Description of the object of the concession

The chalk deposit "Dobrushskoye" (hereinafter referred to as "the deposit") is located in Dobrush District of Gomel Region 3 kilometers southwest of the center of the village Medvezhye, 5.3 kilometers northeastward from Zakopyte railway station, 1.5 kilometers northeast of Dobrush. The deposit area is crossed by dirt roads.

Transportation of goods presented by the concessionaire can be carried out in accordance with current legislation of the Republic of Belarus.

The mineral resource is chalk: white writing, yellow-gray, light gray.

The deposit consists of two tabular deposits – North and South located a distance of 350-450 kilometers from each other.

The dimensions of North Deposit are 0.4-1.1 x 1.8 kilometers, the occurrence depth of chalk is 13-21 meters, traversed thickness is 1-34 meters. The dimensions of South Deposit are 0.3-2.5 x 3.8 kilometers, the occurrence depth of chalk is 12.7-21 meters, traversed thickness is 0.5-37.3 meters.

Prospecting and evaluation works have been conducted on the deposit. Total preliminary estimated reserves of chalk are 401 mln tons, including North Deposit accounts for 83 million tons and South Deposit – 308 million tons.

The average thickness of the mineral resource taken for reserves calculation accounts for 32.8 meters in North Deposit and 32.2 meters in South Deposit.

Overburden rocks are presented by top soil, fine and medium granular feldspathic-quartzy, fine and medium granular glauconitic-quartzy sandstone, sometimes with shallow interlayers of fine sandy loam, silt and peat.

The assay of major chemical components in chalk: North Deposit: SiO_2 — 0.54-9.28 %, TiO_2 – 0.01-0.03 %, $A1_2O_2$ – 0.15-1.07 %, Fe_2O_3 – 0.1-1.16 %, CaO – 50.46-55.72 %, MgO – 0.2 %, K_2O – 0.03-0.2 %, Na_2O – 0.04-0.21 %, loss on ignition – 38,17-43,33 %, insoluble residue – 0,78-10,76 %, $CaCO_3$ – 86,82-98,76 %, MgCO – 0.4 %. South Deposit: SiO_2 – 0.66-21.38 %, TiO_2 – 0.01 -0.1 %, Al_2O_3 – 0.12-1.24 %, Fe_2O_3 – 0.09-1.33 %, CaO – 43.1-55.62 %, MgO – 0.3 %, K_2O – 0.04-0.38 %, Na_2O – 0.05-0.22 %, loses on ignition – 32.21-13.35 %, insoluble residue – 1.02-24.14 %, $CaCo_3$ – 3.63-99.35 %, $MgCO_s$ – 0.6 %.

Technological tests of chalk have not been performed. Judging by the chemical composition, the chalk can be used as a carbonate component in the cement production and for the production of building lime. The specific weight of chalk is 1.82-1.95 kilograms per centimeter.

The deposit is irrigated. The groundwater depth level within North Deposit varies from 0.3 to 2.3 meters, South Deposit – from 0.3 to 7.5 meters.

The deposit is located in the radioactive contamination zone from 5 to 15 curies per square kilometer.

High-melting clay of the Neogene age can be used as a clay component in the cement production on the basis of the deposit. It is widespread in Gomel Region, including Vetka and Dobrush Districts where it is in the bedrock and its resources are extensive. Additional technological researches of clay are needed to be conducted.

Preliminary and detailed exploration of the deposit are needed to be conducted. Commercial development of the deposit is available after performing geological exploration works and confirmation of reserves in the prescribed manner.

The initial payment amount of the chalk deposit “Dobrushskoye”, Dobrush District of Gomel Region, is $ 179,3 thousand (Resolution of the Council of Ministers of the Republic of Belarus of 26.09.2012 № 876).