily allowance and accommodation charged to the contract remains below these maximum rates, the applicable Turkish rules and regulations for per diems shall be applied when reimbursing these costs for public servants from the beneficiary institutions. Where a contract foresees the reimbursement of such expenses for Turkish public servants and other beneficiaries of IPA projects during missions inside of Turkey, the maximum costs reimbursed under the contract will be those provided for domestic missions under the applicable Turkish legislation provided that they are subject to the same ceiling for maximum rates. This provision cannot be construed and applied in contradiction with the IPA Framework Agreement and in particular the IPA Implementing Regulation."

## 6. Cross cutting issues (where applicable)

### 6.1 Equal Opportunity

Participation in this project will be open to both males and females involved in the sector. Records of professionals' participation in all project related activities will reflect this and will be kept with the project documentation.

### 6.2 Environment

The Project itself is focused on the achievement of long-term environmental improvements in Turkey. The Project itself will probably not have any adverse environmental impacts, other than those due to normal activities (e.g. transport). Nevertheless, as an example to others and as a matter of principle, the environmental impact of activities must be minimised as far as possible, e.g. by conserving paper.

### **6.3 Minorities and vulnerable groups**

According to the Turkish Constitutional System, the word minority encompasses only groups of persons defined and recognized as such on the basis of multilateral or bilateral instruments to which Turkey is a party. This project has no negative impact on minority and vulnerable groups. Besides; the disabled people shall be provided the same level of access to the project as all other participants, via a sensitive design of activities

### **6.4 Civil Society**

All related ambitious NGOs such as Basin Protection Unions, local NGOs, REC Turkey and Universities, etc. shall be informed of the activities and results of this project and shall be provided the participation to the meetings and workshops. Public Participation and consultation procedure will be considered by the project according to WFD art.14

## ANNEXES

- 1- Log frame in Standard Format
- 2- Amounts contracted and Disbursed per Quarter over the full duration of Programme
- 3- Description of Institutional Framework

*(incl. composition of the project Steering Committee and sectoral working group)*

- 4 - Reference to laws, regulations and strategic documents:  
Reference list of relevant laws and regulations  
Reference to AP /NPAA / EP / SAA/ Progress report  
Reference to MIPD  
Reference to National Development Plan  
Reference to sector strategies and national / sector investment plans

- 5- Details per EU funded contract (\*) where applicable:

For TA contracts: outputs expected from the contractor and indicative budget breakdown

For twinning contracts: main components and activities foreseen, indicative budget breakdown, profile of the MS project leader, resident twinning advisor and key short term experts as well as name and position of the project leader of the BC

For grants schemes: components of the scheme, eligible target group and activities (in case of direct grants, justification for selection of grant beneficiary without call for proposal)

For supply contracts: reference to feasibility study as well as indicative list of items, cost estimate, intended beneficiary, indication on how detailed technical specifications will be prepared, provisions for maintenance + section to be filled in on investment criteria (\*\*)

For works contracts: reference to feasibility study for the construction works, identification of the site, indicative list of works to be completed and cost estimate, indication on how technical specifications will be prepared, provisions for maintenance as well as a section on investment criteria (\*\*); account of services to be carried out for the service part of the contract

(\*) non standard aspects (in case of derogation to PRAG) also to be specified

(\*\*) section on investment criteria (applicable to all supply and works contracts):

- Rate of return
- Co-financing
- compliance with state aids provisions
- Ownership of assets (current and after project completion)

**ANNEX 1: Logical framework matrix in standard format**

LOGFRAME PLANNING MATRIX FOR Project Fiche		Programme 'Conversion of River Basin Action Plans into River Basin Management Plans'	
		Contracting period expires: 2 years after the signature of the Financing Agreement	Disbursement period expires: 1 year after the end date for the execution of contracts
		Total budget : 6 600 000 €	IPA budget: 5 990 000 €
<b>Overall objective</b>	<b>Objectively verifiable indicators</b>	<b>Sources of Verification</b>	
To achieve a good environmental status for waters	Recognition by EC that considerable progress is being made in this area at the end of 2015.	<ul style="list-style-type: none"> <li>• EC Regular Reports</li> <li>• State of Environment reports</li> <li>• Turkish national statistics</li>   <li>• EEA Regular Reports</li> </ul>	
<b>Project purpose</b>	<b>Objectively verifiable indicators</b>	<b>Sources of Verification</b>	<b>Assumptions</b>
Strengthening Turkey's capacity to implement the EU Water Framework Directive (2000/60/EC) and the related daughter directives especially for the preparation of River Basin Management Plans in accordance with the Water Framework Directive by way of converting River	River basin management plans in operation by the end of 2016 for pilot basins in Turkey in accordance with the Water Framework Directive requirements, depending on the completion of the project	EC Regular Reports Interim Evaluation Reports Annual Activity Reports of MoFWA	<ul style="list-style-type: none"> <li>• Available and accurate data</li> </ul>

Basin Protection Action Plans (BPAPs) into River Basin Management Plans (RBMPs) for four river basins in Turkey			
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<b>Results</b>	<b>Objectively Verifiable Indicators</b>	<b>Sources of verification</b> <i>(same for all results)</i>	<b>Assumptions</b> <i>(same for all results)</i>
<p>1 Legal and institutional amendments and proposals finalised that eliminate gaps in the implementation of the acquis; the EU Acquis transposed; technical tools and data collection and analysis system in place to fully implement the acquis</p>	<p>1.1 Legal and gap analysis report by updating of the legal and institutional gap analysis of the Twinning Project TR06 IB EN 01, in view of the legislative amendments and new legislation in Turkey and in the EU</p>	<p>Quarterly report, mission reports, workshops, presentations</p> <p>Related Project Reports and Guidelines</p> <p>Report on the study tours, workshops</p> <p>RBMPs</p> <p>National Implementation Plan for the Water Framework Directive</p> <p>Project websites</p> <p>Furthermore;</p> <ul style="list-style-type: none"> <li>• Monthly Implementation Schedules for NPAA</li> <li>• Training Evaluation Reports</li> <li>• Signed Off Reports Submitted to EC as Output from Project</li> </ul>	<p>Availability and accuracy of data</p> <p>Relevant countries will have to be willing to host a study visit</p> <p>Appropriate weather conditions</p> <p>Sufficient stability of related ministerial staff at all levels</p>
	<p>1.2 Report drafted on the requirements</p>		

	of the river basin management plans in accordance with the Water Framework Directive
	1.3 Draft document prepared on the Framework Water Protection Law, for the transposition of the WFD into Turkish legislation
	1.4 1 Study visit report regarding different legal and institutional structures for the making of River Basin Management Plans
	1.5 1 Report on the analysis of gaps between RBPAPs and RBMPs
	1.6 1 Report on proposals for filling in the gaps between RBPAPs and RBMPs, including an action plan
	1.7 10 workshop reports on the contents of WFD and the requirements of all daughter directives
	1.8 Draft text of the Turkish EQS By-law
	1.9 Draft legal text for the economic analysis part of the WFD for transposition into Turkish legislation
2 Fully operational monitoring system in line	2.1 GIS map of delineated water bodies and typologies in the pilot basins

with the acquis is in place

2.2 Report on the pressures and impact analyses in the pilot basins
2.3 Report on the data requirements analysis
2.4 4 monitoring programmes for the pilot basins prepared
2.5 Collected data sets on water use, population equivalent and waste water production; establishing a decision support system for the programme of measures by reflecting Turkey specific conditions for the pilot basins
2.6 Results of monitoring data for 3 basins in accordance with WFD
2.7 Study visit report on the best practices in the making of Characterization Reports in Member States
2.8 Fully operational data management system
2.9 Collected data sets on protected areas, register of protected areas
2.10 GIS map of defined agglomerations in the pilot basins



	2.11 All required GIS maps for RBMP
	2.12 Collected data sets on economic data
3 River Basin Management Plans completed for Maritza-Ergene, Konya, Büyük Menderes and Susurluk basins	3.1 20 Training workshops on the conversion of RBPAPs into RBMPs
	3.2 Evaluation report of the collected data in view of the RBMP requirements
	3.3 Report on the execution of the National Implementation Plan for WFD in Turkey
	3.4 Report on the actual water management situation in Turkey
	3.5 Report including proposals for future steps in water management in Turkey
	3.6 Report on the tasks and responsibilities of different management levels for RBMPs
	3.7 Report on the analysis of required financial and human resources, including data needs assessment
	3.8 Characterization Reports for 4 pilot basins

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3.9 Defined reference conditions, EQSs and threshold values for the pilot basins
3.10 GIS map and report on the statuses of all surface water and groundwater bodies in the pilot basins
3.11 4 significant water management issues reports
3.12 Economic analysis chapter of the RBMPs ready
3.13 Programme or Measures chapter of the RBMPs ready
3.14 Report on effectiveness of basic measures, and supplementary and additional measures
3.15 Chapters of RBMPs on the register of related programmes and plans, the list of competent authorities and the contact lists for RBMPs ready
3.16 Study visit report on the best practices in the making of RBMPs in Member States
3.17 Final version of RBMPs, and the Final version of the National Implementation Plan for the Water

Framework Directive	
3.18 Guidelines and manuals for each chapter of RBMPs	
3.19 3 stakeholder consultation events in each pilot basin	

Activities	Means	Costs	Assumptions
<p><b>Result 1 Legal and institutional amendments and proposals finalised that eliminate gaps in the implementation of the acquis; the EU Acquis transposed; technical tools and data collection and analysis system in place to fully implement the acquis</b></p> <p>Activity 1.1 Updating of the legal and institutional gap analysis of the Twinning Project TR06 IB EN 01, in view of the legislative amendments and new legislation in Turkey and in the EU</p> <p>Activity 1.2 General overview of the requirements to river basin management plans of the Water Framework Directive</p> <p>Activity 1.3 Preparation of the draft Framework Water Protection Law that will meet the legal transposition of WFD by taking into account institutional tasks and responsibilities</p> <p>Activity 1.4 Study visit to find out different legal and institutional structures for the making of River Basin Management Plans</p> <p>Activity 1.5 Training on the WFD contents and requirements of all daughter directives</p>	<p>Twinning Contract</p> <p>Technical Assistance Contract</p> <p>Necessary staff, accommodation and other resources from MoEF, MARA and other stakeholder ministries and institutions</p> <p>Necessary staff, accommodation and other resources from local offices</p> <p>Organization and delivery of training including study tours</p> <p>Organization and facilitation of pilot projects</p>	<p>Twinning: 1.0 M EUR</p> <p>Technical Assistance: 5.6 M EUR</p>	<ul style="list-style-type: none"> <li>• Data, maps and other required information available in an adequate format and timely manner</li> <li>• Field visits possible</li> <li>• Study visits possible</li> </ul>

Activities	Means	Costs	Assumptions
<p>Activity 1.6 Transposition of the EQS Directive into Turkish legislation</p> <p>Activity 1.7 Legal text obtained by transposing the economic analysis part of the WFD in to Turkish legislation</p> <p>Activity 1.8 Analysis of the present river basin protection action plans, in view of the WFD requirements and reporting for the trainings in the Twinning Activity 2.1</p> <p>Activity 1.9 Options on how to bridge the gap between RBPAP and river basin management plans and reporting for the trainings in the Twinning</p> <p><b>2 Fully operational monitoring system in line with the acquis is in place</b></p> <p>Activity 2.1 Delineation of the water bodies (both surface waters and ground waters) and the typologies thereof in the pilot basins</p> <p>Activity 2.2 Analysing pressures and impacts</p> <p>Activity 2.3 Analysis of data requirements for making RBMPs (biological, chemical and hydro-morphological in accordance with WFD)</p> <p>Activity 2.4 Establishment and update of monitoring programmes for the pilot basins, both for surface waters and ground waters, Revision of monitoring points drafted in view</p>			

Activities	Means	Costs	Assumptions
<p>of the pressures and impacts analysis</p> <p>Activity 2.5 Collecting data on water use, population equivalent and waste water production; establishing a decision support system for the programme of measures by reflecting Turkey specific conditions</p> <p>Activity 2.6 Monitoring in accordance with WFD (biological, chemical, hydro-morphological), including sampling and analysis (3 basins -Susurluk, Konya, Meriç-Ergene --- 12 times a year, approximately 40 monitoring points)</p> <p>Activity 2.7 Study visit on the best practices in the making of Characterization Reports in Member States for 20 people</p> <p>Activity 2.8 Development of software (data management system) and the operation of the system</p> <p>Activity 2.9 Collecting data on protected areas, definition of protected areas in the pilot basins in view of the related EU Directives</p> <p>Activity 2.10 Definition of agglomerations in the pilot basins in accordance with the Urban Waste Water Treatment Directive (UWWTD)</p> <p>Activity 2.11 Making of all required GIS maps, by using water quality modelling</p> <p>Activity 2.12 Collection of economic data (water uses, pricing, cost-recovery,</p>			

Activities	Means	Costs	Assumptions
<p>consumption amounts, waste water amounts etc.) by also using water quality and quantity modelling</p> <p><b>3 River Basin Management Plans completed for Maritza-Ergene, Konya, Büyük Menderes and Susurluk basins</b></p> <p>Activity 3.1 Training on the conversion of RBPAPs into RBMPs. In this activity, the central and provincial staff, the staff from laboratories, the central, regional and provincial directorates of the other related institutions, and experts from Bulgaria and Greece from the transboundary pilot river basin will be involved in the trainings. There will be workshops, trainings sessions, field visits held</p> <p>Activity 3.2 Evaluation of all collected data from the Twinning Project and the Technical Assistance Project in view of the Characterisation Report, the Significant Water Management Issues Report and the River Basin Management Plan</p> <p>Activity 3.3 Analysis of the state of the art of the execution of the identified actions in the National Implementation Plan (NIP) for WFD (gap analysis of what has been planned and what has been carried out)</p> <p>Activity 3.4 Analysis of the actual water management situation in Turkey (that may</p>			

Activities	Means	Costs	Assumptions
<p>lead to an update of the NIP)</p> <p>Activity 3.5 Analysis of the new actions to be executed</p> <p>Activity 3.6 Review of actions that need to be carried out, on the level of the river basins and on the central level in Ankara</p> <p>Activity 3.7 Review of required financial and human resources, including data need assessment</p> <p>Activity 3.8 Drafting of the Characterisation Report (Article 5 Report) including climate change scenarios</p> <p>Activity 3.9 Definition of reference conditions and Environmental Objectives (EQSs and EQRs) for surface waters and quality and quantity standards, including threshold values for ground waters in the pilot basins</p> <p>Activity 3.10 Definition of status for all surface water bodies and groundwater bodies in the pilot basins</p> <p>Activity 3.11 Making of the Significant Water Management Issues Report</p> <p>Activity 3.12 Carrying out the economic analysis of water use by taking into account Articles 5, 9 and 11 of WFD</p> <p>Activity 3.13 Making out the Programme of</p>			



Activities	Means	Costs	Assumptions
<p>Measures, including cost-effectiveness analyses of the measures</p> <p>Activity 3.14 Modelling to assess effectiveness of the basic measures and define the supplementary and additional measures</p> <p>Activity 3.15 Making out the register of related programmes and plans, the list of Competent Authorities and the contact list for the RBMPs</p> <p>Activity 3.16 Study visit on the best practices in the making of RBMPs in Member States for 20 people</p> <p>Activity 3.17 Making out River Basin Management Plans for the pilot basins, and finalizing the National Implementation Plan for the Water Framework Directive</p> <p>Activity 3.18 Guidelines and manuals for the making of RBMPs clearly defining all tasks and responsibilities for the other basins in Turkey in a step-wise approach</p> <p>Activity 3.19 Stakeholder consultation in the pilot basins for the Characterisation Report, Significant Water Management Issues, programme of Measures, RBMP</p>			



ANNEX II: Amounts (in €) Contracted and disbursed by quarter for the project (IPA Contribution)

<b>Contracted</b>	<b>2013 QR2</b>	<b>2013 QR3</b>	<b>2013 QR4</b>	<b>2014 QR1</b>	<b>2014 QR2</b>	<b>2014 QR3</b>	<b>2014 QR4</b>	<b>2015 QR1</b>	<b>2015 QR2</b>	<b>2015 QR3</b>	<b>2015 QR4</b>	<b>2016 QR1</b>	<b>Check</b>
Twinning Contract		950.000 €											950.000 €
TA Contract	5.040.000 €												5.040.000 €
<b>Cumulated</b>	<b>5.040.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>
<b>Disbursed</b>													
Twinning Contract		399.000 €	456.000 €		95.000 €								950.000 €
TA Contract	1.108.800 €			1.713.600 €			1.713.600 €					504.000 €	5.040.000 €
<b>Cumulated</b>	<b>1.108.800 €</b>	<b>1.507.800 €</b>	<b>1.963.800 €</b>	<b>3.677.400 €</b>	<b>3.772.400 €</b>	<b>3.772.400 €</b>	<b>5.486.000 €</b>	<b>5.486.000 €</b>	<b>5.486.000 €</b>	<b>5.486.000 €</b>	<b>5.486.000 €</b>	<b>5.990.000 €</b>	<b>5.990.000 €</b>

