

## **ACT OF COMPLETED WORKS**

**Subject:** AP26194613

“Legal Issues of Ensuring Environmental Safety in the Context of Innovative Modernization of Agricultural Production in the Republic of Kazakhstan”

Within the framework of the conducted research work, a comprehensive analysis of the theoretical foundations of legal support for environmental safety in the context of innovative modernization of agricultural production in the Republic of Kazakhstan was carried out. The evolution, key principles, and institutional mechanisms of legal regulation in this field were identified, as well as the main directions for their improvement. The theoretical content of environmental safety was examined, its essence and key conceptual approaches forming the categorical framework of environmental law were revealed. The study analyzed the interrelation between national and international legal norms aimed at ensuring the environmental sustainability of the agricultural sector, as well as the environmental and legal consequences of introducing innovative technologies into agricultural production. Special attention was paid to scientific approaches that contribute to increasing the effectiveness of legal mechanisms of environmental regulation.

An analysis of the current legislation of the Republic of Kazakhstan defining environmental requirements for agricultural production was conducted. Gaps, contradictions, and inconsistencies in the regulatory framework affecting the implementation of sustainable development principles and the introduction of innovative technologies were identified. The research covers legal regulation of the use of pesticides, agrochemicals, land and water resources, as well as issues related to the introduction of environmentally safe technologies in the agricultural sector.

In the course of the research, the following aspects were comprehensively analyzed:

- compliance of environmental requirements with innovative processes in agricultural production;
- consistency and effectiveness of legal norms;
- degree of application of environmental regulation mechanisms;
- problems of law enforcement practice.

Based on a comparative analysis of the provisions of the Environmental Code of the Republic of Kazakhstan, land, water, and agricultural legislation, legal gaps, conflicts, and problematic aspects of legal regulation were identified. A draft Law of the Republic of Kazakhstan “On Amendments and Additions to the Environmental Code of the Republic of Kazakhstan” was prepared, aimed at reducing environmental risks, increasing the responsibility of agricultural producers, and improving the effectiveness of environmental legal regulation in the context of innovative modernization.

The research results were discussed at international scientific conferences and reflected in the following publications:

1. Yelikbai M.A., Yesenaliev A.E., Algaziyev M.D.  
*Problems of Legal Regulation of Environmental Safety in the Process of Innovative Modernization of Agriculture in the Republic of Kazakhstan* // Proceedings of the XII International Conference “Industrial Technologies and Engineering” (ICITE–2025). Vol. IV. 2025. pp. 41–43.
2. Poshanov N.N., Akshatayeva Zh.B.  
*Theoretical and Normative Foundations of Legal Support for Environmental Safety in the Context of Innovative Modernization of Agricultural Production in the Republic of Kazakhstan* // Proceedings of the XII International Conference “Industrial Technologies and Engineering” (ICITE–2025). Vol. IV. 2025.
3. Akshatayeva Zh.B.  
*Legal Integration of Innovative Modernization of Agricultural Production and Environmental Safety in the Republic of Kazakhstan: Current State and Development Directions* // Impact of Climate Change on Water Resources and the Legal Framework for Efficient Water Management. Tashkent: TDYU Publishing House, 2025. pp. 66–75.
4. *Environmental Law of the Republic of Kazakhstan: Study Guide* / Akshatayeva Zh.B., Ozenbayeva A.T. – Shymkent: “Alem” Publishing House, 2025. – 212 p. ISBN 978-601-08-5588-5.

The study guide comprehensively presents the theoretical and legal foundations of environmental law of the Republic of Kazakhstan, the history of its development, its concept, features, subjects and objects, as well as the procedure for their emergence, modification, and termination. It addresses issues of land ownership rights, environmental use, cadastral and monitoring systems, permitting systems, and legal liability for violations of environmental legislation. A separate section is devoted to the legal support of environmental safety, including in the context of innovative modernization of agricultural production, as well as environmental and legal regimes for the protection of the environment and natural resources. The study guide is intended for students of the “Jurisprudence” educational program, master’s and doctoral students, teachers, researchers, practicing lawyers, entrepreneurs, and public authorities..