

The deposit is located 18 km eastward of the town of Chernyakhiv, Zhitomyr region in an arable land area with established infrastructure, 15 km away from a railway station.

The deposit consists of Precambrian gabbro-norites 500 m long and 370 m wide which were explored to the depth of 27.8 meters.

Magmatic rocks are represented by unaltered and unaffected by weathering gabbro-norites and underlying labradorites. Gabbro-norites are overlapped with Paleozoic-Cenozoic (gruss, kaolin) and Quaternary (sand, loam) sediments. Overburden thickness ranges from 0.2 to 14.4 m, average thickness making up 4.8 m, including thickness of rock mass which varies from 0.0 to 3.2 m (average amounting to 0.4 m).

Gabbro-norite is a fine-grained homogeneous massive rock without veins, having monotonous dark-grey colour.

After polishing it acquires black colour with greenish-olive hue and is well suited for architectural decorative purposes. Compression strength amounts to 112—229 mPa, low temperature resistance makes up 50, trituration varies from 0.50 to 0.63 g/cm².

The deposit is well suited for manufacturing blocks with volume ranging from 3 to 5 cubic meters, and facing slabs up to 7 cm thick. Block output may reach 17%. Manufacturing wastes and weathered rocks may be used for producing ashlar and rock debris for construction purposes.

The deposit has been exploited for about 100 years. Remaining reserves calculated as on January 1, 1991, **amount to 12.7 million cubic meters. Annual production totals 30-35 thousand cubic meters. Reserves may be extended.**

Several aquifers were detected in Quaternary sediments and fractured crystal rocks with 2600 m³/day maximum water inflow into the quarry (atmospheric precipitations included) by the end of the exploitation.

As to their radioactive properties, gabbro-norites comply in every respect with all most demanding construction requirements.

Foreign partners are expected to provide surface mining and stone processing equipment.

Large reserves of high quality raw material, favourable geographic and economic location, unlimited demand on domestic and world markets guarantee cost effective joint venture exploitation of the deposit.

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