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To:

To the attention of all interested economic operators,

Ref: open tender procedure for the procurement of geotechnical study services – determination of the physical-mechanical and rheological parameters in the 14th horizon of the Cantacuzino Salt Mine in order to estimate its stability degree - at the Slanic Prahova Salt Mine branch

CLARIFICATIONS NO. 1

QUESTION no. 1. Determining the physical characteristics - please list which of the physical characteristics of the salt you refer to?

ANSWER: The minimum mandatory physical characteristics that will have to be determined by laboratory tests are the following: specific weight, apparent specific weight, compactness, porosity, apparent porosity, longitudinal wave transmission speed, dynamic modulus of elasticity.

Any other additional determinations deemed necessary by the designer to achieve the intended purpose, namely estimate the stability degree of the 14th horizon of the Cantacuzino Salt Mine, will be taken into account.

QUESTION no. 2. Determining the mechanical characteristics - please list which of the mechanical characteristics of the salt you refer to?

ANSWER: The minimum mandatory mechanical characteristics that will be determined by laboratory tests are the following: monoaxial compressive strength, tensile strength, bending strength, shear strength, real cohesion, apparent cohesion, internal friction angle, specific shortening at break, static modulus of elasticity, Poisson's ratio.

Any other additional determinations deemed necessary by the designer to achieve the intended purpose, namely estimate the stability degree of the 14th horizon of the Cantacuzino Salt Mine, will be taken into account.

QUESTION no. 3. Determining the overtime stability of the surface and the elements of resistance on the 14th horizon - how many elements of resistance are there in the 14th horizon?

ANSWER: The 14th horizon stretches over an area that has a length of 1200 meters and a width of 400 meters. The height of the 14th horizon hearth is +145 meters, and the highest elevation of the land on the surface is +520 meters. The resistance elements are the intercameral pillars arranged throughout the surface of the horizon, in a square network of 30x30 meters. The dimensions of the pillars and the rooms in the 14th horizon are 18 x 18 m pillars, 12 x 18 m room, 8 m height for rooms and pillars, these elements will be modified depending on the outcome of the geotechnical study through the exploitation project that will be drawn up later.

QUESTION no. 4. Numerical analysis of the stability of the resistance structures from Slanic Prahova Salt Mine 14th horizon, using the finite element method - how many resistance structures are on the 14th horizon?

ANSWER: The resistance structure of the 14th horizon is composed of intercameral pillars arranged throughout the surface of the horizon, a safety/equalization floor with a thickness of 40 meters left unexploited between 11th-14th horizons and marginal pillars with a minimum thickness of 30 meters up to the limit of the deposit, positioned throughout the contour of the horizon.

QUESTION no. 5. The work will be carried out according to NP074 of 2014 - the standard does not regulate the geotechnical studies for underground structures in the mining field.

ANSWER: Standard NP 074 -2014 provides in chapter 1.1.2. that mining constructions are also part of the scope.

QUESTION no. 6. In order to prepare a real offer, we request the number of structures from the 14th horizon as follows:

- How many pillars are there and which are their heights and widths?
- What is the area of the horizon ceiling and floor?
- How many rooms and galleries does the horizon have?
- What physical analysis should be performed?
- What mechanical analysis must be performed?

Please note that the number of samples to be taken for analysis is influenced by the above clarifications.

ANSWER: The requested data were specified in the previous paragraphs.

QUESTION no. 7. From a legal point of view, in terms of similar experience, does it apply to CPV code 71332000-4 - geotechnical engineering services or to experience in drawing up geotechnical studies in the mining industry? Clarification is required given that, according to chapter 5, point 17 – the laboratory that performs the tests must have experience in carrying out studies in the mining industry.

ANSWER: Similar experience refers to the performance of laboratory tests and the preparation of studies for the mining industry.



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