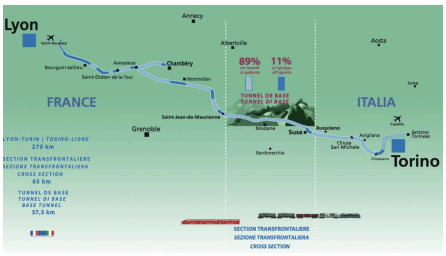
TELT, CO08 – Villard Clément









SHORT DESCRIPTION

The cross-border section of the new Lyon-Turin line is a new railroad line some 67 km long, linking Saint-Jean-de-Maurienne with Susa in Italy and Bussoleno, where it connects to the historic Turin-Modane line.

THE PROJECT

In particular, the line requires the construction of a 57.5 km long twin-tube tunnel (Montcenis Base Tunnel), the construction of which has been divided into various lots, the so-called Chantiers Opérationnels (CO). These include lots for the excavation of sections of the base tunnel and the associated structures (ventilation shafts, descents, etc.), lots for the management and recycling of the excavated material (CO10 and 11) and a lot for the systems (CO12).

The consortium Implenia – NGE GC – Itinera was awarded the contract for lot CO 08 for the "Construction work for the construction of the base tunnel from the portal stops in Villard Clément".

The CO08 construction contract includes:

- Excavation and lining of the two tubes of the base tunnel in the direction of Saint Martin la Porte, i.e. 2839 m,

including 509 m of umbrella vault in previously consolidated ground (jet grouting), marking the start of the base tunnel. The remainder of the excavation will be carried out using conventional explosives.
- Connecting tunnels between the tubes (11),
- recesses (6 units),
- Installation of a conveyor belt for the removal of material from the tunnel to the transfer points of lot CO11,
- Construction of a covered trench from the tunnel portal to the covered trench, which was built as part of lot CO09a.
- The contract includes the preparation of the execution and method studies as well as the execution of the work. The project is planned and realized under BIM.

CONSORTIUM

- Implenia France (34%)
- Implenia Switzerland (5%)
- NGE GC (32%)
- Itinera (29%)

SERVICES IN DETAIL

- Detailed execution and method studies
- Earthworks
- Jet grouting and micro-berlinoise
- Excavation using conventional methods with blasting and explosives
- Installation of a sealing membrane
- Lining of the tunnel with in-situ concrete
- Civil engineering works for the covered trench

SUSTAINABILITY

- Creation of an environmentally friendly construction site, enabling CO_2 emissions to be reduced by two thirds
- Reuse of water via a treatment plant that recycles 80% of the water used (industrial water and waste water)
- Control of energy consumption via a central building management system (GTC)
- Reuse of up to 80% of excavated materials by using them as backfill material for railroad platforms or as granulate for concrete

FURTHER INFORMATION

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FACTS

Location	Saint-Julien-Montdenis , France
Status	Under construction
Construction volume (value of our services)	248 M EUR
Start of construction	January 2021
Completion	January 2027
Building owner	TELT
Construction management	Egis – Ingerop – Alina – Geodata

ARGE	✓
Construction management	Egis – Ingerop – Alina – Geodata
Length	2839 m
Blasting method	✓

SERVICES

- Tunnelling
- Transport tunnels
- Infrastructure

https://implenia.com/en/references/detail/ref/telt-co08-villard-clement/

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