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**Annex 2.1**

**Description of the activities' progress in the previous reporting period**

**a) Actual progress of the activities in relation to the forecast**

**Activity 4 – Exploratory work from Saint-Martin-La-Porte**

At the Saint-Martin-La-Porte exploratory tunnel, 2020 was marked by the following events and activities:

- The continuation of the excavation carried out using the conventional methods on part 3b (excavation starting points);
- The health crisis due to Covid-19;
- The dismantling of the Federica tunnel boring machine.

**Progress of the excavation in part 3b carried out with conventional method**

**- Excavation starting point on Lyon side**

At the beginning of the year, excavation resumed at pk 10+484 with an average rate of 0.7 m/day (excluding the Covid-19 impact mentioned below).

At the end of July, the degradation of the land characteristics at pk 10+610 made it necessary to halt excavations in order to carry out additional surveys.

The advance then continued in a reduced section (R=4.36m) then in a small section (R=3.15m).

At the end of the year, after 66 LM of small-section excavation at a monthly average rate of 0.7 m/day, the pk 10+682 was reached and marked the end of the small-section excavation and the exit from the fault zone.

The advance on the Lyon side was thus 198 m in 2020.

**- Opposite excavation starting point on Turin side**

Just as a reminder, an opposite excavation starting point was begun on 30 October 2019 from pk 11+469 and reached pk 11+424 at the end of 2019.

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In 2020, excepting the Covid-19 shut-downs, excavation in large section continued with a semi-rigid lining to reach pk 11+149 at the end of the year, which is to say 275 LM excavated at a monthly average rate of 0.8 m/day.

#### **- Summary part 3b**

By the end of 2020, 467 m remained to be excavated in part 3b.

#### **The health crisis due to Covid-19**

In early 2020, the virus was recorded in Europe, first in Italy, then in France, but construction site activity remained at its usual level.

On 16 March 2020, a lockdown was declared in France and subsequently renewed three times until 10 May 2020. This unprecedented health situation had directly impact the production of the construction site from 16 March to 30 June 2020, however it had not stopped it and the site had adapted to health measures.

The delay impact on the year 2020 represents approximately 1.5 months of production.

#### **The dismantling of the Federica tunnel boring machine**

Preparatory work for the dismantling of the tunnel boring machine started in May 2020.

The dismantling of the TBM then accelerated with the dismantling of the head of the TBM and the trailers in September/October.

The end of the year was marked by the transfer of the elements to the Praz platform and the completion of the civil engineering work in the tunnel boring machine's dismantling chamber (filling of the pit, completion of the slab).

#### **Activity 7 – Release of the land acquired for public purposes and demolitions**

Concerning the demolitions, a second phase of works was initiated in January 2020 and completed in July 2020, with the demolition of 9 lots in the Saint-Jean-de-Maurienne basin (8 residential homes and 1 warehouse).

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Finally, a third phase began at the end of December 2020, with demolition work scheduled for the end of March 2021, again in the Saint-Jean-de Maurienne basin, involving three residential homes and a sawmill.

#### **Activity 8 – Utilities diversions in France**

In 2020, the main agreements and works relating to network re-routings concerned:

- Re-routing of the [REDACTED] 63 kV Aussois-Terres Froides power line: the new underground line has been commissioned, and the cables of the overhead line have been removed. What remains to finish this operation is the removal of the pylons in March 2021;
- Re-routings of the [REDACTED] 42kV-63kV and 150kV power lines in the Saint-Jean-de-Maurienne basin: work started following the signing of the work contracts on 21 December 2018 and 19 December 2018 respectively; the work will be finalised in coordination with the end of the construction site 9a cut-and-cover tunnel planned for mid-2021;
- Re-routing of an [REDACTED] power line at the Illaz site (Saint-Julien-Montdenis): ordering of new pylons made to respect the general schedule.
- Re-routing of the [REDACTED] 20 KV Frejus power line: these works have now been completed and the overhead line was removed at the end of 2020.

In 2020, 5 agreements relating to network Re-routings were signed for a rounded amount of €4.5m, including the one with [REDACTED], which took more than 2.5 years to negotiate.

#### **Activity 9 – Utilities diversions in Italy**

In 2020, the following conventional activities were undertaken as well as some network re-routings, in accordance with CIPE Resolutions Nos. 19/2015, 30 and 39/2018, included in the financing of construction lot 1 as defined in CIPE Resolution No. 67/2018:

- Agreement with [REDACTED] for the construction drawings and re-routing works of the NLTL networks concerning the supply systems and sewerage networks in the municipalities of San Didero/Bruzolo, Caprie and Torrazza Piemonte;
- Agreement with [REDACTED] for the regulation of the works needed for the transfer of the current logistics hub of Susa to the territory of the municipalities of San Didero and Bruzolo;

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- Operational arrangements with [REDACTED] for the construction drawings and re-routing works of the NLTL networks concerning telephone and data networks in copper and optical fibre in the municipalities of Salbertrand, San Didero/Bruzolo, Caprie and Torrazza Piemonte;
- Implementation with [REDACTED] of the construction drawings and works for the re-routing of the NLTL networks concerning the low and medium voltage electrical networks in the municipalities of Salbertrand, San Didero/Bruzolo and Torrazza Piemonte;
- Implementation with [REDACTED] in synergy with [REDACTED] of the construction drawings and work to resolve the impact of the logistics hub on the methane distribution network in the municipalities of San Didero and Bruzolo;
- Agreement with the [REDACTED] for the compensation of the wooded areas affected by the Chiomonte interchange construction site.

In view of the network re-routing work, the following activities were carried out in 2020:

- Within the framework of the Agreement with [REDACTED] for the re-routing of the networks between the [REDACTED] connection called "Piemonte-Savoie" and the transfer of the logistics hub, the civil engineering work and equipping have been completed in the municipalities of San Didero and Bruzolo (TO);
- Within the framework of the Agreement with [REDACTED] for the construction drawings and re-routing works of the [REDACTED] networks in the La Maddalena site, for the realisation of the new 15 kV power line connecting the Chiomonte and Susa power plants, and the subsequent definitive dismantling of the 50 kV "Chiomonte-Susa" overhead line. The re-routing of the power line on the new site has been commissioned, while the dismantling of the old power line will take place in the first half of 2021.

**Activity 10 – Base tunnel : Maddalena and Chiomonte interchange : Chiomonte interchange**

In 2020, the procedure for approval of the construction studies of the interchange was followed, the integrations required by the CT VIA notice were presented and the closure of the construction zone began with the support of the police.

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**Activity 11 – Outdoor works Italy : New autoport (Convention [REDACTED]) – O.W. 2C**

In 2020, the integrations required by the CTVIA notices were carried out, the calls for tenders for the preparatory work agreed with the bodies were prepared, and the Re-routing of the sub-services and the [REDACTED] cable was carried out. The ante-operam environmental monitoring has been launched.

**Activity 14 – Electric connection for Italian worksites**

In 2019, following prescription n° 33 of CIPE resolution n° 39/2018, [REDACTED] and [REDACTED] studied a connection solution to optimise the work of TELT.

After several meetings, a possible technical and administrative solution was agreed between all parties on 31 July 2019.

On 31 December 2019, an agreement was signed between TELT and the Municipality of Chiomonte (sole partner of [REDACTED] Chiomonte) for the feasibility study of the said solution.

During the first months of 2021, the procedures for authorisation and connection to the HV power line were implemented, as provided for in the approved project and the prescriptions given by the CIPE, including through the acquisition of the areas necessary for the connection.

**Activity 15 – Avrieux shafts**

The year 2020 was characterised by the notification of the works contract for the construction of the Avrieux shafts.

Date of notification of the Contract: 10/07/2020

Grouping of beneficiary companies: [REDACTED]  
[REDACTED]

Theoretical duration of the work: approximately 36 months [REDACTED]

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#### **Key dates:**

- 10/07/2020: BCpa\_01 notification for the supply of survival cabins
- 27/08/2020: notification of BC01 (principal works)
- 28/09/2020: Service order for delivery of areas

Work carried out at the end of 2020: this had been a period of the start of the preparatory work necessary for the start of the main activities. This work notably concerned: fitting-out of the site platforms / Construction of the site facilities / Redevelopment of the access adit (replacement of the electrical and wet networks, replacement of the ventilation system, resumption of the supports, etc.)/ Earthworks on the Avrieux platform.

This work will continue over part of 2021.

#### **Activity 16 – Outdoor works France : Villard Clément cut and Cover**

In 2020, the completion of work on this site had exceeded the critical point by the restoration of the highway in November 2020 on lots 1, 2 and 3 of the new concrete frame as well as the start of work on lot 4 in order to re-open the route RD1006 on it in early summer 2021.

The completion of the works is still planned for autumn 2021 in accordance with the work assignment schedule.

#### **Activity 17 – Electric connection for French Worksites**

Over the course of 2020, the operations relating to the agreements for the power supply to the construction sites needed to respect the general schedule, have progressed with, in particular:

- Creation of the 63-20 KV electrical substation to supply construction site n. 5 under the project management of the Villarodin-Bourget electricity company: work has begun and the general planning is coordinated with the needs of the construction site;
- Power supply of 5.8 MW for the tunnel entrance at operational construction site n. 8: administrative authorisations have been obtained and work is progressing well ;

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- Power supply to operational construction site n. 6 (La Praz): the work is now complete, and the connection will be made to the installation of the electrical distribution station by the company awarded the contract for the operational construction site n. 6-7 ;
- Power supply for operational construction site n. 5a at the Avrieux shafts: the work has been carried out and delivered by the [REDACTED] Electrique d'Avrieux.

**Activity 21 – Base tunnel : Maddalena-Susa**

The drafting of the bidding documents for CO3-4 prepared by the project manager on the model of the bidding documents on the French side has been completed.

Similarly, the bidding documents has also been positively evaluated by [REDACTED]

On 14 December 2020, the bidding documents were sent to the Contracts Committee for approval.

**Activity 22 – Base tunnel : Maddalena and and Chiomonte interchange : Maddalena interconnecting niches**

On 17 February 2020, Purchase Order No. 1 was sent to the [REDACTED] consortium for the launch of mission No. 1 Executive Design.

The total for the mission is € 292,000 and the construction drawings were carried out within the set deadlines.

On 29/05/2020, TELT sent the documents for the presentation of the compliance verification request to the ministries.

On 23/11/2020, the areas of the La Maddalena construction site were handed over to the Group to start maintenance activities; on 17/12/2020, the construction drawings were approved with notice MATTM DEC 0000501.

On the same date, Purchase Order No. 2 amounting to a total €3,609,211.63 was issued for site installation work and the supply of materials.

On 22/12/2020 the payment certificate for mission no. 1 was issued for a total of € 277,400.00. [REDACTED]

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**Activity 23 – Base Tunnel Maddalena and Avrieux shafts : base tunnel : Modane and Maddalena**

The entire year of 2020 has been dedicated to the tendering phase of the construction works contracts for the base tunnel from the excavation starting points on the French side.

Lot n°1 concerns operational construction site 05: construction work on the tunnel from the excavation starting points of the access adit on the Villarodin-Bourget/Modane side.

The companies' consultation files were made available to the successful candidates at the end of the application selection phase on 10 December 2019.

The bids were submitted by these candidates on 18 June 2020.

The offer analysis and negotiation phases occupied the entire second half of the year.

The whole procedure took place in a context disturbed by the health situation resulting from the Covid-19 epidemic.

**Activity 24 and 25 – Base Tunnel La Praz-Modane / Base tunnel Saint-Martin-La-Porte - La Praz**

The entire year of 2020 has been dedicated to the tendering phase of the construction works contracts for the base tunnel from the excavation starting points on the French side.

Lot n°2 concerns the operational construction sites 06 and 07: construction work on the tunnel from the excavation starting points of the La Praz and Saint-Martin-la-Porte winzes.

The companies' consultation files were made available to the successful candidates at the end of the application selection phase on 10 December 2019.

The bids were submitted by these candidates on 29 June 2020.

The offer analysis and negotiation phases occupied the entire second half of the year.

The whole procedure took place in a context disturbed by the health situation resulting from the Covid-19 epidemic.

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**Activity 26 – Saint-Julien-Mont-Denis (West Entrance) - SMP**

The entire year of 2020 has been dedicated to the tendering phase of the construction works contracts for the base tunnel from the opening on the French side.

- Lot No. 3 concerns operational construction site 08: construction work on the tunnel from the excavation starting points on the Villard-Clément entrances.
- The companies' consultation files were made available to the successful candidates at the end of the application selection phase on 10 December 2019.
- The bids were submitted by these candidates on 8 June 2020.
- The offer analysis and negotiation phases occupied the entire second half of the year.

The whole procedure took place in a context disturbed by the health situation resulting from the Covid-19 epidemic.

**Activity 27 Activity 28 – Outdoor works France : Saint-Jean-de-Maurienne (TELT and [REDACTED])**

Within the framework of the financing agreement no. 5, [REDACTED] has stepped up the work begun in 2019 with the launch of 15 Works Contracts for phases 1 and 2A, which involve undertaking all the preliminary services for the start of phase 2, now scheduled for 2023.

On the Saint-Jean-de-Maurienne site, the following works can be mentioned:

- The Computerised Point Answering Station (PAI) and the associated technical tunnel whose GC was completed in November 2020.
- Maintenance buildings: FSA- GA1 and GA2 started in June 2019 and to be completed in spring 2021.
- The new electrical substation of the historic line started in September 2020.
- The René Cassin Rail Bridge prefabricated on site, the shifting of which was undertaken on 1st November 2020 in a single blow operation.
- Roads and networks in the Bastille district (Rue Bastille/Cassin/Sibué) and the construction of the future site base for phase 2 works.

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- The Temporary PEM (Multimodal Exchange Pole) which will replace the current [REDACTED] railway station from 2022.

At the St. Avre and Hermillon sites, phase 1 works (PAI, Gypsum loading facilities, service track bundles, cable unwinding, etc.).

All these construction sites were marked by the effects of the COVID19 pandemic and the resulting suspension of work between March 2020 and June 2020.

In particular, the single blow operations planned for the spring could not be carried out, nor the works planned on the National Railway Network during this same period.

The main consequence is the postponement by one year of the start of phase 2 (from May 2022 [REDACTED] [REDACTED] associated with a postponement of activity from €15m to €20m from 2022 [REDACTED]

Regarding the progress of work under TELT project management: Demolition work on the second phase was completed in the summer of 2020 and work on the Trimet and "Villargondran" embankments was completed in December 2020.

#### **Activity 31 – Management of excavated materials –Italy**

The following main activities were carried out during 2020:

- Signing of the agreement with the owners to obtain the effective availability of the site for the definitive deposit and morphological remodelling of Torrazza Piemonte.
- Signing of the contract for the award of project management services for the recovery of excavation materials on the Italian side and drafting of the relative specifications (bidding documents) for the award of the tender for the management of excavation soil and rock, completed in December 2020 and currently being examined and verified by the company's appointed bodies.
- Drafting of the single land use plan for the Lyon-Turin line, in accordance with the regulatory framework complying with provisions 20 and 22 of Resolution CIPE 39/2018, completed by the Plan for the verification of property values pursuant to art. 5 paragraph 4 of Ministerial Decree no. 161/12, which concerned both the production sites (Susa, Bussoleno, interconnection) and the destination sites (Caprie e Torrazza).

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- Realization of an extensive campaign to characterize the abandoned materials in the Salbertrand area, and launch of the administrative procedures for substitution actions by TELT with regard to those responsible for the abandonment of the materials.
- Drafting of the Waste Disposal Project for the area, presented to the Board of Directors on 18/12/2020, and publication of the contract notice for the removal of waste from Area A. The tender procedure is under way.
- Construction of installations to monitor the water levels in the zones close to the left bank of the Dora at Salbertrand, as required by the provisions of CIPE 52 and 132 of resolution CIPE 39/18 for the protection of the habitats present.

### **Activity 32 – Management of excavated materials in France**

The year 2020 was devoted to the following activities:

#### **Processing of the CO11 Project management:**

Analysis of Tenders, award proposal and contract notification

Date of notification of the Contract: 02/12/2020

Grouping of beneficiary companies:

[REDACTED]

#### **CO11 works contract:**

Drafting, validation and publication of the contract notice on 08/12/2020 (receipt of applications on 08/02/2021).

**Contract for preparatory works to protect the banks of the Arc** (rock fill works at the Resses d'en Bas, Illaz and Saint-Félix sites)

Publication of the bidding documents, analysis of the bids received and proposal for awarding the contract in December 2020.

[REDACTED]

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#### **Works contract for the Modane bypass road:**

Drafting and publication of the bidding documents, reception of the offers in October 2020, analysis of the offers (with 1st round of negotiations). The analyses will go on in 2021 for an allocation foreseeably in the first half of 2021.

**Agreement with [REDACTED] for the creation of the Illaz ITE (railway branch line):** This concerns the carrying out by [REDACTED] of the [REDACTED], the bidding documents, the business consultation and the execution of the works. This agreement has been the subject of several exchanges, resulting in a quasi-definitive version at the end of 2020 that will be signed in the first quarter of 2021.

#### **Topographical services for the French side of the base tunnel construction sites.**

Realization of several topographic and bathymetric surveys at various external sites and realization of a precision polygonal for the CO5a contract (Avrieux shafts).

#### **Activity 33 – Engineering and other costs not included in other OW**

Through a multi-year project contract to offer project management support signed with a group of major engineering companies ([REDACTED]), the Engineering Department provides general technical activities and support to operational construction sites not included in the project management engineering activities or of the implementing companies (executive design).

The main activities in 2020 were as follows:

- External monitoring of the cut-and-cover tunnel works associated with the re-routing of the A43 motorway,
- External monitoring of the bidding documents of the 03/04 and 10 operational construction sites
- External monitoring of the Saint-Jean-de-Maurienne [REDACTED] for the definitive works of the Lyon-Turin line,
- General functional studies such as the collection and disposal system for hazardous materials or the definition of BIM specifications.

Detailed technical studies on the various operational construction sites in France and Italy, not included in the activities entrusted to the project management.



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**b) New task during the period of reference**

Not applicable

