

# Robit

## Success Stories in Asia

Anseong~Guri #7, South Korea

Himachal Pradesh, India

Rishikesh-Karnaprayag Railway, India

Bhanupali - Bilaspur - Beri, India

Quang Nam Province, Vietnam

Ras al Khaima, UAE

Plered, Purwakata, Indonesia

Bayah, Indonesia







## Buiding Up the Longest Tunnel in India



**Robit is supplying forepoling systems and MIPL casings for tunnel roof supporting, and rock drilling consumables for face drilling to RVNL Package – 5.**

The **Rishikesh–Karnaprayag Railway** runs from Yog Nagari Rishikesh railway station in Rishikesh to Karnaprayag. The ₹16,200 crore project will shorten travel time from Rishikesh to Karnaprayag from 7 hours to ~2 hours. A 15-kilometre tunnel, reported to be the country's longest, will be built between Devprayag and Lachmoli.

The proposed 125-kilometre stretch will have 12 stations, 17 tunnels and 35 bridges. The design consultancy contracts for tunnels are provided by Lombardi Engg, Yuksel, AECON.

The package 5 is being constructed by Navayuga Engineering Company Limited. It consists of 2 tunnels (Tunnel No. 9 & 10). Tunnel No. 9 from Laksh Moli to Maletha is 2.8 km and Tunnel No. 10 from Maletha to Rani Hatt is 4.1 km, including escape tunnels. The current geology found in both tunnels is RBM (soft rock with mixture of sand). The difficulties faced during forepoling and drilling were majorly due to RBM with big boulders of phyllite and quartzite.

The NATM method is being used to construct the tunnel. Currently the daily advancement is 6 metres per day. We are proud to report that Robit forepoling systems together with MIPL casings are approved at RVNL and are being successfully used by the contractor.

*Contractor: Navayuga Engineering Company Limited  
Design Consultancy: Lombardi Engg, Yuksel, AECON*

## NH21 Project is Running Smoothly with Robit's Products



**Robit is supplying forepoling systems and MIPL casings for tunnel roof supporting, and rock drilling consumables for face drilling to NHAH (NH21) project.**

The 4 laning road of NH21 stretches from Pandoh Bypass to Takoli section in Himachal Pradesh. The project worth of ₹ 2600 crore will reduce time and traffic as well as streamline movement of vehicle from Delhi to Leh. The project started in March 2018. The tunnel network of 21-kilometres consists of 10 tunnels, out of which 5 tunnels totaling 15 km have been completed.

The project is being constructed by Afcons Infrastructure Limited. The geology consists mainly of Class D (more than

50%). Robit is supplying forepoling systems together with MIPL casings of 76.1 mm for roof supporting. The Robit consumables have been found successful in making tunnels. The project is currently running smoothly and expected to be completed by next year.

Through its distributor MIPL, Robit has also tested rock drilling consumables, which have also proved to be successful by achieving more lifetime in terms of meterage compared to other brand products. Now most of the rock drilling consumables of this project are provided by Robit. Additionally, the economical products increase customer satisfaction.

*Contractor: Afcons Infrastructure Limited*





**Robit is supplying forepoling systems and MIPL casings for tunnel roof support to RVNL project Bhanupali - Bilaspur - Beri New Rail Line project.**

The **Bhanupali - Bilaspur - Beri New Rail Line project** is being constructed with NATM method. The project is located in Himachal Pradesh. There are in total 7 tunnels being constructed from Bhanupali - Bilaspur - Beri. The government has also further plan to extend this broad-gauge line till leh via Kullu-Manali. The project has been awarded to Max Infra (I) Limited at ₹ 435 crore. The total length of the tunnel is 3.5 km. The geology consists mainly of sand, stone and soft rock. The contractor has till date completed 1200 metres tunnel by mainly using 114.3 mm Robit forepoling systems together with MIPL casings. The project is running smoothly. The contractor is using 6 Epiroc Drill Jumbos to install the forepoling at different tunnel faces. The contractor is achieving a daily advancement of 3 metres.

*Contractor: Max Infra (I) Limited*



## Tunnelling the New Rail Line from Bhanupali - Bilaspur to Beri



**"Dajoo Industry" (called Dajoo) is supplying Robit Top Hammer drilling tools in highway tunnel called Anseong~Guri #7.**

Currently, Anseong~Guri highway is one of the biggest SOC projects in South Korea. Anseong~Guri highway is part of the Pocheon~Sejong project, which connects administrative city, Sejong with capital city, Seoul and northern industrial city, Pocheon. #7 is a 2-way highway of 1.7 km. Client organization is EX (Korea Expressway Corporation) and constructor is Samwhan. Drilling period is approx. 24 months. Robit distributor Dajoo has wide experience in rock tools business. Dajoo supplies to around 70 sites, which contain tunneling, quarrying and surface drilling. Robit and Dajoo have been working together since 2015. Dajoo has constantly increased sales volume year by year. In 2020, Dajoo has become one of the main distributors in South Korea and will increase Robit share consistently. Rock condition is granite and medium hard rock. Drilling machine is Epiroc XE3C (COP1838). Dajoo expects the site to consume 1,200 pcs of 45 mm bits, and 150 sets of drill string.

*Distributor: Dajoo Industry*

*Robit consumables: Button bit – HTG 34RR045 S2,Ball, Rod – T38\*RR34\*5525 (HEX35), Shank – COP1838 C38\*435, Coupling – C38 SB*



**In June 2020, the distributor of Robit in Viet Nam - Dong Loi Equipment & Services Corporation organized a drilling test at Dak Mi 2 hydroelectric tunnel in Quang Nam Province.**

Robit and other well-known brands from China and Japan were tested in this site. The test was conducted on a Sandvik DT821 drilling machine with both sides of drill hammer, left and right. The drilling parameters were identical for each brand. The test was conducted to determine the highest working life each tool could reach in the same testing conditions. The structure of tunnel is concrete on the hard rock formation. After a few days, the results of all brands were published. Robit Drifter Rod R32/T38, L=4.9 m completed the service life at 2,300 meters in the left and 3,200 meters in the right of drill hammer. With these results Robit reached from 500 meters to 700 meters better performance than rods by other well-known brands. The customer was very satisfied with the performance of Robit Drifter Rod. They appreciated its quality and will give the priority for using Robit Rod in the future.

*Test Location: Dak Mi 2, Hydroelectric Tunnel, Quang Nam Province, Jun 2020*  
*Test Objective: Measuring performance of Robit Drifter Rod R32/T38, L=4.9m vs. other well known drilling consumable brands.*  
*Reported by: Pham Quoc Binh, Sale Manager at Dong Loi Corp.*



## Drilling Anseong~Guri #7 Tunnel within ab. 24 Months



## Robit's Successful Test Results in Vietnam





**As Indonesia continues to see a rising trend in the number of COVID-19 infected cases, the country especially Jakarta as the capital city where infections are the highest, continues to face a challenge to balance between containing the pandemic while maintaining the economy's sustainability.**

**PT. Marton Tekindo Abadi** as Robit's distributor in Indonesia continues to show its highest level of professionalism and support for its clients across Indonesia amidst the pandemic. By complying with the protocols and regulations issued by the government and obtaining the necessary permits to continue business operations, Marton is able to continue supporting customers' consumables needs across Indonesia.

Together with the support of Robit, Marton is able to maintain its supply and technical support to the customers. During these times, we believe that it is even more important to show our commitment and ability to support our customers to fortify the customers' trust towards Marton and Robit. With a good teamwork between Marton and Robit, we are able to seize this moment as an opportunity to strengthen our presence in the market.

\*Note: We highlight 2 customers here that are still operating during this pandemic one from aggregate quarry and another from cement quarry.

## Effective results in Aggregate Andesite Quarry



## Going deeper in Cement Quarry, Bayah, Indonesia



### PT SUMBER TIGA PERMATA

PT Sumber Tiga Permata (PT STP), a long-standing and loyal customer of Marton, got acquainted with Robit drilling consumables when Marton and Robit started a distributor partnership. Being satisfied with Robit product performance, the co-operation continues with Robit drilling consumables.

- 2 pneumatic drills of Furukawa PCR200 are in use in three of PT STP's quarry locations
- In total, 6 units are in operation
- As PT STP puts after-sales service in high regards, it is satisfied with the quality of Robit rock tools' performance as well as the after-sales support receiving from Marton and Robit.

*Segmentation: Aggregate Andesite Quarry  
Location: Plered, Purwakata*

### PT CEMINDO GEMILANG

PT Cemindo Gemilang is one of the major cement producers in Indonesia, known for its brand "Semen Merah Putih"

- 5 hydraulic drills: 3 units Soosan CSM (ex Junjin CSM) supplied by Marton, 2 units Epiroc hydraulic drills and 2 pneumatic drills from Furukawa PCR200  
- 4" bits are used at site
- Cement plant capacity in Bayah is able to produce up to 4 million tons of cement per year
- Marton supplied 3 units of Soosan CSM Top Hammer hydraulic drills, and Cemindo uses also Robit rock tools across its multi-brand drill rigs
- Cemindo continues to be a committed customer of Robit, as our distributor partnership ensures a sufficient stock for the customer's production and also provides excellent after-sales technical support.

*Segmentation: Cement Quarry  
Location: Bayah*



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