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# BACKGROUND INFORMATION

## Partner country

Republic of Turkey

## Contracting authority

District Government of Enez

## Country background

The Aegian and Black Sea ecosystems are known to be rich and diverse, but they are also considered to be vulnerable as they experience notably significant pressure from land-based pollution. They were identified same problems around the chanal Vaya lake, connected with Black sea, the area of the lake around Gorno Ezerovo borough and the lagoons and beaches around Enez, Aegian sea. One of the major type of problematic pollutants in Burgas and Enez are urban wastes, dumped into the beaches, channal, rivers around both coastal towns. Sometimes even toxic and chemical substances enter the soil and waters, they will not vanish but will be washed away to the sea. Their removal is likely to take decades and the resources necessary for that are difficult to calculate.The larger part of the pollution caused by human activity will not simply disappear. The main need of the project target groups is to be decreased pollution and to be improved the capacity for nature protection, including through adequate investment intervention, maintenance and management of these resources, awareness and cleaning up campaigns.Given the above described specifics, the scientific attraction and the highly significant natural value of the two sites, both project partners, in the course of their good working relations, reached the conclusion that a joint project aiming at decreasing polluting in channal in Burgas and lagoon in Enez by a complex approach leading to certain results: empathy and activity of society towards the problems of sea pollution and certain improvement of ecological conditions and protection the diversity of habitats on Via Pontica route. Implementation of the project will be of highest value for the local communities and visitors of Burgas and Enez.

## Current situation in the sector

Being part of second largest migration path of birds in Europe Via Pontika wetlands in Burgas and Enez have a solid ground for cooperation in the field of nature protection and sustainable use of common natural resources. Despite this fact the cb region is increasingly under environmental pressure of different kind. For this reason negative environmental effects have intensified and contributed to increase of the level of pollution. Those negative effects have being take into consideration by both project partners and they intent to work hard on the sustainable management and the protection of natural resources in the cb area. Through this joint project the project partners will increase the local awareness about the individual actions that they can take to help reduce coasts pollutions, especially in wetlands. The project aims at contributing to the effectiveness of the measures taken by authorities to address the issue of marine litter, as common challenge in the environmental protection of the Black and Aegian Seas. Specific objectives: decreasing urban pollution in wetlands in Black and Aegian seas through small-scale investement measures, reserach on sources of pollution, exchange of good EU practices for better waste management, ensuring conditions for common work of institutions and civil society for decreasing pollution and increasing awareness in cb region. The target groups - representatives of regional authorities; institutions managing protected areas, waste management, environmental NGOs, young people, citizens and tourists identified within the regions covered by the joint action will be involved in joint activities for waste management, clean up and awareness raising campaigns, promoting good European practices. The project will esure conditions for common work of institutions and civil society for decreasing pollution and increasing awareness in cb region. We expect following results: 1. Identified sources of marine litter in cb areas and good waste management practices; 2. Exchanged expertise for better waste management, nature protection and inclusion on the public and business; 3. Eliminated landfill in the area of chanal of Vaya lake; 4. Initial activities for development of separate waste management in Enez; 5. Increased awareness about marine litter prevention and increased commitment of society to the problems of protecting the seas from pollution.

## Related programmes and other donor activities

Interreg-IPA CBC Bulgaria-Turkey Programme 2014-2020

# OBJECTIVE, PURPOSE & EXPECTED RESULTS

## Overall objective

The overall objective of the project of which this contract will be a part is as follows:

Identification of the sources of litter in CB areas subject of the current project as a base for the later cleaning and awareness activities; The lagoons classified in natural set lakes are more commonly known as aquatic ecosystems close to marine, generally described as wetlands that have shallow waters and are partly or completely separated from the sea by barriers created by sedimentation. Lagooner lakes are ecologically important ecosystems, these environments are also among the world’s most important sources of natural biological wealth because they have a broad spectrum in terms of water quality and are number one priority to be protected. The physical, chemical and biological components of the lagoon must be identified in order for the activity areas of the lake to be determined. In addition, since ecosystem balances of lagoons are highly sensitive, they should be monitored frequently and necessary improvement studies should be carried out to ensure that their productivity is sustainable. On the base of analysis polluters will be identified.

## Purpose

The purposes of this contract are as follows:

The purpose of this contract is to provide professional expertise services for: The Limnologic Characteristics And Management Plan Of Dalyan (Peso), Taşalti And Bücürmene (Üzmene, Işik) (Saros Gulf – Enez, Edirne) Lagoons:

**1) Field Studies:**For the study, a total of 8 workstations will be constructed, one from the stations that will best characterize the lakes (3 in Dalyan Lake, 2 in Taşaltı Lake and 1 in Bucurmene Lake (Işık) and 2 in Meriç River to determine the ecological effect brought by the Meriç River. In every station seasonal sampling (Spring, Summer, Autumn, Winter) will be done. The following samples are targeted to reach the following limnological data:

1. Physical and chemical analyzes: Some environmental parameters (pH, dissolved oxygen, water temperature, conductivity, calcium, magnesium, chlorophyll-a, nutrient salts and some physicochemical parameters such as some heavy metal values) play the most important role in the distribution of fishes will be determined by a seasonal measurement at a sampling station. Some of the parameters are made in the sampling area while the Nansen water intake container and 2 liters of water samples are taken for analysis.

2. Benthic macroleakers: Bentik Sediment samples taken with Ekman Bageri for collection of macro irregulars will be sieved from sieves with different oval ranges and the organisms will be sorted, placed in 250 ml plastic bottles containing 70% ethyl alcohol and labeled and brought to the laboratory

3. Planktons: Zooplankton specimens shall be collected horizontally by simple plankton bushes with a 25 cm mouth diameter, 75 cm length and 55 micron eye spacing, with small hand lobes having a range of 55 microns in areas where plankton grabs can not be drawn. Collected specimens shall be placed in 250 ml plastic bottles containing 4% formaldehyde and labeled and brought to the laboratory. For phytoplankton samples, 2 liters of water samples shall be taken with Nansen water intake container and placed in dark bottles and transported to the laboratory.

4. Fish: In order to identify species of fish on the ground, fish from various fish nets or fishermen from the region will be examined in various sizes and necessary samples will be agreed.

5. Environmental Factors: Environmental factors affecting lakes will be monitored and recorded.

**2) Analysis of the samples:**

1. Physical and chemical analyzes: Some water analyzes (pH, dissolved oxygen, conductivity, salinity, etc.) were performed during sampling with field instruments to determine the physicochemical properties of water.

2. Benthic macroleakers: The analysis of these organisms at the group or species level will determine the abundance in the lakes.

3. Plankton Analysis: The biological abundance in the lakes will be determined while carrying out the analysis of these organisms at the group or species level.

4. Fish: Fish species and economic species living in the lakes will be determined.

5. Other: Fishing hunting, livestock farming, reclamation, sand purchasing, tourism etc. affecting the lake. activities will be observed on site and interviewed with local people.

**3) Evaluation of the data:**

By evaluating all the limnological, ecological and sociological data obtained, the factors threatening the lakes and the opportunities offered by the lakes for the people of the region will be determined while presenting the present condition of the lakes and suggestions for the sustainable use will be made. This data will be prepared in a report. The progress of the work activities will be presented during a workshop in Burgas.

## Results to be achieved by the contractor

The Contractor should successfully organize or support the organization of all above-mentioned events, according to the specific requirements and pre-set deadlines detailed in section 4 of this document and should submit the required reports and documentation, described in section 7.

# ASSUMPTIONS & RISKS

## Assumptions underlying the project

Clear understanding of the contract objectives and purposes on behalf of the Contractor

Timely information for the respective place and date of the events provided by the Contracting Authority

Full cooperation between the Contracting Authority and the Contractor in view to fulfil the tasks on time, with high quality and within the budget limitation.

## Risks

Lack of information exchange in between planned activities.

Insufficient capacity of the experts involved in the implementation of the activities.

# SCOPE OF THE WORK

## General

### Description of the assignment

The scope of the contract is as follows: The Contractor shall provide professional expertise services with 5 experts within the scope of the project, In order for the activity areas of the lake to be determined the physical, chemical and biological components of the lagoon to be identified. In addition, since ecosystem balances of lagoons are highly sensitive, they should be monitored frequently and necessary improvement studies should be carried out to ensure that their productivity is sustainable. On the base of analisys polluters will be identified. Details of the activities are explicitly defined on the table 4.2 of this document.

### Geographical area to be covered

Enez, Edirne

### Target groups

The main target groups are : Experts, young people, visitors and residents of the cross-border region, regional authorities, bodies responsible for biodiversity, NGOs, tourists, general public

## Specific work

|  |  |
| --- | --- |
| **Sub item** |  |
| ***Physiochemical Analyses*** | Total of 8 stations × 4 seasons= 32 samples  (Field type multiparameter device required for water analysis) |
| ***Biological Analyzes*** | Preparation of all samples for analysis 8 stations x 4 = 32 samples  Diagnosis and Abundance Analysis of Benthic Species 8 stations x 4 = 32 samples  Diagnosis and Abundance Analysis of Zooplankton Species 8 stations x 4 = 32 samples  Diagnosis and Abundance Analysis of Phytoplankton Species 8 stations x 4 = 32 samples  Identification and Analysis of Fish Species (for all lakes) |
| ***Report*** | Minimum 50 pages (Turkish and English) |

## Project management

### Responsible body

District Government of Enez

### Management structure

The Contracting Authority is responsible for conducting the current tender procedure, signing the service contract and carrying out the overall management and control on the contract implementation..

The Contractor is fully responsible for the quality and timely delivery of the contract results, according to the contractual provisions. In this respect, the Contractor shall ensure that the reports are delivered on time and the executed activities are in line with the current Terms of Reference and the regulatory framework requirements.

All decisions will be approved by the Contracting authority.

### Facilities to be provided by the contracting authority and/or other parties

Not aplicable

# LOGISTICS AND TIMING

## Location

Implementation of these activities are determined to be Enez, Edirne region.

## Start date & period of implementation of tasks

The intended start date is 03.03.2020 and the period of implementation of the contract will be 12 months from this date. Please see Articles 19.1 and 19.2 of the special conditions for the actual start date and period of implementation.

# REQUIREMENTS

## Staff

Note that civil servants and other staff of the public administration of the partner country, or of international/regional organisations based in the country, shall only be approved to work as experts if well justified. The justification should be submitted with the tender and shall include information on the added value the expert will bring as well as proof that the expert is seconded or on personal leave.

### Key experts

The contractor shall provide 5 (five) CVs of experts with specific profile who shall be engaged with project with following qualification:

* University Master's or Bachelor’s degree in Biology, Ecology, Agriculture, Nature sciences such as Physics, Chemistry, Environment, Social science, Geography, or equivalent qualification.
* Excellent command if accompanied by working experience relevant to the position.
* Minimum 1 year experience in the areas relevant to the assigment (ecology, biology, research or study in environment, regional development, etc.)
* Excellent communication, report, writing, presentation, research and analytical skills
* Total Work Experience – 2 years at least.

Other requirements to all 5 experts: Not have a criminal record and not the recipient of orders that concern the application of preventive measures, civil decisions and measures administrative entered in the judicial record; Not be subjected to criminal or accounting procedures.

All experts must be independent and free from conflicts of interest in the responsibilities they take on.

All required information for key experts - CVs, experience, list of contracts must be filled in: b8h\_annexivexperts\_en.xlsx

### Other experts, support staff & backstopping

CVs for experts other than the key experts should not be submitted in the tender but the tenderer will have to demonstrate in their offer that they have access to experts with the required profiles. The contractor shall select and hire other experts as required according to the needs. The selection procedures used by the contractor to select these other experts shall be transparent, and shall be based on pre-defined criteria, including professional qualifications, language skills and work experience.

The costs for backstopping and support staff, as needed, are considered to be included in the tenderer's financial offer.

## Office accommodation

Office accommodation for each expert working on the contract is to be provided by the contractor.

## Facilities to be provided by the contractor

The contractor shall ensure that experts are adequately supported and equipped. In particular it must ensure that there is sufficient administrative, secretarial and interpreting provision to enable experts to concentrate on their primary responsibilities. It must also transfer funds as necessary to support their work under the contract and to ensure that its employees are paid regularly and in a timely fashion.

## Equipment

**No** equipment is to be purchased on behalf of the contracting authority / partner country as part of this service contract or transferred to the contracting authority / partner country at the end of this contract. Any equipment related to this contract which is to be acquired by the partner country must be purchased by means of a separate supply tender procedure.

# REPORTS

## Reporting requirements

The contractor will submit the following reports in English and Turkish in one original copy:

* **Inception Report** of maximum 12 pages to be produced after one week from the start of implementation. In the report the contractor shall describe e.g. initial findings, progress in collecting data, any difficulties encountered or expected in addition to the work programme and staff travel. The contractor should proceed with his/her work unless the contracting authority sends comments on the inception report.
* **Final report** with the same specifications as the draft final report, incorporating any comments received from the parties on the draft report. The deadline for sending the final report is 20 days after receipt of comments on the draft final report. The report shall contain a sufficiently detailed description of the different options to support an informed decision on contracting aothority. The detailed analyses underpinning the recommendations will be presented in annexes to the main report. The final report must be provided along with the corresponding invoice.

## Submission and approval of reports

The report referred to above must be submitted to the project manager identified in the contract. The project manager is responsible for approving the reports.

# MONITORING AND EVALUATION

## Definition of indicators

***Physiochemical Analizes***

* Total of 8 stations × 4 seasons = 32 samples

***Biological Analyzes***

* Preparation of all samples for analysis 8 stations x 4 = 32 samples
* Diagnosis and Abundance Analysis of Benthic Species 8 stations x 4 = 32 samples
* Diagnosis and Abundance Analysis of Zooplankton Species 8 stations x 4 = 32 samples
* Diagnosis and Abundance Analysis of Phytoplankton Species 8 stations x 4 = 32 samples
* Identification and Analysis of Fish Species

***Report***

* Minimum 50 pages (Turkish and English)

## Special requirements

Not applicable