A seminar on the development of electrical technology for growing grape seedlings

At the present time, significant works are being done in our country to increase the number of fruit trees and vineyards. A vivid example of this is a video conference chaired by President Shavkat Mirziyoyev on July 7, on measures to grow grapes, develop its industrial processing and promote enotourism in the regions. In the last four years, 52,000 hectares of new vineyards have been planted and 210 billion soums of subsidies have been allocated to the sector. It was noted that during this period, the share of grapes in fruit and vegetable exports has doubled, while in some areas the area of large vineyards decreased by 7,000 hectares. For example, 2.5 thousand hectares in Kashkadarya, 2.4 thousand hectares in Namangan, 1.2 thousand hectares in Surkhandarya, 645 hectares in Andijan and an increase in vineyards in Jizzakh, Karakalpakstan and Fergana. Based on this experience, the task was set to establish new export-oriented grape plantations in 44 districts of Karakalpakstan and the regions.

At the same time, the Resolution of the President of the Republic of Uzbekistan No. PP-5200 dated July 28, 2021 "On the introduction of a cluster system in the development of viticulture, additional measures of state support for the introduction of advanced technologies in the industry." and Resolution of the President of the Republic of Uzbekistan No. 4549 dated 11.12.2019 "On additional measures for further development of the fruit and vegetable and viticulture sector, the creation of a value chain in the industry." and Decree of the President of the Republic of Uzbekistan No. PF-5853 dated October 23, 2019 "On approval of the Strategy of agricultural development of the Republic of Uzbekistan for 2020-2030" could be example for this.

In this regard, on September 10 at "Electrical Technology and Use of Electrical Equipment" Department was organized a scientific seminar for professors, doctoral students, masters and gifted students on "Development of electrotechnology for the cultivation of grape seedlings" by N. Markaev. The seminar provided information on the technology of growing grape seedlings and a number of scientifically based methods to accelerate the formation of roots in grape cuttings. Participants were given opportunity to ask questions to the researcher and the seminar was rich in scientific discussions. Although a number of biological and agro-technical measures are being taken to increase the resilience of grape seedlings, the workshop noted that today farms have low resilience to seedlings and low profitability of seedling cultivation, which hinders the establishment of grape plantations.

It was noted that the current state of science recognizes the possibility of directing these factors in the right direction by controlling them through the electrophysical effects of various stimulants, including various forms of electromagnetic field energy (electric field, electric current, magnetic field, electric discharge, electromagnetic waves, pulsed electromagnetic field)and by actively intervening in plant life.

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