



INDIVIDUAL CONSULTANT PROCUREMENT NOTICE

Date: 19 July 2021

Reference Number: IC-2021-104

Country:	Republic of Kazakhstan
Description of the assignment:	National expert to assess the influence of climate change on the Ili-Balkhash basin.
Project name:	#00106780 Development of the Kazakhstan's Eighth National Communication and Preparation of Two (Fourth and Fifth) Biennial Reports to the UNFCCC
Period of assignment/services:	September 2021 – January 2022 (70 working days)
Contract Modality:	Individual contractor (IC)

Any request for clarification must be sent by standard electronic communication to the e-mail nurlan.tleubayev@undp.org and in e-mail subject please indicate **Request_Ref.2021-104**.

1. BACKGROUND

Water is one of the most important elements for human life, and water resources are one of the major drivers of the country's economy. The issue of water shortage has long been recognized all over the world and is being actively studied, especially in the light of climate change and ensuring country's security.

An important point to mention here is that more than 50% of Kazakhstan's total water resources originate outside the country, including the largest rivers of Kazakhstan: the Ural, Irtysh, Syrdarya and Ili originate or partly flow in other states. Meanwhile, those originating in Kazakhstan are mostly small. Climate change also significantly changes the volume of water resources.

The Ili-Balkhash basin and Zhetysu region, to which the basin belongs, play a crucial role in the development of the country's southeastern region. The natural landscapes, formed by the rivers and Lake Balkhash, are a national treasure and home to a variety of flora and fauna, including endemic ones. The region also plays a very significant economic role. The Ili River, which feeds Lake Balkhash, is transboundary (China-Kazakhstan), so economic activities on the river are carried out by both countries. For Kazakhstan, the biggest problem is, apparently, irrational water consumption, while China is actively withdrawing water for industrial and agricultural needs, which threatens the entire region and Lake Balkhash. The rest of the watercourses feeding Balkhash are rivers that begin in the glaciers of the Zailiyskiy Alatau and depend on climatic conditions, which will continue to be affected by global warming and glacier degradation.

Considering the above, it is necessary to assess the impact of climate change on water resources in the Ili-Balkhash region and assess the threats.

2. SCOPE OF WORK, RESPONSIBILITIES AND DESCRIPTION OF THE PROPOSED ANALYTICAL WORK

Objective:

Assess the impact of climate change on the Ili-Balkhash basin, assess the threats to the region and prepare a summary for journalists and decision makers from relevant ministries and departments

Specific tasks:

The Expert shall perform the following tasks:

Stage 1: Climate.

1. Prepare an analytical report: Climatic features of air temperature and precipitation distribution in the Ili-Balkhash basin;
2. Study fluctuations in average monthly air temperature and precipitation;
3. Model changes in air temperature and precipitation patterns:
 - a. according to the intermediate climate change scenario (RCP 4.5);
 - b. according to the “worst-case” scenario (RCP 8.5);
4. Study how winters with heavy snow and little snow are formed.

Stage 2: Balkhash.

1. Prepare a report: Lake Balkhash. General information. Peculiarities of its geographical location and economic importance, indicating region’s value for the economy and environmental protection;
2. Analyze and select existing methods for calculating the water balance and identify the main water balance components for Lake Balkhash;
3. Study the inflow of surface waters into Lake Balkhash and the main sources feeding it
4. Determine water input from precipitation;
5. Determine methodology and calculate water evaporation from the water surface;
6. Determine the change in water volume caused by wind-induced setups/setdowns;
7. Study changes in the main water balance components of Lake Balkhash under the influence of climate change.

Stage 3: Ili and other important rivers feeding Lake Balkhash

1. Forecast the river’s runoff using the HBV hydrology model, including calibrate model parameters to the conditions of the Balkhash basin;
2. Long-term river flow modeling:
 - a. according to the intermediate climate change scenario (RCP 4.5);
 - b. according to the “worst-case” scenario (RCP 8.5);

Stage 4: Recommendations.

1. Conduct a comparative statistical analysis of water consumption and water losses in Kazakhstan and other countries in similar conditions;
2. Develop recommendations for decision makers;
3. Create a summary for journalists;
4. Prepare at least 4 draft articles for a wide range of readers (one per stage)

For detailed information, please refer to the Term of Reference (Annex 1)

3. REQUIREMENTS FOR EXPERIENCE AND QUALIFICATIONS

- A degree in Geography or Environmental Science;
- Experience of at least 5 years doing research work on the topic;
- Experience of working with hydrology models (at least 3 years);
- Experience in assessing hydrological data and the impact of climate change and other factors on hydrological resources (at least 3 years);
- Computer skills and skills in data processing tools;
- Experience of working under similar research projects with international organizations; working for the UNDP is considered an advantage;
- Excellent proficiency in Russian;

4. DOCUMENTS TO BE INCLUDED WHEN SUBMITTING THE PROPOSALS

The following PDF documents must be attached to the Proposal (maximum size 25 MB per email) and must be sent to procurement.kz@undp.org with **Ref.2021-104** in the subject line no later than **18:00 (time of Nur-Sultan, GMT + 6) August 03, 2021:**

- a) Properly completed Attachment 4 "Bidder Letter to UNDP Confirming Interest and Availability for the Individual Contractor" and Attachment 5 "Cost Breakdown Confirming Final Full Price" using the provided UNDP template; These documents must be submitted separately from other required documents below;
- b) A detailed resume, which should indicate previous experience in similar projects, as well as contact details (email address and telephone number) of the Applicant, and confirmation of required skills;
- c) Other documents confirming work experience, expertise, education and skills (**diploma**, certificates of professional development, awards, etc.).
- d) A short essay on why Applicant considers himself/herself the most suitable for the job (1000 characters maximum).

5. FINANCIAL PROPOSAL

This contract is in the national currency tenge with a lump sum of payments for each completed output. The quotation must include all expenses of the expert, any other relevant expenses for the task and necessary to obtain the above outputs.

Payment will be made after the approval of interim reports, based on the above outputs by the UNDP Head of Governance Unit and National commission and signing of the certificate of completion for each output by the UNDP program officer.

The contract price will be fixed regardless of changes in cost components.

6. EVALUATION

Individual consultants will be evaluated based on **Combined Scoring method** – where the qualifications and methodology will be weighted a max. of 70%, and combined with the price offer which will be weighted a max of 30%:

- Step I: **Preliminary evaluation** of offers (ONLY fully and timely submitted applications with all required documentation (CV, Annex-4 and Annex-5, diploma, brief essay) would be considered for evaluation of the minimum criteria;
- Step II: **Technical Evaluation** = maximum 700 points, which consists of technical scoring of qualifications and experience;
- Step III: **Financial Evaluation** = 300 points.

Step II: Technical Evaluation – 70%:

UNDP will conduct a desk review to technically evaluate the candidates who passed Preliminary evaluation. Only candidates obtaining a minimum of 490 points of the maximum obtainable points for the technical criteria (700 points) shall be considered for financial Evaluation.

Technical scoring of qualifications and experience – maximum 700 points:

Criteria	Maximum points	Assessment (points)
A degree in Geography or Environmental Science;	70	Bachelor = 49 Master = 60 PhD = 70
Experience of at least 5 years doing research work on the topic;	140	Less than 5 years = 0 5-7 years = 98

		7-9 years = 110 More than 9 years = 140
Experience of working with hydrology models (at least 3 years);	140	Less than 3 years = 0 3 - 5 years = 98 From 5 to 7 years 110 7 years or more = 140
Experience in assessing hydrological data and the impact of climate change and other factors on hydrological resources (at least 3 years);	140	Less than 3 years = 0 3 - 5 years = 98 From 5 to 7 years 110 7 years or more = 140
Computer skills and skills in data processing tools;	70	Relevant experience = 70 No experience = 0
Experience of working under similar research projects with international organizations;	70	Knowledge available =70 No knowledge =0
Excellent proficiency in Russian;	70	Skills available =70 No skills =0
TOTAL	700	

Step IV: Financial evaluation – 30% = 300 points:

The following formula will be used to evaluate financial proposal:

Lowest priced proposal*300 points/price of the proposal being evaluated.

The award of the contract shall be made to the individual consultant whose offer has been evaluated and determined as (a) responsive/compliant/acceptable and (b) having the highest score out of the set of weighted criteria: technical (70%) and financial (30%).

APPROVED BY:**Zhanat Tileumuratova**

Procurement Associate

Signature:

*Zhanat Tileumuratova***ANNEXES****ANNEX 1- TERMS OF REFERENCES (TOR)****ANNEX 2- INDIVIDUAL CONSULTANT GENERAL TERMS AND CONDITIONS****ANNEX 3- INDIVIDUAL CONTRACT TEMPLATE****ANNEX 4 & 5- OFFEROR'S LETTER TO UNDP/CONFIRMATION OF INTEREST AND FINANCIAL PROPOSAL FORM**