

# CHIRAJARA ROAD PROJECT

## Slope Stabilization and Tunneling



### Location

Chirajara-Villavicencio road,  
Colombia

### Client

National Agency of  
Infrastructure

### Contractor

Coviandina SAS

### Field of application

Anchor and contact grouting

### Products used

5 units of IC325

### Throughput

2 m<sup>3</sup>/h per plant

### Delivery of plant

Staggered delivery between  
2015 and 2017

### Sales contact

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This megaproject includes the operation and maintenance of a new road between the Chirajara village and the Founders intersection in the city of Villavicencio, with a total length of 32.08 km, along which users will be able to make use of sixteen bridges and seven tunnels.

### Background

Coviandina SAS is the company responsible for the execution of Concession Contract No. 005 of June 9, 2015, signed with the National Agency of Infrastructure (ANI), which includes the construction, operation, and maintenance of a new road between the Chirajara village and the Founders intersection in the city of Villavicencio. This megaproject will be carried out without contributions from public resources. Coviandina contributes to the development of road infrastructure in Colombia.

### The challenge

The new Chirajara-Villavicencio road has a current estimated total length of 22.6 km, set to be extended to 32.08 km, along which users will be able to make use of sixteen bridges and seven tunnels. This infrastructure work will bring more products from the Oriental Plains to the country's capital, and the new road project will substantially increase the mobility conditions in the region, generating shorter travel times, high levels of service, and offering excellent safety conditions during operation. The total construction period is estimated at five years.



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### Our solution

Imocom Constuccion, the local Häny distributor, entered into discussions with the executing contractor. On the strength of these discussions, the customer opted for a total of 5 IC325 Häny compact grout plants. The Häny equipment is being used in particular for the grouting sections, where the quality of the grout is important and a high performance and reliability of the injection process is required. A typical mixing recipe for the grouting works for which the Häny plants are being used in this project consists of 32 liters of water and 85 kg of cement. The typical injection pressure ranges from 20 bars to approx. 40 bars and, depending on the ground conditions, some of the holes require up to 5,100 kg of material. The construction works are scheduled for completion in 2021.

### Reliable systems and services from Häny

The Häny grout plants were chosen thanks to the company's reputation for reliable and high-performance equipment, which the customer had already experienced first-hand on other jobs. In addition, the availability of the local support through Imocom, plus the fact that Imocom was able to offer a full package including shotcrete equipment and concrete pumps as a complete solution, were further contributing factors in the customer's decision to choose Häny.

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