



## Terms of Reference

### Preparation of an Integrated Management Plan for the Damour Area in Lebanon

*in the framework of*

*the “GEF/UNEP Environment “Mediterranean Sea Programme (MedProgramme): Enhancing Environmental Security” and particularly its Child Project 2.1 implemented by the Global Water Partnership-Mediterranean (GWP-Med)*

#### 1. Background

The GEF/UNEP "Mediterranean Sea Programme: Enhancing Environmental Security" (MedProgramme, 2019-2025) is a comprehensive initiative in the Mediterranean Sea aimed at addressing key environmental challenges. The program seeks to reduce transboundary environmental stresses, promote climate resilience, ensure water security, and enhance the well-being of coastal populations.

To achieve these goals, the program consists of sub-components known as "Child Projects (CPs)" spanning across the Global Environment Facility's focal areas, including International Waters, Biodiversity, Chemicals and Waste, and Climate Change. The implementation involves collaboration with various stakeholders from the nine beneficiary countries: Albania, Algeria, Bosnia and Herzegovina, Egypt, Lebanon, Libya, Montenegro, Morocco, and Tunisia.

One of the Child Projects (CP 2.1) focuses on the topic of "**Mediterranean Coastal Zones: Water Security, Climate Resilience, and Habitat Protection**". The activities related to this project are led by the Global Water Partnership-Mediterranean (GWP-Med), Priority Actions Programme Regional Activity Centre (PAP/RAC), Plan Bleu Regional Activity Centre (Plan Bleu RAC), and UNESCO International Hydrological Programme (UNESCO IHP); these are the executing partners (EP) of the project.

Within the framework of CP 2.1, the EP are collaborating on the development of an Integrated Management Plan for the Damour area in Lebanon.

#### 2. Objective

The objective of this assignment is to develop an **Integrated Management Plan (referred to as the "IMP") for the Damour source to sea continuum**. The Damour source to sea continuum encompasses a spatial area that includes the Damour basin, the underlying aquifers, the adjacent coastal area, and the marine area that is directly or indirectly affected by the water flow and the socio-economic activities in the Damour area.

The management plan should be developed following the "**Source to Sea**" approach and the **Integrative Methodological Framework (IMF)**, the latter being developed by GWP-Med, PAP/RAC and UNESCO, as guiding documents<sup>1</sup>.

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<sup>1</sup> [https://siwi.org/wp-content/uploads/2019/07/source-to-sea-guide\\_webb.pdf](https://siwi.org/wp-content/uploads/2019/07/source-to-sea-guide_webb.pdf)  
<https://www.gwp.org/globalassets/global/toolbox/references/imf-guidelines-final.pdf>

### 3. Key Tasks – Requested services

This exercise requires expertise in various disciplines, as outlined in the Draft Table of Contents related to the IMP for the Damour area, which can be found in Annex I.

The source-to-sea Damour IMP will be developed with technical contributions from teams working under contracts with the EPs. The Team Leader will have the task to guide the team of experts engaged under this assignment that will be performed under a contract with GWP-Med as well as the rest of the teams (working under contracts with PAP RAC, UNESCO, Blue Plan) with the aim to acquire the necessary information and data and develop the necessary input for the preparation of the IMP. The EPs involved in this activity will establish a mechanism to facilitate this.

The Experts to be involved in the IMP development and the EP under which they will be contracted through separate Call for Offers are shown below:

- **GWP-Med (expertise sought through this Call for Offers)**
  - **Hydrology / Water Management Expert (Team Leader of the team of experts under this assignment as well as the teams that will be working with contracts under PAP RAC and UNESCO)**
  - **Governance Expert**
  - **Socio-Economic Expert**
  - **Environment Expert**
  - **GIS Specialist**
  - **WEAP expert**
  - **Climate expert**
  - **Geologist**
- UNESCO
  - Groundwater/coastal aquifers expert
- PAP /RAC
  - ICZM expert
  - Spatial planner
  - Biologist (land and marine)
  - GIS specialist for the coastal area
  - Climate expert for the coastal area
- Blue Plan
  - Participatory approaches expert

Guidance and support will be sought throughout the process from the relevant national counterparts, namely the Lebanese Ministry of Environment (MoE) and the Lebanese Ministry of Energy and Water (MoEW).

The preliminary Table of Contents (Annex I) provides an overview of the information that the experts contracted under GWP-Med will need to provide and analyze.

Detailed qualifications necessary for each expert are further outlined in Chapter 8 below.

The following paragraphs describe the key Tasks and Deliverables for the preparation of the IMP. All experts contracted under all EPs will work for the delivery of these Tasks and Deliverables. As stated above, the Team Leader working under a contract with GWP-Med (based on this Call for Offers) will be responsible for guiding the work for the development of the IMP.

**1. Preparation of an Inception Report / Scoping Report (SR)** that will outline the present (baseline) and projected prevailing conditions within the plan area and identify the priority issues that the

development plan should focus upon. The report will set the context and approach for the assessment of the area to understand the issues and their root causes and for the development of the plan. This phase will provide an early-stage opportunity for engagement and feedback from stakeholders. The report will also map existing or planned plans, programs and projects that are potentially relevant to the IMP.

The report will:

- a. Define the boundaries of the planning area. In particular, experts will prepare a **GIS map** proposing the geographical area of reference for the IMP that should include the Damour basin, the underlying aquifers, the adjacent coastal area including the transitional waters and the marine area that is directly or indirectly affected by the water flow and the socio-economic activities in the Damour area.
- b. Provide a brief and preliminary assessment of the problems, issues, drivers, pressures, existing response and their effectiveness, risks along with their relative importance.
- c. Assess information/data requirements and availability for the development of the management plan, leading to the identification of information gaps and suggested approaches to address these gaps, including field work as needed to make key data available.
- d. Based on the above, and after agreement with GWP-Med, inform / amend the annotated Table of Contents of Damour IMP prepared by GWP-Med in collaboration with the other EPs

It is the experts' responsibility to obtain the data required for the preparation of the IMP. GWP-Med can enable this effort by facilitating communication with the institutions and stakeholders that hold the necessary information and data.

**2. Preparation of a governance analysis** using relevant OECD frameworks and methodologies to gain a thorough understanding of the enabling policy, institutional, legal and managerial framework related to the anthropogenic and natural environment in the Damour source to sea continuum and the natural resources therein, and the level to which this framework is effective. The results of the analysis will be used, among others, for the development of measures to be included in the IMP and inform the process for establishing a governance mechanism for planning in the Damour area. The aim is to ensure, that interventions are practical, consider the customary, local and National governance dynamics, and therefore have more chances to effectively accomplish their objectives at different levels (planning, implementation, monitoring, etc.).

**3. Development of the management plan including the development of:**

- a. **Diagnostic Analysis** based on the DPSIR framework to understand the key issues and their drivers and to build evidence and basis for the identification of policy, management and technical measures, with due consideration of socio-economic, and environmental/climate trends. The analysis might require surveys and field work by the experts to gather the data needed to accomplish this task and to ensure that its outputs are based on facts. While the experts will be responsible for collecting the needed data/information GWP-Med will enable communications with authorities to assist, if appropriate, with this process.
- b. **Preparation of a WEAP model related to the IMP for Damour area** to support decision-making through the provision of scenarios for environmental and water development and management strategies.

**c. Effective transfer of the data collected, and of the WEAP model to the relevant authorities.** This will include providing necessary technical training to enhance the authorities' capabilities for utilizing the information in the future.

**d. Development of the measures along with an action plan for implementing the IMP**

**e. Contribution to the multi-stakeholder consultation process.** As the steps leading to the preparation of the IMP involve a very intense consultation process with local and National stakeholders, the Consultant(s) will contribute through the following:

- Active participation and provision of expert input to **4 multi-stakeholder consultation events** that are planned to take place in the Damour area during the preparation of the IMP, as part of the Climagine facilitated participatory approach and in collaboration with all the EPs.
- Contribution to **bilateral consultations with key stakeholders at National and local level** in case considered essential for effective deliberations.

**f. Integration of inputs gathered during the multi-stakeholder consultation process** (see the point above) in the various documents drafted during the development of the IMP.

The Consultants are expected to use **Remote Sensing** as well as **Geographic Information Systems** to perform the necessary analysis and to spatially present and geo-reference information as necessary for the development of the IMP. The related files and respective database will be among the deliverables of the Consultants, along with the WEAP model's data and files.

#### 4. Reporting, Deliverables and Milestones

The Consultant(s) are expected to provide the following deliverables, which are directly related to the tasks outlined in detail under Section 3, based on the below timeline (expressed in months after the contract is signed). The schedule for submission may be adjusted as necessary during the contract preparation period. All deliverables should be submitted in English, unless otherwise specified.

Deliverables		Deadline / months after contract signature
1.	Inception Report/Scoping Report	2 months (English)
2.	Governance analysis	3 months (English)
3.	Diagnostic Analysis	8 months (English, including an Executive Summary in English and Arabic)
4	Preparation of a WEAP model related to the Damour River Basin and Coastal area	8 months
5.	Draft IMP including an Action Plan for its implementation	10 months (English)
6.	IMP incorporating comments from stakeholders and the EPs	12 months (English)

7.	<p>Report describing:</p> <ul style="list-style-type: none"> <li>- the transfer of the data collected and of the outputs from the modelling exercise to the relevant institutions</li> <li>- the capacity building activities carried out to empower the technical personnel of institutions to enable to uptake and use of the produced data/information</li> </ul>	12 months (English and Arabic)
8.	Presentations/inputs related to the findings from the above deliverables to be used during consultations	12 months To be developed at key stages to be agreed with the Consultant(s) (languages: English and/or Arabic)

5. Payment modalities

**Accomplishment of deliverables 1 and 2:** 20% of total contract amount

**Accomplishment of deliverable 3:** 30% of total contract amount

**Accomplishment of deliverables 4 and 5:** 20% of total contract amount

**Approval of final deliverables 6-7-8:** 30% of the total contract amount

6. Contract price and duration.

The maximum fee for this assignment is 100,000 USD. This amount includes all other costs, income taxes and any other amount payable or cost that may be required for the completion of the work/service, including VAT.

The overall duration of the contract will be for a maximum of **12 months** after contract signature. Payments will be made upon acceptance and verification of the related deliverables, as laid out in section 4 “Reporting, deliverables, and Milestones”.

7. Disqualification criteria ON/OFF

For details on the ON/OFF disqualification please refer to the Call for Offers

8. Selection Criteria (pass / fail)

Successful participant (Natural or Legal Person or Entity) must have:

- annual turnover for the last three financial years at least equivalent to the maximum amount of this call proven through Financial Statements (Income Statement and Balance Sheet) of the last three years duly certified by a Public Accountant, and with authentication of receiving by the Government’s Internal Revenue Authority. Include any indication of credit rating, industry rating, etc.
- be enrolled in one of the official professional or trade register kept in their country of registration
- minimum duration of operation of ten (10) years. Proof to be provided by the related chamber (date of registration).

- a record of minimum 3 projects over the last 10 years of comparable nature and degree of complexity relevant to those required for this Contract (please specify in which page(s) and section(s) of the Technical Offer these are included)

- a record of minimum 5 projects over the last 10 years showing the capability to produce GIS maps and use modelling tools (WEAP, etc.) required for the preparation of the specific Assessment ((please specify in which page(s) and section(s) of the Technical Offer these are included)

Failure to comply with the above pass / fail requirements and provide relevant proof with the application is considered ground for exclusion.

#### 9. Qualification and Experience

Participants in the call are required to have solid experience in developing and managing complex projects in the field related to the tasks described in the ToR.

This needs to be demonstrated in the Technical Offer to be submitted as part of the application. A template for the Technical Offer form is available in the Call for Offers.

The Technical Offer Form consists of the following sections:

- Section 1: Expertise and work experience
- Section 2: Approach and Methodology

#### **Regarding Section 1: Expertise and work experience:**

The scope of work requires an interdisciplinary team of skilled experts with previous experience in activities similar to those that this assignment entails. The required qualifications for all experts to be engaged in this assignment are presented in Table 1 below.

The inclusion of experts so as the team responds to every area of expertise defined in the table below is mandatory.

If the qualifications of an expert cover the requirements of more than one area of expertise, that expert can be also proposed for these other areas.

Qualifications additional to the minimum requested per category will receive additional score under the evaluation process as described in the section Evaluation Process and Awarding Criterion.

In addition, the Participant may propose -as they deem appropriate- additional experts covering other specific areas of expertise.

**Failure to provide the minimum required qualifications is considered ground for disqualification.**

**Important Note:**

The right column of Table 1 (Alignment with the criteria) is designed to assist applicants in preparing their Technical Offer by ensuring that all necessary information for each expert is supplied. This Table needs to be filled in Annex 2 “Technical Offer Form” for each expert and includes:

- On/Off criteria: Applicants must indicate Yes/No
- Evaluated (weighted %) criteria: Applicants must indicate the page(s) and section(s) in the page of their Technical Offer where evidence of each evaluated criterion for their proposed expert can be found.

Please note that the Required criteria are mandatory, while desired criteria are optional but can enhance the overall score.

**Table 1 – Required qualifications for the Team of Experts**

Expert #	Area of expertise	Qualifications	Alignment with the criteria: Select YES or NO for the on/off criteria AND indicate the Page in your offer, and section in the page(s), where the evaluated information is located.
1	<b>Water Resources Management expert / Team Leader</b>	A minimum of a Master’s degree (MSc or equivalent) in water resources management, or environmental engineering/management, or a directly related field ( <b>Required</b> ). <b>On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
		Excellent oral and written communication skills in both Arabic and English ( <b>Required</b> ). For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
		Minimum 10 years of professional experience in the field of water or environmental resources management ( <b>Required</b> ). <b>Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		A proven track record of developing a minimum of 1 management plans at River basin level ( <b>Required</b> ). <b>Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>

		Strong leadership skills with the ability to lead a team of experts and effectively manage project activities: Minimum, position as team leader for 2 projects of similar complexity over the last 10 years <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		A proven track record of minimum 2 successful assignments or projects in Lebanon that are directly relevant to water resources management is highly desired <b>(Desired). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
2	<b>Governance Expert</b>	University degree in Law, Political Sciences, International Relations, Water Resources, Environment or any other related field <b>(Required). On/Off</b>	<input type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>NO</b>
		Excellent oral and written communication skills in both Arabic and English <b>(Required)</b> . For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	<input type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>NO</b>
		Minimum 7 years of relevant professional working experience in the field of governance/analysis of policy, legal and institutional frameworks and settings <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		Minimum 2 assignments/projects relevant to water/environmental governance and policy <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
3	<b>Socio-Economic Expert</b>	University degree in Economics, Political Sciences, or any other related field <b>(Required). On/Off</b>	<input type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>NO</b>
		Excellent oral and written communication skills in both Arabic and English <b>(Required)</b> . For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	<input type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>NO</b>
		Minimum 7 years of relevant professional working experience in the field of socio-economic analysis <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		Minimum 2 assignments/projects relevant to socio-economic analysis in the environment and/or water sector <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
4	<b>Environment/pollution expert</b>	A minimum of a Master's degree (MSc or equivalent) in environmental engineering/management, or Chemistry or a directly related field <b>(Required). On/Off</b>	<input type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>NO</b>
		Excellent oral and written communication skills in Arabic and English <b>(Required)</b> . For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	<input type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>NO</b>



		Minimum 7 years of professional experience in the field of environmental policy including management of pollution related to solid and liquid waste as well as related to point and diffuse pollution in freshwater and marine bodies <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		Minimum 2 assignments/projects relevant to pollution assessment and prevention (from point and diffuse source of pollution) in water-related and other ecosystems <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		Experience related to pollution loads calculation in the framework of minimum 1 successful assignment <b>(Desired). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
5	<b>GIS Expert</b>	A University degree in water resources management, Hydrological modelling, Decision Support System and management, or a directly related field <b>(Required). On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
		Excellent oral and written communication skills in English <b>(Required). On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
		A minimum of 5 years professional experience in the field of Remote Sensing, GIS, Spatial Analysis and Modelling and their applications in water or environmental monitoring <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		A proven track record of a minimum of 3 successful assignments or projects that are directly relevant to water resources management using GIS, spatial analysis and modelling <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
6	<b>WEAP Expert</b>	A University degree in water resources management, Hydrological modelling, Decision Support System and management, or a directly related field <b>(Required). On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
		Excellent oral and written communication skills in English <b>(Required). On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
		At least 7 years of relevant professional experience in WEAP training and in developing WEAP models and Hydrological Modeling <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		A proven track record of minimum 3 successful assignments or projects that related to the design of WEAP models <b>(Required). Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
7		A University degree in Water Resources Management, Environmental Science, or Climate Change <b>(Required). On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO

	<b>Climate expert</b>	Excellent oral and written communication skills in Arabic and English ( <b>Required</b> ). For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
		Minimum 7 years of professional experience in the field of water or environmental resources management or climate change ( <b>Required</b> ). <b>Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		Minimum 2 assignments/projects relevant to climate change, water resources management ( <b>Required</b> ). <b>Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
8	<b>Geology expert</b>	A University degree in Geology, Hydrogeology, Earth Sciences or a directly related field ( <b>Required</b> ). <b>On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
		Excellent oral and written communication skills in Arabic and English ( <b>Required</b> ). For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
		Minimum 7 years of professional experience in the field of water or environmental resources management or climate change ( <b>Required</b> ). <b>Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>
		Minimum 2 assignments/projects in Lebanon relevant to climate change, coastal erosion, water resources management ( <b>Required</b> ). <b>Evaluated</b>	<b>Page(s):</b> <b>Section(s):</b>

**Table 1 – Weight of criteria – required and desired**

(1) Criterion	(2) Weighting (w)	(3) Points of criterion (c)	(4) Score= (2) x (3)
<b>Section 1: Expertise and work experience</b>	<b>80% of total</b>		
<b>Water Resources Management expert / Team Leader</b>	<b>15%</b>		
A minimum of a Master’s degree (MSc or equivalent) in water resources management, or environmental engineering/management, or a directly related field ( <b>Required</b> ). <b>On/Off</b>	On/Off		
Excellent oral and written communication skills in both Arabic and English ( <b>Required</b> ). For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	On/Off		

Minimum 10 years of professional experience in the field of water or environmental resources management <b>(Required)</b> . <b>Evaluated</b>	4%		
A proven track record of developing a minimum of 1 management plans at River basin level (Required). <b>(Required)</b> . <b>Evaluated</b>	4%		
Strong leadership skills with the ability to lead a team of experts and effectively manage project activities: Minimum position as team leader for 2 projects of similar complexity over the last 10 years <b>(Required)</b> <b>Evaluated</b>	4%		
A proven track record of minimum 2 successful assignments or projects in Lebanon that are directly relevant to water resources management is highly desired <b>(Desired)</b> <b>Evaluated</b>	3%		
<b>Governance Expert</b>	<b>9%</b>		
University degree in Law, Political Sciences, International Relations, Water Resources, Environment or any other related field <b>(Required)</b> . <b>On/Off</b>	On/Off		
Excellent oral and written communication skills in both Arabic and English <b>(Required)</b> . For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	On/Off		
Minimum 7 years of relevant professional working experience in the field of governance/analysis of policy, legal and institutional frameworks and settings <b>(Required)</b> . <b>Evaluated</b>	4%		
Minimum 2 assignments/projects relevant to water/environmental governance and policy <b>(Required)</b> . <b>Evaluated</b>	5%		
<b>Socio-economic Expert</b>	<b>9%</b>		
University degree in Economics, Political Sciences, or any other related field <b>(Required)</b> . <b>On/Off</b>	On/Off		
Excellent oral and written communication skills in both Arabic and English <b>(Required)</b> . For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	On/Off		
Minimum 7 years of relevant professional working experience in the field of socio-economic analysis <b>(Required)</b> . <b>Evaluated</b>	4%		
Minimum 2 assignments/projects relevant to socio-economic analysis in the environment and/or water sector <b>(Required)</b> . <b>Evaluated</b>	5%		
<b>Environment/pollution expert</b>	<b>11%</b>		
A minimum of a Master's degree (MSc or equivalent) in environmental engineering/management, or Chemistry or a directly related field <b>(Required)</b> . <b>On/Off</b>	On/Off		
Excellent oral and written communication skills in Arabic and English <b>(Required)</b> .	On/Off		

For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>			
Minimum 7 years of professional experience in the field of environmental policy including management of pollution related to solid and liquid waste as well as related to point and diffuse pollution in freshwater and marine bodies <b>(Required). Evaluated</b>	4%		
Minimum 2 assignments/projects relevant to pollution assessment and prevention (from point and diffuse source of pollution) in water-related and other ecosystems <b>(Required). Evaluated</b>	5%		
Experience related to pollution loads calculation in the framework of minimum 1 successful assignment <b>(Desired). Evaluated</b>	2%		
<b>GIS Expert</b>	<b>9%</b>		
A University degree in water resources management, Hydrological modelling, Decision Support System and management, or a directly related field <b>(Required). On/Off</b>	On/Off		
Excellent oral and written communication skills in English <b>(Required). On/Off</b>	On/Off		
A minimum of 5 years professional experience in the field of Remote Sensing, GIS, Spatial Analysis and Modelling and their applications in water or environmental monitoring, <b>(Required). Evaluated</b>	3%		
A proven track record of a minimum of 3 successful assignments or projects that are directly relevant to water resources management using GIS, spatial analysis and modelling <b>(Required). Evaluated</b>	6%		
<b>WEAP Expert</b>	<b>9%</b>		
A University degree in water resources management, Hydrological modelling, Decision Support System and management, or a directly related field <b>(Required). On/Off</b>	On/Off		
Excellent oral and written communication skills in English <b>(Required). On/Off</b>	On/Off		
At least 7 years of relevant professional experience in WEAP training and in developing WEAP models and Hydrological Modeling <b>(Required). Evaluated</b>	3%		
A proven track record of minimum 3 successful assignments or projects that related to the design of WEAP models <b>(Required). Evaluated</b>	6%		
<b>Climate expert</b>	<b>9%</b>		
A University degree in Water Resources Management, Environmental Science, or Climate Change <b>(Required). On/Off</b>	On/Off		
Excellent oral and written communication skills in Arabic and English <b>(Required).</b> For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	On/Off		

Minimum 7 years of professional experience in the field of water or environmental resources management or climate change <b>(Required). Evaluated</b>	4%		
Minimum 2 assignments/projects relevant to climate change, water resources management <b>(Required). Evaluated</b>	5%		
<b>Geology expert</b>	<b>9%</b>		
A University degree in Geology, Hydrogeology, Earth Sciences or a directly related field <b>(Required). On/Off</b>	On/Off		
Excellent oral and written communication skills in Arabic and English <b>(Required)</b> . For the spoken Arabic it is preferable that the candidate speaks Levantine Arabic. <b>On/Off</b>	On/Off		
Minimum 7 years of professional experience in the field of water or environmental resources management or climate change <b>(Required). Evaluated</b>	4%		
Minimum 2 assignments/projects in Lebanon relevant to climate change, coastal erosion, water resources management <b>(Required). Evaluated</b>	5%		
<b>Section 2: Approach and Methodology</b>	<b>20% of total</b>		
The approach to the requested Assignment will include a detailed description of the methodology to achieve all objectives and tasks, deliver all outputs as described in the Terms of Reference, and consider the appropriateness to local conditions. <b>(Required)</b> .	15%		
Risks and Mitigation Measures: description of the potential risks associated with the implementation of the Assignment, which have the potential to hinder the successful achievement and timely completion of anticipated outcomes, as well as compromise their quality. This will also entail a description of the counteractive measures that will be implemented to mitigate these risks. <b>(Required)</b> .	5%		

**Failure to provide the minimum required qualifications for the on/off and the evaluated criteria is considered ground for disqualification.**

**Scoring** for each evaluated criterion will be made as following:

**Section 1 – Expertise and work experience:** score starts at 100 points (when minimum requirements are met) and can reach 150 points depending on the description of the participant and the number of projects implemented in excess of those required as a minimum. (100p Base +10p for extra criteria over base up to 50 additional points)

**Section 2 – Approach and Methodology:** score starts at 100 points and can reach 150 points depending on the length, detail, depth, and structure of the information provided.

Each Section/evaluation criterion is evaluated autonomously. The final scoring of each evaluation criterion is the outcome of its scoring multiplied by the corresponding weighting factor. The overall score of the technical offer is the sum of the final scoring of all the Sections/evaluation criteria.

The overall score of the technical offer is calculated on the basis of the following formula:

$$B_i = w_1 \times c_1 + w_2 \times c_2 + \dots$$

For the overall score which will determine the ranking of offers, technical evaluation will be weighted with 80%, and the financial offer with 20%.

The final listing of the most advantageous offers will be made on the basis of the following formula:

$$\Lambda_i = 0.8 * (B_i/B_{max}) + 0.2 * (K_{min}/K_i).$$

Where:

- Bmax: the max score received by the best of the technical offers received
- Bi: the score of the technical offer
- Kmin: The cost of the financial offer with the minimum price offered.
- Ki: The cost of the financial offer

The most advantageous offers is the one with the greater value of  $\Lambda$ .

In case of equality of overall scores, the winning proposal is the one whose corresponding technical proposal received the highest rating.

## 10. Monitoring and Progress Controls

Mr. Dimitris Faloutsos, Deputy Regional Coordinator and Ms. Barbara Tomassini, Senior Programme Officer at GWP-Med, will be providing oversight and guidance from the side of the Project Team.

Coordination meetings between the consultant and the Project Team shall be scheduled on a bi-weekly basis in order to effectively monitor the progress pertaining to the workplan that was submitted with the Inception Report. The rendering of services shall be executed, and completion thereof shall be determined, upon the satisfaction and approval of the deliverables by the Project Manager and GWP-Med Executive Secretary.

## 11. Place of Performance

The tasks will be carried out from a place of the Consultant's preference. Missions for the consolidation of data (verification missions) and for consultation purposes will be conducted (all in Lebanon).

### 1. *Terms and Conditions*

- **Language**

The language of the key deliverables/outputs is English. Specific materials and communication packages will also be prepared in Arabic, as previously described.

- **Data and information**

The Consultant(s) is responsible to collect all information and data necessary for the completion of this assignment. Missing information (from any side) would not be considered as eligible reason for not completing the tasks. GWP-Med can assist in communicating with relevant institutions and stakeholders to verify the availability of needed data or information.

- **Submission of data, reports and other material produced**

All primary data, reports, and other documentation produced during this assignment shall be made available to GWP-Med and to the relevant institutions in electronic format. All data acquired, and products developed during the assignment will be in the ownership of the Project and cannot be used by the Consultant and its team without prior written permission.

- **Cooperation requirements**

The Consultant is expected to work closely with GWP-Med and the beneficiaries (visited during the consultation missions).

- **Review and quality assurance**

A thorough evaluation of the Consultant's work conducted during the course of the assignment implementation, as well as a comprehensive review of the deliverables, may be conducted by an independent external expert or team of experts. The Consultant is expected to thoroughly consider and incorporate any relevant observations or recommendations provided by the reviewer(s) into the final versions of the deliverables.

- **Public consultations / meetings**

The responsibility for organizing any required workshops or working meetings will be shared between the Consultant(s) and the Project Team. The Consultant(s) shall be responsible for: preparation of working material, technical specifications etc. ensuring participation of the key team members as required, preparation of minutes etc. The Project Team will be responsible for: preparation of agenda, invitations, distributing the invitations and enabling participation.

## Annex I

### Integrated Management Plan for the Damour area - Draft Table of Contents

# Damour Integrated Management Plan<sup>2</sup>

## TABLE OF CONTENTS

### Part A: The management plan

1. Introduction
2. Defining the boundaries of the planning area
3. Summary of the components and characteristics of the natural and anthropogenic environment and processes
- 3 Description of the key flows
- 4 Results of Stakeholders Analysis and Stakeholders Consultations
- 5 Issues and problems, their drivers and causes
  - 5.1 Priority Problems/issues
  - 5.2 Causal Chain Analysis (reference to Pressures, State, environmental Impacts and socio-economic consequences, Drivers and underlying causes)
- 6 Responses
- 7 Action Plan

*SUMMARY VERSION OF THE PLAN (separate document)*

*Max 10 pages, with glossy print edition, high quality illustrations and attractive form*

*ATLAS OF MAPS (separate document) Each issue to be presented in the GIS form.*

### Part B: Baseline information

1. The study area
  - 1.1. Social characteristics
    - 1.1.1. Regional and local administration
    - 1.1.2. Demography Population Change /Age and Gender Structure
    - 1.1.3. Spatial Planning
    - 1.1.4. Utilities
  - 1.2. ECONOMIC CHARACTERISTICS
    - 1.2.1. Economic characteristics
    - 1.2.2. Agriculture, including fisheries
    - 1.2.3. Tourism
    - 1.2.4. Industry
    - 1.2.5. Marine area activities

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<sup>2</sup> The management plan follows the source-to-sea approach and covers its catchment and aquifers, the coastal area, the marine area influenced by the freshwater flows, and the natural resources contained therein.



2. Natural Environment and Resources
  - 2.1 Biodiversity and protected areas
    - 2.1.1 Bio-geographic characteristics
    - 2.1.2 Habitats
      - 2.1.2.1 Terrestrial habitats
      - 2.1.2.2 Key freshwater, wetland and brackish ecosystems/habitats
      - 2.1.2.3 Marine ecosystems/habitats
    - 2.1.3 Species
      - 2.1.3.1 Fish
      - 2.1.3.2 Birds
      - 2.1.3.3 Amphibians and Reptiles
      - 2.1.3.4 Mammals
    - 2.1.4 Ecosystem Services
    - 2.1.5 Protected areas
  - 2.2 Hydrology
    - 2.2.1 Surface water monitoring
  - 2.3 Hydrogeology
    - 2.3.1 Hydrogeological Units
    - 2.3.2 Groundwater monitoring
    - 2.3.3 Salinization of coastal aquifers
  - 2.4 Coastal / marine area
    - 2.4.1 Marine monitoring
  - 2.5 Delineation of water bodies
    - 2.5.1 Surface water bodies
    - 2.5.2 Groundwater bodies
    - 2.5.3 Coastal Water Bodies
  - 2.6 Water Budget
- 3 Major issues and problems to the natural environment
  - 3.1 Climate change
  - 3.2 Hydro-morphological issues
    - 3.2.1 Floods and droughts
  - 3.3 Coastal (marine) erosion
  - 3.4 Pollution
    - 3.4.1 Estimation of point source and diffuse pollution loads
  - 3.5 Groundwater Hazard and Risk
    - 3.5.1 Vulnerability of groundwater
  - 3.6 Status of the surface and underground water bodies
    - 3.6.1 Assessment of the status of coastal /marine waters and area
  - 3.7 Socio-economic and developmental challenges
    - 3.7.1 Municipal infrastructure and technical systems
      - 3.7.1.1 Wastewater
      - 3.7.1.2 Waste management
      - 3.7.1.3 Transport system
    - 3.7.2 Agriculture

- 3.7.3 Tourism
- 3.7.4 Activities in the marine area
- 3.7.5 Other economic activities

3.8 Overall

- 4 INSTITUTIONAL AND LEGISLATIVE FRAMEWORK PER COUNTRY
  - 4.1 Legal framework
  - 4.2 Institutional Framework
  - 4.3 Management framework
- 5 References
- 6 Annex

EXPERTISE NEEDED

TOPIC	PARTNER	SHARE
• Water expert (surface)	GWP-Med	100%
• ICZM expert	PAP/RAC	100%
• Groundwater/coastal aquifers expert	UNESCO -IHP	100%
• Spatial planner	PAP/RAC	100%
• Biologist (land and marine)	PAP/RAC	100%
• Governance expert	GWP-Med	100%
• Socio-economic expert	GWP-Med	100%
• GIS specialist	GWP-Med - PAP/RAC	PAP/RAC (for the coastal area and suitability analysis for the whole area), the rest GWP-Med
• Environmental sciences (pollution/waste)	GWP-Med	100%
• Climate change expert	GWP-Med – PAP/RAC (for the coastal area)	PAP/RAC (for the coastal area), the rest GWP-Med
• Geologist	GWP-Med	100%
• Participatory approaches expert: Indicators of sustainability and prioritization (all issues where priorities are to be decided (fully or	BP/RAC	100%

partly) by stakeholders), based on the Climagine approach		
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EP= Executing Partners

Key experts = water expert + aquifers expert + iczm expert

## **Annotated list of maps**

Maps (the list is not exhaustive)

1. Administrative division including settlements
2. Protected areas
3. Habitat map (different types of vegetation covers, migration areas, Important bird areas etc).
4. River system with its main physical characteristics (in-takes, discharges, etc., current and planned) and pressures/hazards (e.g. flooding, erosion, etc.)
5. Pressures / hazards in terms of pollution
6. Geological and Hydrogeological map with any available relevant information (hydraulic conductivities measurements, location of faults, number and location of springs/boreholes, etc.)
7. Topographic map of the basin (digital elevation model, contour lines, elevation, municipalities etc.)
8. Recent land use and land cover change map of the study area
9. Type and extent of agricultural areas
10. Wastewater treatment plants (location - geo-referenced) in the study area
11. Industries (location - geo-referenced), indicating the type of each one in the study area
12. Potential pollution source (location - geo-referenced), indicating the type of each one in the study area
13. Hydro-morphological interventions (current and planned)
14. Water abstractions in the study basin. Any known water abstractions through pumping stations, boreholes and dams for drinking, irrigation and industrial uses (if possible monthly data)
15. Monitoring stations (water quality and quantity, meteorological)