



Environmental Protection of International River Basins Project

Contract No. 2011/279-666



This project is funded by
The European Union

A project implemented by a Consortium
led by Hulla & Co. Human Dynamics KG

Terms of Reference

Water resource use studies in selected transboundary tributaries (Zayamchay and Goshgarchay) in the pilot basin combining IWRM and WFD objectives through establishment of environmental flows and EQOs

I. Background and Objectives

The consultant will assist Human Dynamics to fulfil its requirements under the EU technical assistance contract 'Environmental Protection of International River Basins (EPIRB)' (Terms of Reference given in Annex 1). The overall objectives of the EPIRB project are:

- To improve availability and quality of data on the ecological, chemical, and hydro-morphological status of trans-boundary river basins including groundwater; and
- To develop River Basin Management Plans for selected river basins / sub-river basins according to the requirements of the WFD.

The project is being implemented in six countries (Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine) and five pilot river basins:

- Akhurian Basin District (Armenia),
- Central Kura (Azerbaijan),
- Upper Dnieper Basin (Belarus, Ukraine),
- Chorokhi-Adjaristskali Basin (Georgia),
- Prut Basin (Moldova, Ukraine)

As part of the River Basin Management Plan development process the project will implement selected number of improvement measures from the overall Programme of Measures (PoM), as defined under the Water Framework Directive. The selected measures have been agreed with the beneficiaries in each country and will be executed in accordance with the EC contractual conditions. In the Republic of Azerbaijan the following measures have been chosen:

- Assistance to preparing secondary legislation in support of the Water Code to introduce the concept and principles of IWRM and approximation and application of the WFD and UWWTD.
- Water resource studies in selected transboundary tributaries in the pilot basin demonstrating IWRM and WFD concepts and objectives.

- Investigative monitoring in the upper Kura basin to establish a pollution baseline. The Upper Kura is a complex basin with many problems (point source and diffuse pollution) which cannot all be fully investigated under the project supported gap filling Joint Field Surveys. The proposed pilot will fill key knowledge gaps and strengthen and help prioritise the RBMP.

The following Terms of Reference are to assist the Government of Azerbaijan in Water resource use studies in selected transboundary tributaries (Zayamchay and Goshgarchay) in the pilot basin combining IWRM and WFD objectives through establishment of environmental flows and EQOs. The final product will be detailed water resource/RBMP plans.

II. Scope of Works

The State Commission of the Republic of Azerbaijan on EU Integration is responsible for implementation of all activities related to approximation of Azerbaijan legislation into EU legislation, including water legislation including the Water Framework Directive according to the Action Plan signed between Azerbaijan and European Union in 2006. Azerbaijan is committed to this process and is seeking to establish strong legal and institutional frameworks to deliver its objectives.

The concept of Integrated Water Resources Management is reflected in Water Code of the Republic of Azerbaijan. Mentioned two rivers located in project pilot region aren't included to the list of selected rivers for which RBMPs are been developed by EPIRB project. Therefore in this pilot project more detailed analyses of water uses, pressures and impacts in Zayamchay and Goshgarchay rivers basins will be carried and also there will be combining IWRM and WFD objectives through establishment of environmental flows and EQOs. The final product will be detailed water resource/RBMP plans.

The project beneficiaries and stakeholders who will need to be consulted during implementation of this project include:

- Ministry of Ecology and Natural Resources
- State Water Resources Agency, under the Ministry of Emergency Situations
- National Environmental Monitoring Department, under the Ministry of Ecology and Natural Resources
- National Hydro-meteorology Department, under the Ministry of Ecology and Natural Resources
- Hydro-geological Expedition, under the Ministry of Ecology and Natural resources
- Azerbaijan Amelioration and Water Farm OJSC
- Azersu JSC on Drinking Water Supply and Sanitation
- Water users in the pilot areas
- All other stakeholders and general public of Zayamchay and Goshgarchay river basins.

The project is divided into six phases:

1. Collection and collation of information and data on state of water resources of the river, water users, impacts on the surface and groundwater bodies relating to anthropogenic pressures (hydromorphological alterations, point/diffuse source pollution, from agriculture/irrigation, mining, industry, wastewater, energy generation, pollution by hazardous substance etc.) at the water body level.
2. Assessment of water demand and supply
3. Assessment of ecological flow and establishment of environmental objectives

4. Economic analyses
5. Develop programmer of measures , including preparation of proposal on construction of water reservoir near river to regulate water resources
6. Development of IWRMP for Zayamchay and Goshgarchay rivers

III. Reporting, Deliverables and Programme

The contractor shall report to Timothy Turner, the project team leader, regarding overall deliverables and to Rafiq, Verdiyev, the Country Water Management Expert, for all day-to-day management issues. The contract is anticipated to commence on 1 September 2015 and have duration of 6 months, with a completion date of 29 February 2016.

The contractor shall produce the following reports and documents:

- Deliverable 1 - Inception report – due date 17 September 2015
- Deliverable 2 - Report on state of water resources of the river, water users, impacts on the surface and groundwater bodies relating to anthropogenic pressures (hydromorphological alterations, point/diffuse source pollution, from agriculture/irrigation, mining, industry, wastewater, energy generation, pollution by hazardous substance etc.) at the water body level, on results of assessment of water demand, water supply and ecological flow and on established environmental objectives and economic analyses - 31 October 2015
- Deliverable 3 - Develop programmer of measures , including preparation of proposal on construction of water reservoir near river to regulate water resources -31 December 2015
- Deliverable 4 - Development of IWRMP for Zayamchay and Goshgarchay rivers and a Final report– 29 February 2016

In developing the above reports and documents the contractor will work closely with Ministry and authorities in pilot region.

The contractor will prepare the inception report within the first 20 days which will include:

- appreciation of the scope of the works;
- methodology and internal consultation process
- detailed project programme and deliverable dates
- staff profiles

The documents shall be prepared in both the Azeri and English languages. The contractor shall report quarterly on progress to Human Dynamics and the Ministry.

IV. Remuneration and payment schedule

The contractor will receive a lump-sum of **19,500 euros** for the above services to be paid in four tranches. The first tranche of 3,000 euros to be paid on approval of Deliverable 1: the inception report, the second of 6,500 euros on delivery and approval of Deliverables 2: the report on status of water resources and their use and supply, the third of 5,000 euros on approval of Deliverable 3 the programme of measures and the fourth of 5,000 euros on submission and acceptance by the TL of Deliverable 4: IWRMP for Zayamchay and Goshgarchay rivers. The final report will summarise the work undertaken and identify where necessary lessons learnt and next steps.