

A “DEVELOPMENT OF A NEW VARIETY OF POPLAR TREE IN GEOGRAPHICAL DIFFERENT REGIONS FOR INDUSTRIAL USE”

SCIENCE AND TECHNOLOGY PROJECT (2016 – 2018)

The science and technology project “Development of a new variety of poplar tree in geographical different regions for industrial use” funded by the Foundation for Science and Technology commissioned by the Ministry of Environment and Tourism was successfully implemented by the Division of Forest Resources and Forest Protection, Institute of Geography and Geocology between 2016-2018.

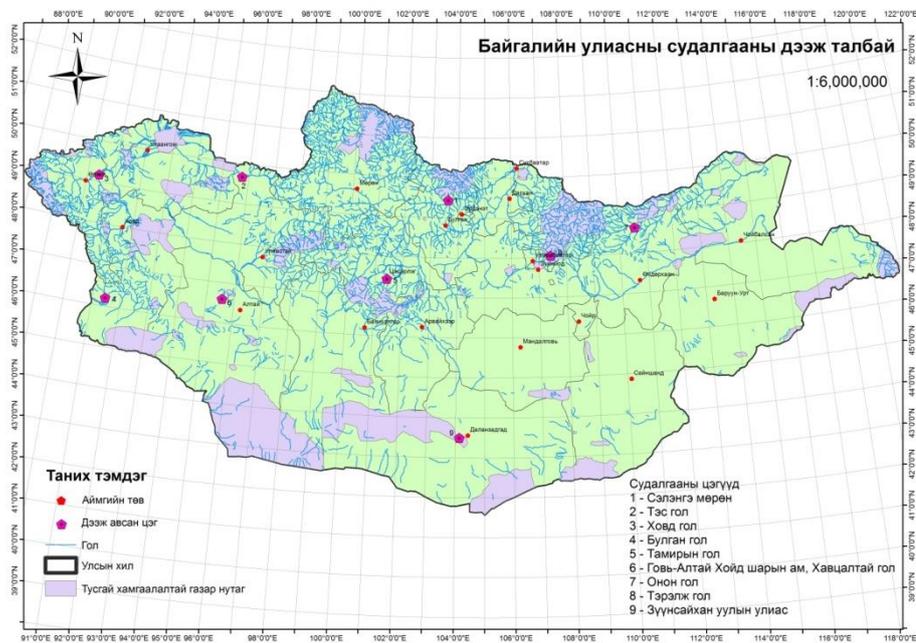
The main purpose of the project was to study the population distribution, species in nature and characteristics of poplar species in Mongolia and to develop a scientific basis for growing poplar trees as a useful plant for lumber and biofuel. The main objectives of the project are: a) to study the distribution of poplar species in nature, natural forests and distribution of populations; b) to identify the individuals and populations with the most favorable characteristics based on their seed quality and seedling characteristics; c) to prepare flowering twigs from native trees selected from natural populations, to collect of pollen, and to conduct artificial pollination; d) to grow seedlings from hybrid seeds obtained as a result of artificial crossing.

The following results were achieved through the implementation of the science and technology project “Development of new varieties of poplar tree in geographical different regions for industrial use (2016-2018)”:

1) Conducted study on distribution of laurel poplar (*Populus laurifolia* Ledeb.) and Mongolian poplar (*Populus suaveolens* Fisch.);

2) Established monitoring sample plots in 9 locations

3) Poplar forest seed plots were established in 4 locations (Erdenebulgan soum, Arkhangai, Bulgan soum, Bulgan, Gorkhi-Terelj National Park, Nogoonnuur soum, Bayan-Ulgii) and temporary poplar seed plots in 5 locations (Tes soum, Zavkhan, Binder soum, Khenti, Bulgan soum, Selenge, Khankhongor soum, Umnugobi, Sharga soum, Gobi-Altai);



4) We planted 1,800 poplar seedlings with pots and 850 open root system seedlings were grown from seeds harvested from Mongolia's natural poplar forest;

5) We planted 180 poplar seedlings grown by hybrid seeds;



6) We developed “Methodology for establishing seed fields and collecting seeds in poplar forest”

7) 4 scientific papers were published as a result of the study;

8) The consolidated report on the research work carried out within the project has been prepared.

