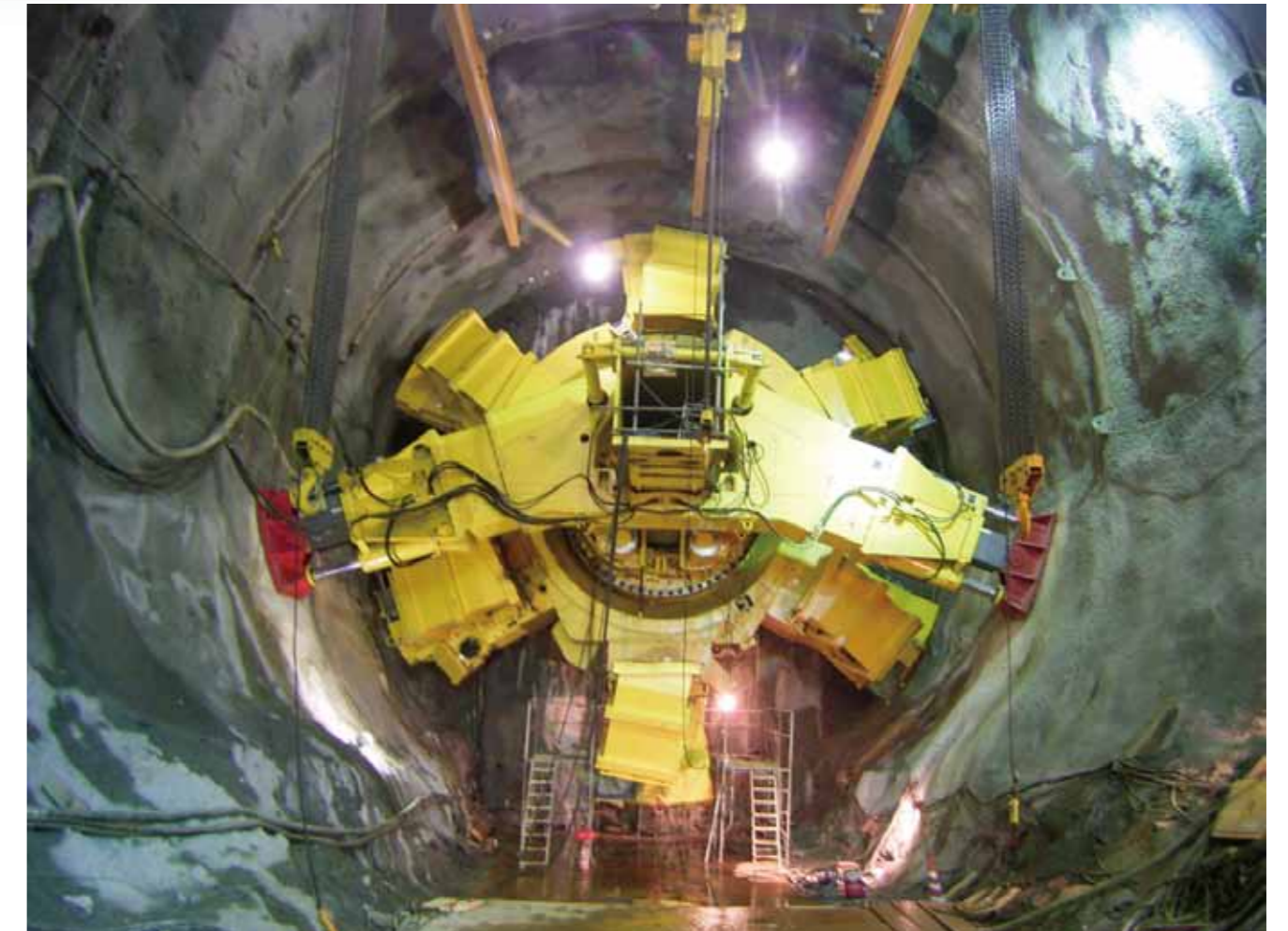


TBM Work in Mountain Tunnel

산악 터널에서의 TBM시공 실적

Major TBM Construction Results in Mountain Tunnels

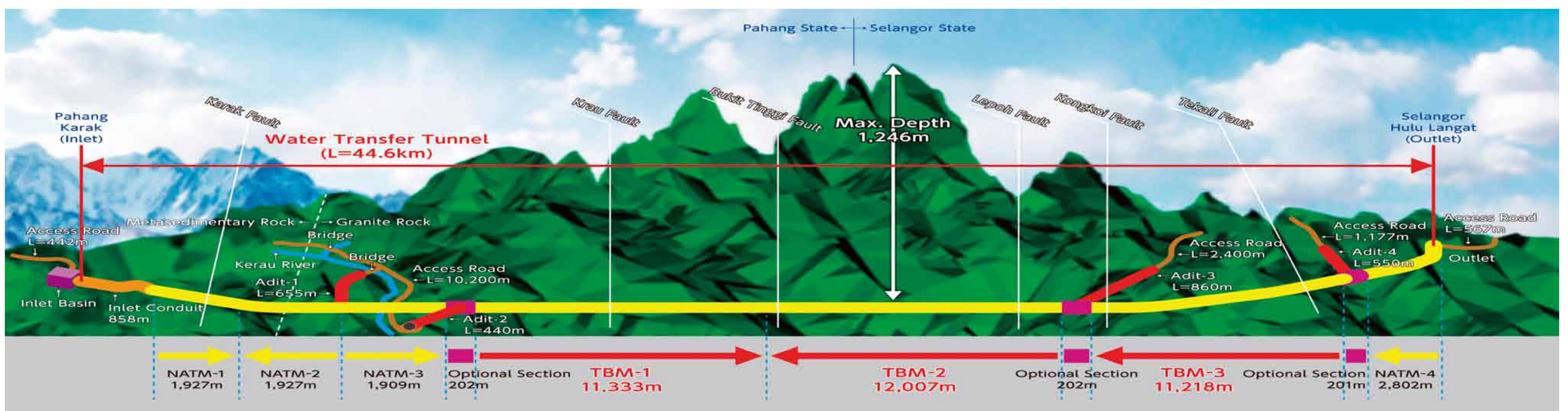
Projects	Diameter	Length	Completion
Pahang-Selangor raw water transfer tunnel (Malaysia)	5.2m	34,620m	2014
Yamba Tunnel (Japan Railway Agatsuma Line)	6.8m	4,124m	2008
Atsumi refuge tunnel (Nihonkai-Engan-Touhoku Expressway)	4.5m	6,024m	2007
Hachiouji-Jyoseki Tunnel (KEN-O Expressway)	12.2m	1,086m	2007
Konan Tunnel (New-Meishin Expressway)	5.0m	2,531m	2006
Fujikawa Tunnel (New-Tomei Expressway)	5.0m	4,434m	2005



TBM(Reaming Type)
(Hachiouji-Jyoseki Tunnel)

Pahang-Selangor Raw Water Transfer Project (Malaysia)

Shimizu Corp. constructed the longest tunnel in Southeast Asia, 44.6km length, which can supply 1.9million m³/day of raw water from Pahang State to Kuala Lumpur and the surrounding area (Selangor State). 3 Tunnel Boring Machines excavated 34.6km length of this 44.6km long tunnel.



Overcome 3 major geological issues and Completion



Heavy ingress water
(Max. 24.6m³/min)



Rock burst at high
overburden area (over 800m)



High rock temperature
(Max. 55°C)

