

JAPAN

Hai Van Pass Tunnel Construction Project

- The Hai Van Pass Tunnel, a 6.3km long highway tunnel with the first application of NATM technology in Vietnam, is scheduled to open to the public in May 2005, expecting to improve the main north-south road corridor, National Highway No.1, in Central Vietnam, and to contribute to the rapid development of national economy.



North Portal (View from North Toll Plaza)



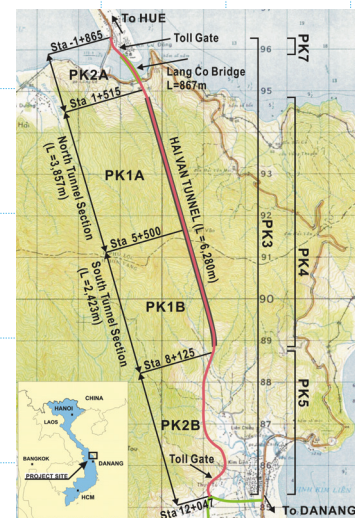
Sliding Form for the Main Tunnel (L = 12m)



Tunnel Ventilation System

- Project Length: 12,182m
- Traffic Lane: 2 Lanes
3.75 +1.25 shoulder. Total 10.0m
- Tunnel Length: 6,280m (Main Tunnel, MT)
6,286m (Evacuation Tunnel, ET)
1,888m (Ventilation Adit, VA)
- Tunneling Method: New Austrian Tunneling Method (NATM)
- Cross-section: 89m² (MT), 15.5 (ET), 36.2 (VA)
- Cross-Passage: 400m interval
- Ventilation System: Longitudinal System, 23 Jet Fans, 3 EPs, 1 VA

Project Major Features



Project Location Map



Nippon Koei Company Limited (Japan)