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### Reference Letter On the Work in Conservation, Wildlife, Plant and Animal Diversity, and Genetic Resources at KazNARU

The landscaping of the territory of the Kazakh National Agrarian Research University (KazNARU) is an important component of the university campus improvement and is aimed at creating a favorable ecological and aesthetically pleasing environment for education, research activities, and recreation for students, faculty, and staff. The university grounds are planted with various species of deciduous and coniferous trees, ornamental shrubs, perennial and annual flowering plants, as well as lawns and green areas located along pedestrian pathways and around academic buildings, administrative offices, and student dormitories.

The Faculty of Forestry and Land Resources at KazNARU stands as a leading academic and research hub in Kazakhstan and Central Asia, dedicated to advancing sustainable forest management and rational use of land resources. With a strong tradition of scientific excellence, the faculty trains specialists who address pressing challenges such as biodiversity conservation, climate adaptation, and restoration of degraded ecosystems. Its programs integrate modern technologies with traditional knowledge, fostering innovation in forestry practices and land stewardship. Through international collaboration, applied research, and practical training, the faculty contributes to regional development, environmental resilience, and the preparation of highly qualified professionals for the green economy.

The Faculty of Forestry and Land Resources contributes to the selection of trees and shrubs takes into account the climatic conditions of Almaty, the plants' resistance to urban environments, their ornamental value, and their ecological significance. To maintain the territory in good sanitary and aesthetic condition, regular maintenance activities are carried out, including planting trees, shrubs, and flowers, watering plants, mowing lawns, sanitary and formative pruning of trees, removing dead and hazardous trees, applying fertilizers, controlling plant diseases and pests, and seasonal cleaning of the grounds. Special attention is paid to preserving existing

green spaces and creating favorable conditions for their further growth and development.

The university implements activities aimed at promoting environmental awareness and the principles of sustainable development, including working on a large project on planning planting trees in Almaty city . Students and faculty

actively participate in environmental campaigns involving tree planting, campus beautification, and maintenance of green spaces. These activities not only improve the condition of the university campus but also provide practical experience in landscaping and landscape design.

The green areas of KazNARU perform vital environmental and sanitary functions by improving air quality, reducing noise and dust levels, enhancing the microclimate, and creating a healthier environment for all campus users. Beyond these immediate benefits, the landscaping system reflects modern standards of sustainability and contributes to long-term conservation efforts. It supports the preservation of plant and animal diversity, safeguards wildlife genetic resources, and strengthens ecological resilience.

Reforestation initiatives and the integration of green spaces into the broader urban landscape of Almaty (planting about 1,000,000 trees over 5 years) further reinforce the University's role in promoting environmental stewardship. By expanding tree cover and introducing innovative greening practices, KazNARU not only enriches its campus ecosystem but also contributes to reducing CO<sub>2</sub> emissions, lowering air pollution, and building a greener, more sustainable city that aligns with global priorities for climate adaptation and ecological responsibility.

**Director for institute for green and  
sustainable development**



**R. Abazov**