

Raniganj Girl's College

Kazi Nazrul University

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Subject: EVS

Topic: Project work in maintenance  
of surface water quality

## **Raniganj Girls' College**

**Course Name: Environment Studies**

**Course Code: AEE101**

**Topic of the project: Different aspects of Air, Soil, Water, Noise pollution**

### **A Project Report**

**Submitted by Semester-I students (Academic Year 2021-22)**

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## CERTIFICATE

This is to certify that this project titled “Different aspects of Air, Soil, Water, Noise pollution” submitted by the students for the award of degree of B.A. Honours/ Program is a bonafide record of work carried out under my guidance and supervision.

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Signature of the supervisor with designation and department

# Proposed System Of Surface Water Quality Standards For Moldova:

Introduction: - The protection of water resources is one of the key priorities established in the concept of the Environmental policy of the Republic of Moldova (2001), which also calls for the "revision of existing laws and regulations, convergence with European norms, and adjustment or elaboration of necessary mechanisms for their implementation." The same orientation is expressed in the EU-Moldova Action Plan which was signed in 2005.

Moldova is party to the Danube River protection convention (1994) and a subsequent inter-governmental agreement with neighbouring Romania (1997) which emphasises the harmonisation of legislation and technical standards in the water sector.

These commitments give an adopted by Romania.

Moldova's existing system of surface water quality standards is comprehensive and ambitious, covering hundreds of pollutants and mandating very low concentrations of contaminants. To date, some reform of the system has been carried out but it is still based primarily on the approach established under the Soviet Union.

Some practical work has already been undertaken in Moldova over the last few years to support convergence with EU environmental legislation in the water sector. In particular, the Moldova subproject of the TACIS project "Support for the implementation of Environmental Policies and NEAPs in the NIS" (2002-2003) used a surface water quality classification scheme for Moldova and discussed legal and institutional issues of reforming the water system, setting the stage for further work.

However, the EU norms should be adapted, as appropriate, to the local conditions (e.g. with respect to the particularities of the natural ~~and~~ environmental and the monitoring capacity). The project will be carried out <sup>between</sup> April 2006 and June 2007 and is divided phases,

The preparation of this Technical report constitutes the first phase of project. This report seeks to describe and justify a proposal for a new system of surface water quality standards (SWQS) and discuss it in a series of stakeholder workshops in Moldova.

In phase 2, the proposal new SWQS system will be tested through two pilot projects on locations where specific water bodies (or distinct parts thereof) will be tested through two pilot projects on locations stakeholder dialogue, a water quality objective for each of them based on environmental and socio-economic criteria; and (2) illustrate the pilot projects will be produced.

on the project's third phase, a draft Policy Report will be prepared on the basis of Technical report, incorporating the pilot projects will be produced.

① proposals for amendments of moldova's environment water primary and secondary legislation.

② proposals for possible adjustments of institutional responsibilities and procedures.

③ Description of linkages to necessary reforms of related policy instruments (permilling, compliance assurance, economic instruments).

④ Implementation plan for the new sewer system.

## Purpose and outline of the report

The purpose of this report is to analyse the current moldovan system of surface water quality standards and develop a proposal for an improved system, using relevant EU Directives as a benchmark and considering moldova's obligations under various international agreements. This new swas system will comprise three principal components:

- ① a use - base hierarchical (IE, ranked in order of decreasing water quality) classification of water bodies;
- ② a list of water pollution parameters to be regulated, consistent with the existing monitoring capacity; and
- ③ numerical values of water quality standards for each class water quality.



Chapter 2 describes the regulatory basis and standards for a system of swas currently in place in moldova. Chapter 3 contains an overview of systems of swas in the EU and moldova's neighbouring countries, romania and ukraine. With convergence with EU regulations being an important underlying driving factor, the EU Directives dealing with surface water qualations being an important underlying moldova's major rivers (the prut, the driester and a small section of the danube) are all trans-boundary, the major features of swass in place in romania and ukraine, the classification scheme used by the international commission for the protection of the danube river (ICDDR), and guidance from the UN economic commission for Europe (UNECE) are also presented. In chapter 4, moldova's existing system of water quality standards is assessed and compared with the respective EU system. Chapter 5 contains the actual proposal for a new system of swass for moldova. Besides presenting the system as such, the chapter discusses the considerations underlying the proposal and gives a brief overview of some of the possible consequences of introducing the proposed system. The latter is an important subject for

## Stakeholder Consultations on the draft report

The first draft technical report was released in September 2006 and disseminated among various stakeholders. It was presented and discussed during a series of sessions.

① a stakeholder workshop in Chisinau on 18 October 2006;

② consultation sessions with representatives of Hydromet, a par-conal association, Apele moldovei A quaproject, and the Institute for Ecology and Geography (1 November 2006), as well as the National Centre of Preventive Medicine (10 November 2006); and

③ meetings organised on the framework of preparation of the pilot projects, with representatives of the Cruteni and Calarasi.

## overview of the current system of

## Surface water quality standards in Moldova.

This chapter provides a general overview of Moldova's laws and regulations that contain either actual surface water quality standards or rules that are directly related to them. An exhaustive overview and review of Moldova's water management regulations is outside the scope of this report. It should also be noted that effluent standards are not a subject of this report.

## Overview of relevant laws and regulations

The basic principle of the concept of national water policy adopted by the parliament in 2003 is an integrated approach to the management of surface water.

With respect to water quality requirements for the different water uses, the concept mentions the need to apply requirements of international conventions, and EU directives while maintaining the country-specific characteristics of and approaches to aquatic ecosystems, including vulnerable aquatic species.

The two major pieces of legislation relevant in the context of current surface water quality standards are:

- ① the law on environmental protection of 1993 (amended in 1998), and
- ② the water code of 1993 (amended in 2003)

Both are framework laws formulating only major principles and mechanisms for surface water management. The law on environmental protection stipulates requirements that are mainly applicable to pollution sources, including a ban for discharges of untreated wastewater to a surface water body.

## Acknowledgement

Working in the center for composite material was interesting. During these six months of internship, I learnt a lot on composite science, especially on composite manufacturing processes like

I have to thank \_\_\_\_\_ for advising me during this project.