SIBERIAN STONE PINE SEEDLINGS IN CONTAINERS

**Description**
Siberian stone pine seedlings with closed root system are convenient high-quality multi-purpose material. They are brought up in polyethylene containers with a nutritious mix (peat, soil, mineral fertilizers, etc.). The size of the container, the height of plants, and the composition of the mix vary depending on the destination of the planting material. In addition to the ordinary planting material, the Institute provides selection-improved plants. Early ripening, high-yielding, low-sized, large-seeded and thin-shelled breeds are intended for pine nut plantations. Decorative breeds with unusual form of crown and coloring of needles can be used for landscape design.

Siberian stone pine seedling in a container.

**Technical appraisal and economic benefits**
Siberian stone pine seedlings with closed root system are easy, compact, convenient planting material for packing and transportation over any distances with guaranteed root taking of 95-99 % of seedlings. Planting is equally effective at any time between April and November. The use of container seedlings raises the efficiency of creating forest cultures and plantations, and also their stability to difficult environment conditions, reduces the expenses for care of plantings. High-grade planting material has many advantages over usual seedlings in the yield and other useful properties.

**Application areas**
- reforestation;
- creation of plantation cultures and pine nut plantations;
- forest reclamation of disturbed and polluted lands;
- planting trees in towns;
- landscape design.
Development stage
Full-scale production of ordinary planting material and initial stage of production of high-grade planting material at the research stationary camp “Cedar” and some forest enterprises in the Tomsk Oblast.

Patent situation
Know-how is protected.

Commercial offers
- marketing agreement;
- investment contract to set up production;
- joint venture;
- contract for further research and development aimed at selection improvement of breeds and perfection of the technology of cultivation of high-grade seedlings.

Estimated cost
Ordinary planting material: 50–500 roubles depending on the size and age of seedlings.
High-grade planting material: 100–5000 roubles depending on variety, size, and age of seedlings, as well as on the rootstock character and the number of inoculations on it.

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