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Facility of the European Union



Press Release

December 23, 2022

Selection of the optimal variant from the options analyzed in feasibility study for the modernization of the Predeal - Braşov railway infrastructure

On 22.12.2022, the National Railway Company "CFR" S.A. and the Consultant represented by the Association Egis Romania SA - EGIS Rail SA - Italrom Inginerie International SRL, organized an event for specialised public to present the selection process which lead to the optimal variant from technical and economic perspective for the modernization of the Predeal - Braşov railway infrastructure.

From the detailed analysis of the six options in the short list carried out in the feasibility study, option A3 was selected as the optimal variant to be further analysed. This variant includes the possibility of construction a 9.80 km long tunnel designed between the Azuga/Predeal border and Timişul de Sus station and its implementation meets the most realistic and balanced results in terms of costs, benefits and implementation risks:

- ❖ the best cost-benefit ratio (3.53)
- ❖ the best internal economic rate of return (15.65%)
- ❖ the lower investment/implementation risks compared to the other options from the short list (in terms of the consolidation and hydrotechnical works, environmental impact, roads, expropriations, etc.)
- ❖ ensures travel capacity similar to the rest of the analysed options
- ❖ maximum declivity 18.50 ‰ which allows the highest maximum tonnage allowed by the 30 tons traction device (1345 tons with 74% more than in the existing situation)
- ❖ an effective speed for freight trains of 91.34 km/h and 93.35 km/h for passenger trains
- ❖ the minimum estimated cost of the investment is 963 million euros.

The payments under the services contract are ensured from Cohesion Funds (85%) through Connecting Europe Facility (CEF) and from Romanian State Budget.

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Prezentarea opțiunilor de traseu de tip A

<p>Opțiunea 1 - Opțiune minimală</p> <p>Lungime totală - 26,94 km Declivitate maximă - 34‰ Viteza efectivă trenuri marfa - 67,25 km/h Viteza efectivă trenuri călători - 74,69 km/h Lungime totală tuneluri - 2,23 km</p>	<p>Opțiunea A1</p> <p>Lungime totală - 25,82 km Declivitate maximă - 25 ‰ Viteza efectivă trenuri marfa - 70,71 km/h Viteza efectivă trenuri călători - 81,39 km/h Lungime totală tuneluri - 7,82 km</p>
<p>Opțiunea A2</p> <p>Lungime totală - 25,70 km Declivitate maximă - 20 ‰ Viteza efectivă trenuri marfa - 82,82 km/h Viteza efectivă trenuri călători - 95,46 km/h Lungime totală tuneluri - 7,70 km</p>	<p>Opțiunea A3</p> <p>Lungime totală - 25,47 km Declivitate maximă - 18 ‰ Viteza efectivă trenuri marfa - 85,33 km/h Viteza efectivă trenuri călători - 98,26 km/h Lungime totală tuneluri - 10,80 km</p>

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