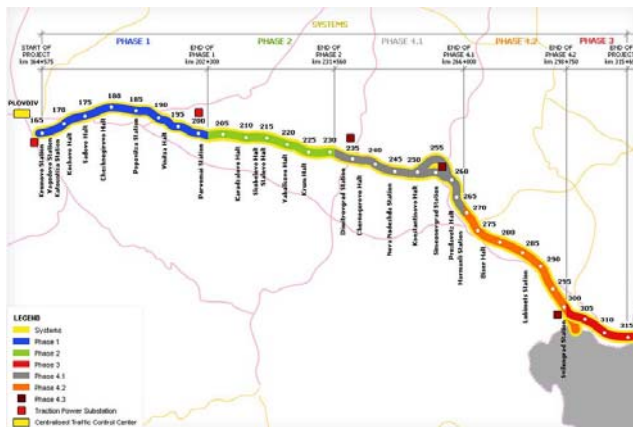


Bulgaria

Main objectives of the project are the development of the network of the National Railway Infrastructure Company through electrification and upgrading the railway infrastructure of the line Plovdiv – Svilengrad – Turkish/Greek borders for a minimum speed of 160 km/h, with high performance indicators and compliance with the European requirements for safety of the traffic, energy efficiency and environmental safety.



Reconstruction and electrification of Plovdiv – Svilengrad – Turkish/Greek border railway line along Corridors IV and IX

Technical Parameters:

- Project Length – approx. 150 Km
- Approx. 20 Km Double Track
- Maximum Speed - 160 km/hr for conventional trains and 200 km/hr for tilting trains
- Standard UIC Gauge – 1435 mm
- Rails – UIC 60
- Sections implemented for future doubling
- ‘Classic’ Single Phase 25 Kv AC 50 Hz OHL
- 27 Stations & Halts – New Build / Rehabilitation
- Connection to 110 Kv National Power Supply – 8 Overhead Lines
- Traction Power sub-stations 110/25 kV – 4 nr.
- Extensive Structures – Bridges, Underpasses, Culverts Etc.
- Signaling System (ETCS Level 1) – 252 km
- Telecommunications – 252 km

Phase 1: Krumovo-Parvomai

Contractor: TERN S.A. (Greece)

Works Contract Scope for TERN S.A. (Greece):

Krumovo – Parvomai encompasses the design and construction of 37 km of railway track out of which 17 km between Katunitsa and Popovitsa stations were doubled.

Scope of Contract for ISAF S.A.:

ISAF S.A. was responsible for supplying and delivering of equipment and materials necessary for the performance and completion of the OHLE, EPS works and for protection of adjacent installations. Also, ISAF S.A. was performing the installation of all the materials listed above, including services, in a timely and technically manner.

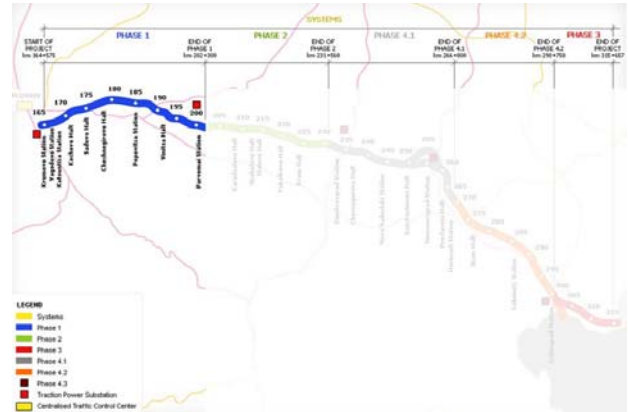
Contract value: 2.85m €

Term: 2009 – 2011

Average staff number : 20 / month

Machines : 2 draisines, 1 EDK crane, 1 equipment type Mecalac, 1 HIAB, 3 cars

Safety: zero incidents, zero accidents



Reconstruction and electrification of Krumovo-Parvomai

ISAF S.A. had installed successfully:

- the overhead line equipment: cantilevers, overhead contact wire system for main & auxiliary lines, sectioning insulators
- the electric power supply: load switch & control equipment, disconnectors, transformers, line surge arresters
- the protection of adjacent installations: return wire, feeder conductor, earthing



Phase 4.1: Dimitrovgrad-Harmanli

Contractor: TERN S.A. (Greece)

Works Contract Scope for TERN S.A. (Greece):

Dimitrovgrad- Harmanli Railway Section Reconstruction and Electrification (from km 231+560 in Yabalkovo – Dimitrovgrad Railway Section to km 266+000 in Hramanli-Svilengrad Railway Section), including Dimitrovgrad and Simeonovgrad Stations and all Stations and Stops between them, with approximate length of the railway of 36 km.

Scope of Contract for ISAF S.A.:

The relevant scope of the contract with TERN was to supply & delivery, to install the materials and to perform tests in order to ensure the achievement of catenary system, power supply and protection works.

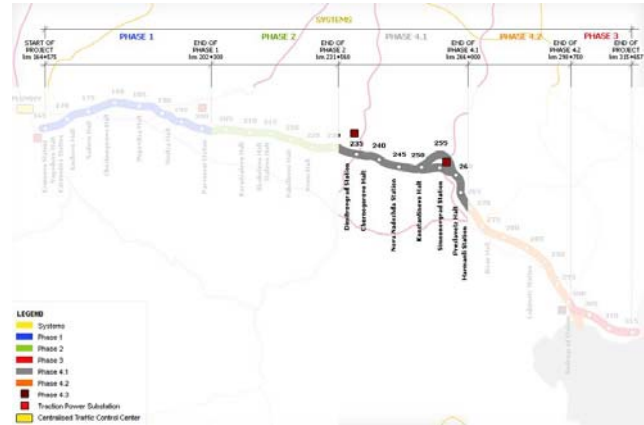
Contract value: 2.43m €

Term: august 2014 – august 2016

Average staff number : 20 / month

Machines : 2 draisines, 1 EDK crane, 1 equipment type Mecalac, 1 HIAB, 3 cars

Safety: zero incidents, zero accidents



Reconstruction and electrification of Dimitrovgrad-Harmanli

Due to an effective project management ISAF S.A. has successfully accomplished the scope of the contract by obtaining the best deals, on time and budget, from suppliers of Romania, France, Germany, Austria, Switzerland, Italy .

From mounting the materials manufactured by ISAF like metallic poles, gantry beams, multitrack cantilevers, drop brackets, to installing cantilevers, messenger & contact wire, return wire, feeder conductor and, also, and to perform power supply and protection works, ISAF S.A. successfully managed these challenges.



Phase 4.2: Harmanli-Svilengrad

Contractor: PORR/PST HOLDING

Works Contract Scope for PORR/PST HOLDING:

Harmanli – Svilengrad railway upgrading and electrification (from km 266+000 in the inter-station block Simeonovgrad - Harmanli to km 297+750 in the inter-station block Svilengrad – Turkish Border), including Harmanli and Svilengrad stations and all stations and halts between them, with approximate railway track length of 34 km and Svilengrad – Greek border railway upgrading and electrification with approximate length of 4 km.

Scope of Contract for ISAF S.A.:

ISAF S.A. was responsible for supplying and delivering of metal poles, anchor bolts and structures and for performing the installation of all the OHLE, EPS materials and protection works.

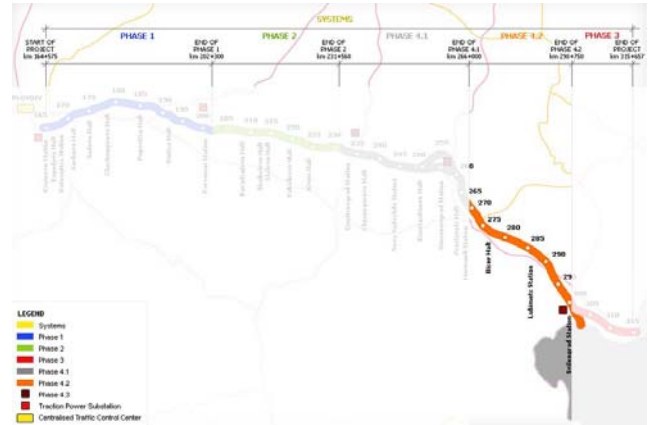
Contract value: 594k €

Term: may 2015 – march 2016

Average staff number : 20 / month

Machines : 2 draisines, 1 EDK crane, 1 equipment type Mecalac, 1 HIAB, 2 cars

Safety: zero incidents, zero accidents



Reconstruction and electrification of Harmanli-Svilengrad

ISAF S.A., with a great success, has manufactured, delivered and mounted the metallic poles, gantry beams, multitrack cantilevers, drop brackets and has achieved the installation of:

- overhead contact line
- return current circuit system
- feeders, sectioning & sub-sectioning points
- disconnections
- sustaining elements protection of contact line
- earth protection of buildings, installations, utilities networks and other metallic parts



SCADA Systems work

Contractor: ALCATEL-LUCENT ROMANIA

Works Contract Scope for ALCATEL-LUCENT ROMANIA:

The object of this Contract is to provide current technology equipment to ensure the Safe and Efficient running of an electric train service on the line between Plovdiv and the Greek / Turkish borders which is interoperable with the other EU countries and provides an important link in transportation corridors IV and IX between Europe and Asia and between the Mediterranean ports and Russia.

Scope of Contract for ISAF S.A.:

SCADA Systems work for the Plovdiv-Svilengrad Railway Electrification and Upgrading of Corridors IV and IX represents installation services of the optical fiber and materials delivery.

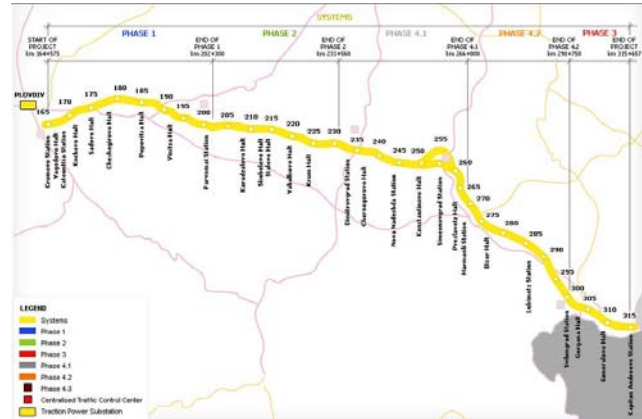
Contract value: 330k €

Term: on going

Average staff number : 6 / month

Machines : 1 draisine, 1 HIAB, 1 car

Safety: zero incidents, zero accidents



SCADA Systems for the whole line

ISAF S.A. is performing works at a high standard of professionalism and delivers materials and equipment manufactured by our factory.

To achieve the new Signalling, Telecommunications and SCADA Systems are being installed for the whole line from Plovdiv to Svilengrad and the Turkish and Greek borders including the appropriate connections to the existing Bulgarian, Turkish and Greek Signalling, Telecommunications and SCADA Systems.

We have installed optical fiber aerial ADSS, in HDPE pipe, in buildings, in bridge crossing and attached to building, on a route consists of Krumovo, Katunitsa, Parvomay, Dimitrovgrad, Harmanli, Svilengrad and we have delivered commissioning and testing services as well as any other type of related services which were necessary for the proper and full completion of the works.

