



European Union Water Initiative Plus for the Eastern Partnership (EUWI+) Ukraine



TERMS OF REFERENCE FOR LOCAL CONTRACTOR “DEVELOPMENT OF DRAFT RIVER BASIN MANAGEMENT PLAN FOR DNIPRO RIVER BASIN IN UKRAINE: PHASE 1 – ECONOMIC ANALYSIS PART 1 BY SUB- BASIN”

9 October 2020

1. Financing

European Union (ENI/2016/372-403)

2. Procedure

Single Tender Procedure according to EU PRAG

3. Contracting Authority

International Office for Water (IOW)

4. Nature of contract

Service contract

5. Time period of implementation

October 2020 – December 2020

6. Contract amount

Maximum amount 8,000 €

7. Background information

The EUWI+ project addresses existing challenges in both development and implementation of efficient management of water resources. It specifically supports the Eastern Partnership¹ countries to move towards the approximation to EU acquis in the field of water management with a focus on trans-boundary river basin management as identified by the EU Water Framework Directive (WFD).

The overall objective of the project is to improve the management of water resources in the EaP countries.

¹ The Eastern Partnership (EaP) is a policy initiative launched at the Prague Summit in May 2009. It aims to deepen and strengthen relations between the European Union and its six Eastern neighbours: Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine.

The specific objective is to achieve convergence of national policies and strategies with the EU Water Framework Directive, Integrated Water Resource Management (IWRM) and relevant Multilateral Environmental Agreements (MEAs).

The EUWI+ project is divided into three result areas as follows:

- Result 1: Legal and regulatory frameworks improved in line with the WFD, IWRM and MEAs;
- Result 2: River Basins Management Plans designed and implemented in line with the WFD principles;
- Result 3: Lessons learnt regularly collected, shared and communicated to stakeholders.

This assignment will contribute to the implementation of the Result 2, activity 2.3.2. “Technical Support in the elaboration and implementation of the pilot River Basin Management Plans (RBMPs)” and activity 2.3.6. “Development and strengthening of national databases on water related issues & ensure compliance of data with SEIS principles for collection and sharing of data”.

This assignment concerns the “economic analysis, part 1”, dedicated to the economic characterization of uses and to an analysis of the cost recovery of water supply and sanitation services², which will be used for the draft RBMP for the Dnipro river basin in Ukraine (289,000 km²) in line with annex 7 of the WFD (Directive 2000/60/EC) and Decree from the Cabinet of Ministers of Ukraine (CMU) of 18 May 2017 on the preparation of River Basin Management Plan and the Order of the Minister of Environment and Natural Resources of Ukraine (MENR) of 26 January 2017 on Basin Councils. As an economic analysis is available for the whole Dnipro, this assignment concerns the splitting of the results per sub-basin. Dnipro is divided in 5 sub-basins but the results will be split into 4 areas: Pripjat; Desna-Upper Dnipro; Middle Dnipro; Lower Dnipro (see map in annex).

As these Tender concerns the first cycle of Dnipro RBMP, the estimation of environmental costs recovery is not binding. The contractor will focus on the recovery of the costs of water services.

8. Scope of works & deliverables

8.1. Scope of works

The main objective of this assignment is to produce elements for the draft of the RBMP in line with the Water Framework Directive and the Decree from the CMU, based on previous reports elaborated in the frame of EUWI+ project, a review of available data, information and literature, meetings with stakeholders, data formatting and exploitation, brainstorming, experts' judgement, etc. No field survey neither census is asked at this step of the planning process. Therefore, data valorization represents an important task. Note that most of the data are already available at the whole Dnipro level.

As a crucial working base, the following previous reports elaborated in the frame of EUWI+ project will be transmitted:

- Identification and delineation of surface water bodies in Dnipro river basin district in Ukraine,
- Identification and delineation of groundwater bodies in Dnipro river basin district in Ukraine,
- Development of draft Dnipro river basin management plan in Ukraine: description of the characteristics of the river basin,
- Development of draft Dnipro river basin management plan in Ukraine: Identification of protected areas, proposal of related environmental objectives,
- Development of draft Dnipro river basin management plan in Ukraine: Analysis of pressures & impact, risk assessment, environmental objectives for surface water bodies,
- Development of draft Dnipro river basin management plan in Ukraine: Analysis of pressures & impact, risk assessment, environmental objectives, and monitoring programme for groundwater,
- Development of draft Dnipro river basin management plan in Ukraine: Economic analysis part 1.

² During the RBMP process after the EUWI+ project, another tender will be launched for the second part of the economic analysis, dedicated to the programme of measures.

Note that these documents are available in English as well as in Ukrainian. Most of the data, shapefiles and information are available in these documents. They will be transmitted with the Tender Dossier.

The economic analysis is necessary to describe the situation of the river basin. This inventory makes it possible to identify and quantify all water-related uses present on its territory. This inventory includes:

- Characterization of uses with: quantitative data about the type of use and their importance (in number), socio-economic data (economic weight, jobs concerned ...),
- An analysis on the cost recovery of water and sanitation services. This analysis identifies for major sectors (population, industry, agriculture) if the revenues of the services make it possible to support the costs (investment, operation costs and maintenance) of the service and its future renewal. The part of public aids/contributions on the services revenues will be estimated.

The outputs will be part of the future RBMP and presented at sub-basin scale: Pripjat; Desna-Upper Dnipro; Middle Dnipro; Lower Dnipro. The outputs will be considered as chapters for the final draft RBMP. The output for the whole Dnipro is already available.

During the assignment, with the significant support of the project team, the consultant will propose methodologies in line with European Guidance documents developed in the Frame of the Common Implementation Strategy.

See http://ec.europa.eu/environment/water/water-framework/facts_figures/guidance_docs_en.htm

The traceability of data used will have to be ensured.

8.2 Deliverables

The deliverables will include:

- 4 reports “economic analysis part 1” for the following sub-basins: Pripjat; Desna-Upper Dnipro; Middle Dnipro; Lower Dnipro;
- All datasets used described.

The maps produced will be presented for the 4 sub-basins (note that Upper Dnipro will be joint with Desna RB), in accordance with the Order of the Ministry of Ecology and Natural Resources of Ukraine from 3 March 2017 № 103 on approval of the boundaries of river basin districts, sub-basins and water areas. Annex 3 describes the template for these global maps (the associated files will be transmitted to the contractor).

Complementary collection of possible missing data and information will be steered at the smaller geographical unit in order to facilitate further combination.

Template of a proposed table of content is shown below that gives idea of the minimum information required for each section (subject to data and information availability). The lack of information will be reported. The outline will be similar for the 4 reports. The mentioned information should be presented according structure of Annex (chapter 6) from Resolution of the Cabinet of Ministers of Ukraine № 336.

Economic analysis (part 1 related to sub-basin characterisation)

1) Economic development of the sub-basin

- Economic weights by relevant water uses, socio-economic issues (GDP, main trends, etc.)

2) Present water uses

- Municipal water use

- Industrial water use
- Water use in agriculture
- Water transport
- Other types of water use

3) Forecast water needs of basic industries and key users

4) Economic instruments of control

- Water tariffs
- Return water use, tariffs for discharges by sector and by territory
- Description of recipient of the funds and management principles
- Funding (investment, maintenance) by sector
- Cost-recovery assessment of water and sanitation services

8.3 Data collection

The necessary datasets necessary for an efficient Integrated Water Resource Management are produced by various organizations.

The basic principle of action is that all the datasets presented or used in a map or a table or an indicator must be described in a catalogue of metadata (see the template established by the project in annex 2).

If some significant data are missing from the previous reports, the contractor will have to collect them from the data producers.

The corresponding expected results can be formulated as follow: all datasets used are described in English and in Ukrainian into the metadata catalogue.

It is understood that the metadata forms will have to be collected from each data producer while collecting data, but their production is not under the responsibility of the contractor.

Smaller geographical unit will be favored for data collection in order to facilitate their valorization at water body level.

8.4 Format

All the documents consulted, maps, data and information collected, interviews' records will be transmitted in their original forms (paper, files, GIS layers) and their valorised forms (data base, Excel, etc).

Reports will be transmitted in digital form which can be corrected (MS Office 2007). Priority will be focused on illustrations, synthetic tables and straightforward style. The main tables of water bodies will be provided in Excel format.

The report as well as the tables will be produced in Ukrainian and in English.

The documents produced (reports, maps, etc.) will have to follow format and templates which will be provided to the contractor at the beginning of the assignment.

8.5 Meetings & trainings

Meetings will be held with the contractor by the project team (at least 2 meetings).

9. Implementation modalities

9.1 Schedule

Duration of the assessment will be up to 3 months and is expected to start from October 2020 and finish on December 2020. The contractor will have to inform regularly the experts' team about the problems and the progress. The experts' team will be allowed to question the contractor.

Summary of the work schedule

Deliverables	Approx. number of pages outside annex	Language of deliverable	Start date	Due date for draft report	Finalization
Economic analysis part 1 for: <ul style="list-style-type: none">• Pripjat• Desna-Upper Dnipro• Middle Dnipro• Lower Dnipro	< 20 per sub-basin	Ukrainian and English	October 2020	November 2020	December 2020

9.2 Implementation modality

Works shall be implemented by a local company or group of NGO(s), university, research institution, etc. that are not representing the project beneficiaries. The studies will be closely coordinated, assisted and monitored by the project team, consisting mainly of the thematic experts (RBMP, data management), the country representative, the national thematic focal points for RBMP, and the National Focal Point or his/her representative. Close relationships will be formed and maintained with the beneficiary who will own the product and take full ownership of the RBMP.

Technical issues as data description (producers, availability, quality, scales, collection frequency, etc), related difficulties to collect them, data formatting requirements, methodological aspects, etc. will be discussed with the project team.

The contractor will have to designate competent specialists for each part of the assignment as well as a coordinator who will be responsible of managing these specialists, harmonising the document, and will inform regularly the project team.

As a matter of illustration, the contractor's team could be typically composed of the following expert profiles:

- 1 team leader, with knowledge in water management;
- 1 economist;
- 1 technician for data management.

9.3 Contact details

The operational project coordinator for RBMP (State Agency of Water Resources of Ukraine):
Ms. Mariia SHPANCHYK
spanchyk@davr.gov.ua

The coordinator on behalf of EUWI+ (relevant country representative):
Ms. Oksana KONOVALENKO
oks_konovalenko@ukr.net

The responsible thematic leader:
Mr. Philippe SEGUIN
International Office for Water
p.seguin@oieau.fr

10. Participation to the tender

Interested parties (individual and legal persons) are invited to inquire the full tender dossier containing instructions and further information about the tender procedure from Ms. Zohra OUARTI, Project Assistant, International Office for Water (IOW) and Mr. Philippe SEGUIN, Project Manager, International Office for Water (IOW)
Email address: z.ouarti@oieau.fr
Email address: p.seguin@oieau.fr

Deadline for submission of the technical and financial offer is **26 October 2020, 17.00 CET.**

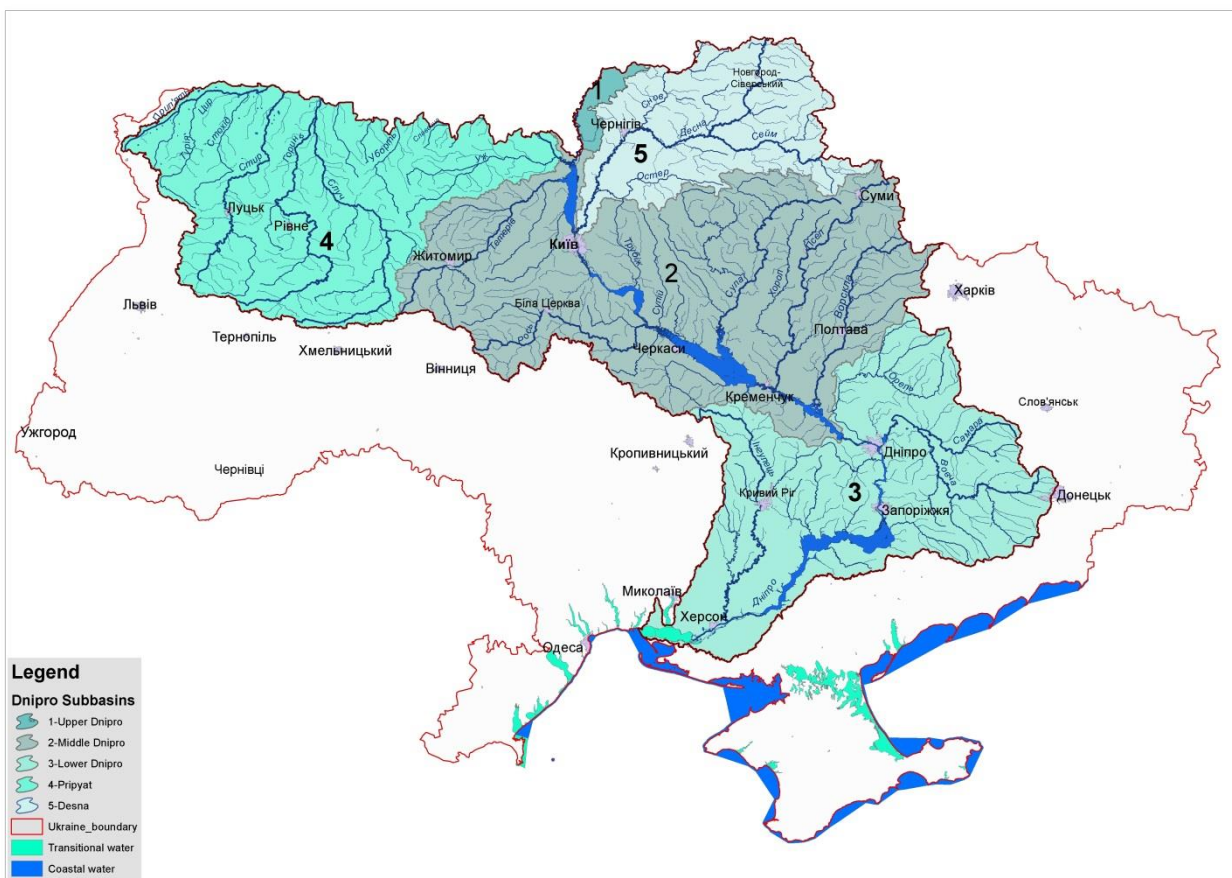
Annexes:

Annex 1: Map of Dnipro River Basin in Ukraine

Annex 2: Template for metadata catalogue

Annex 3: Template for mapping

Annex 1: Map of Dnipro river basin in Ukraine



Annex 2: Template for metadata catalogue



**European Union Water Initiative plus
for the Eastern Partnership**

DATA SOURCE IDENTIFICATION FORM - UKRAINE

TITLE OF THE DATA SOURCE

(ex: Data Sheet of ..., map of ...
Database of ..., Report on ...)

ABSTRACT: (Global content, Author and objective: Database/website/map on ... created byto do ...)

**GEO KEYWORD
MAIN BASIN**

**GEO KEYWORD
ADMIN**

**TOPIC KEYWORD
IWRM**

**TOPIC KEYWORD
INSPIRE**

INFORMATION ON DISSEMINATION

WEB ADDRESS OR URL WHERE THE DOCUMENT CAN BE CONSULTED AND/OR DOWNLOADED

LEVEL OF ACCESS
(ONE OF THE FOLLOWING:

"FREE ACCESS WITH COPYRIGHT", "RESTRICTED TO PARTNERS", "AVAILABLE UNDER PAYMENT OF FEES")

CATEGORY, FORMAT AND SCALE OF THE DATA SOURCE

CATEGORY

FORMAT

SCALE

("DATASET", "GIS LAYER", "MAP", "DOCUMENT", "INFORMATION SYSTEM) (EX: PAPER, PDF; JPEG; SHP...) (EX: 1/100.000)

CONTACT PERSON TO GET MORE INFORMATION ON THIS DATA SOURCE

NAME

ORGANIZATION

EMAIL

POSITION

FORM OF METADATA COMPLETED BY

NAME

ORGANIZATION

EMAIL








POSITION

Date



International Office for water - v.15/09/2017

Annex 3: Template for mapping

TITLE			Background layer legend																		
Thematic symbology	Location Map	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">Systeme Coordination Reference</td> </tr> <tr> <td style="text-align: center; padding: 2px;">WGS 84</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">Scale</td> </tr> <tr> <td style="text-align: center; padding: 2px;">1:1 610 384</td> </tr> </table>	Systeme Coordination Reference	WGS 84	Scale	1:1 610 384	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center; padding: 2px;">Data source</td> </tr> <tr> <td colspan="2" style="padding: 2px;"><i>Name of the data sources</i></td> </tr> <tr> <td style="text-align: center; padding: 2px;">  </td> <td style="text-align: center; padding: 2px;">  </td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 2px;"> "European Union Water Initiative plus for Eastern Partnership Countries" </td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 2px;"><i>Name of organisation</i></td> </tr> <tr> <td style="padding: 2px;"><i>Elaboration, revision, approval</i></td> <td style="padding: 2px;"><i>Path</i></td> </tr> <tr> <td style="padding: 2px;"><i>Date</i></td> <td style="padding: 2px;"><i>Scale</i></td> </tr> </table>	Data source		<i>Name of the data sources</i>				"European Union Water Initiative plus for Eastern Partnership Countries"		<i>Name of organisation</i>		<i>Elaboration, revision, approval</i>	<i>Path</i>	<i>Date</i>	<i>Scale</i>
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		Activity implemented by Umweltbundesamt, Austria & International Office for Water, France																			
		