

## BASIC - TUNNEL BLASTING

In Malaysia, tunnel blasting is not as common as surface blasting or open pit quarry mining which we are more familiar with. It requires expertise works in the civil engineering sector.

There are several steps for the process of tunnel blasting:

### 1) Drilling & Preparation For Blasting



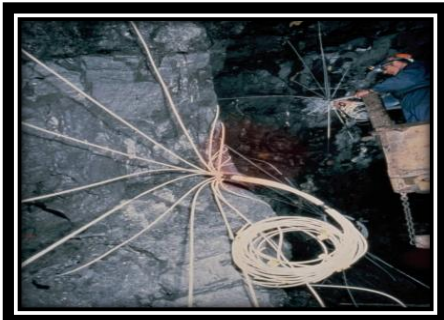
### 2) Priming & Loading Of Emulex



Beside cartridge product, “pumpable - underground bulk emulsion” is used with the objectives to overcome the nature imperfections of cartridge product such as de-coupling effects, relatively longer charging time, labor intensive and relatively higher costs.



### 3) Making Bunches With Nonel System And Ready For Fire



*Above pictures are adopted from Nitro Nobel*

Over the last few years, tunnel blasting activities have increased considerably, in the local as well as regional market. Our in-house R&D Engineers have developed few types of Underground Pumping Machine (UPM) in order to suit the different charging environment.

We are also providing Electronic Detonator for critical blasting area to reduce vibration.

Our experts are always here to offer you professional advices which can suit to your requirements.

Kindly contact us at : [enquiry@tenagakimia.com](mailto:enquiry@tenagakimia.com)

With your support, we can continue to improve our services to the drill and blast operations.