



Field Assembly, 132 kV Line Laying and Fiber Optic

Genelba | Techint | Pampa Energía | Buenos Aires | Argentina.

ENVIRONMENT

The Genelba Thermal Power Plant is located in Marcos Paz, Buenos Aires, it consists of a combined cycle of 674 MW of installed power, composed of two gas turbines of 219 MW each and a steam turbine of 236 MW. A 169 MW gas turbine called Genelba Plus is located on the same site. The total installed capacity of the complex is 843 MW and represents 2.2% of the total installed capacity in Argentina. The Power Plant is located in a strategic location, just one kilometer away from the Ezeiza transformer station, a reference node for the "Mercado Eléctrico Mayorista" (Wholesale Electricity Market) for supplying energy to the highest demand in the country.



EXECUTION

28

WEEKS



WORK TEAM

35

ENGINEER/TECHNICIAN



COMPOSITION

 50% ▮ Fields Assembly
 35% ▮ Wire Laying
 15% ▮ Optical Fiber

DETAIL

2019

ELECTROMECHANICAL ASSEMBLY FIELDS 132 kV

Mounting and assembly of reticulated structures for equipment, gantries and "bottle-type" porcelain terminal insulators for underground cable, assembly of single-row disconnectors, three-pole disconnectors with grounding, switch, current transformers, voltage transformers, assembly and bar interconnection, command boxes, command boards and command interconnection.

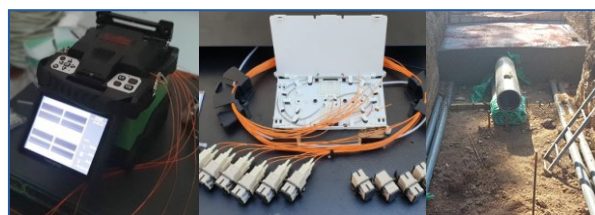
132 kV CABLE LAYING UNDERGROUND

Cable laying carried out on staggered lines, includes the verification of obstructions, cleaning and boring of lines, positioning of the coils of the HV cable, of the winch, of the rollers for directing the HV cable, laying of the pulling cable, laying of HV cable, positioning of cables in terminal structures and in junction chambers, insulation measurement with applied voltage of 10kV. Approximate cable run of 2 km and has two junction chambers.

LAYING, FUSION AND CERTIFICATION OF OPTICAL FIBER

The service includes the labor for:

- 2 km. line-lying of FO, made up of 3 (three) sections of cables (6 ends).
- Assembly of 6 (six) optical distribution boxes.
- Fusion and certification 144 FO Single Mode tips.
- Verification of fusions with Optical Time Domain Reflectometer (OTDR).
- Verify integrity of FO, splice losses, measure length and failures.
- The Fusion and Certification tasks were carried out with Adetech IG's own teams.



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