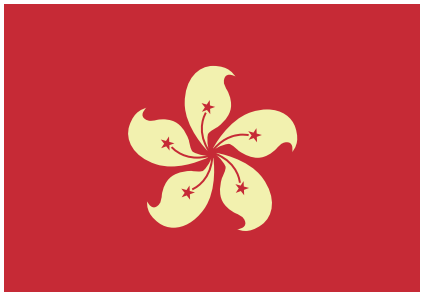
Construction Revolution

Press-in Achievement

in Hong Kong

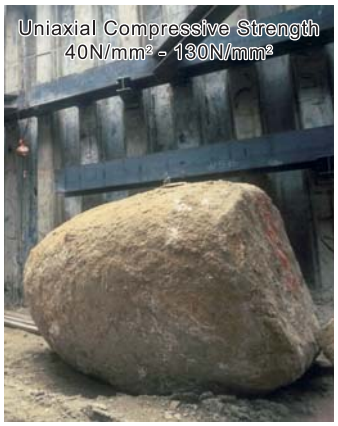


GIKEN

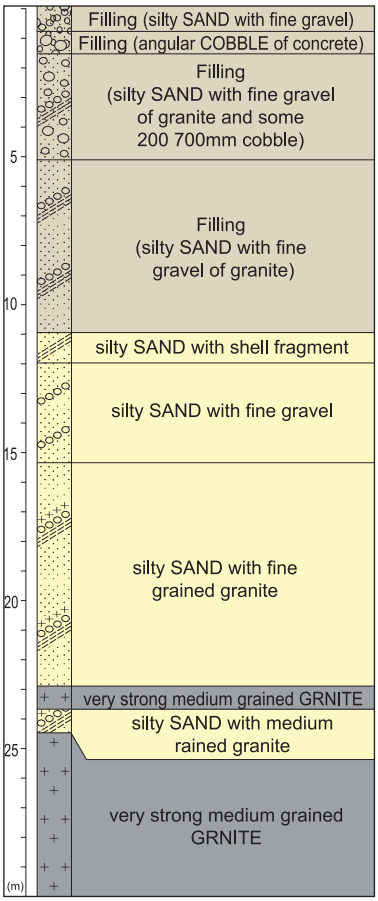
GIKEN HONG KONG PROJECT REFERENCE

	Project Name	Main Contractor	Start	End
1	KCRC KSL Contract KCC210 Middle Road Subway Extention	Kumagai Nishimatsu Joint Venture	Apr 08	May 08
2	Sheung Wan Stormwater Pumping Station	China National Chemical Engineering Group Corporation	Nov 06	Jun 07
3	Kowloon Southern Link Contract No. KDB200	LINK 200 JV	Feb 06	Jun 06
4	KIL 11124, Homantin, Kowloon	Gammon-Homantin	Oct 05	Apr 06
5	KIL 11151, Olympic Station Development	Sunley Engrg & Construction Co Ltd	May 05	Aug 05
6	Castle Peak Road Improvement Project	Maeda Corporation HK	Feb 05	Feb 05
7	Stonecutters Bridge-West Tower	MHYH JV	Dec 04	Oct 06
8	Stonecutters Bridge-East Tower	MHYH JV	Jul 04	Dec 04
9	Route 8, Ngong Shuen Chan Viaduct	China Harbour Engineering	Mar 04	Jul 07
10	Sheung Shui to Chau Tau Tunnels	Intrafor - BSGL JV	Jan 04	Apr 04
11	LDB201 KCRC East Rail Extension	Dragages (HK) JV	Jan 04	Feb 05
12	Road T3 & Associate Roadwork	MBH Joint Venture	Oct 03	Jun 06
13	Tsz Wan Shan Cable Tunnels	Dragages (HK) JV	Aug 03	Sep 03
14	LDB201 KCRC East Rail Extension	Dragages (HK) JV	Mar 03	Jun 03
15	DC/99/05 West Kowloon Drainage Improvement	China Harbour Transfield JV	Feb 03	Apr 04
16	HK Disneyland	Taisei-Hip Hing JV	Dec 02	Feb 03
17	Route 9, Ngong Shuen Chan Viaduct	China Harbour Engineering	Nov 02	Feb 04
18	KCRC CC609	Costain-China-Harbour JV	Oct 02	Oct 02
19	MTRC 4420	Kumagai Gumi (Hong Kong)	Sep 02	May 04
20	KCRC2001-0025	Kumagai Gumi (Hong Kong)	Nov 01	Aug 02
21	MTRC-521 Kowloon Tong	Maeda Corporation HK	Nov 01	Dec 01
22	KCRC HCC302	Gammon-Nishimatsu JV	Jun 01	Apr 03
23	TCC400 Tai Wai	Maeda Corporation HK	Feb 01	Jun 01

KCRC HCC302



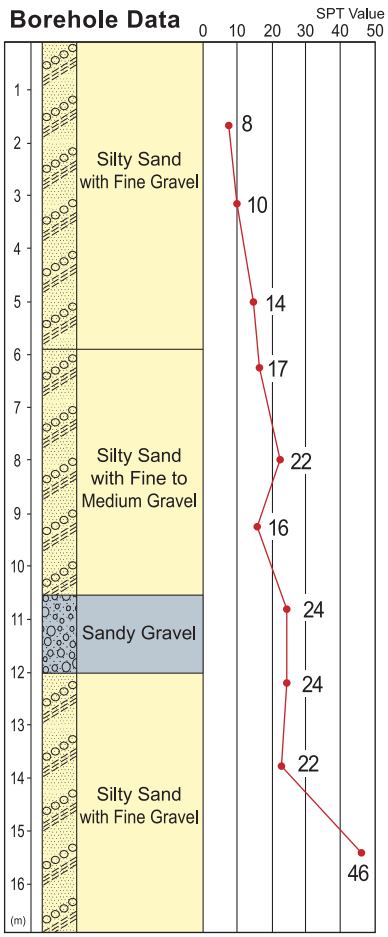
Borehole Data



Type of Project	Construction of East Tsim Sha Tsui Station and pedestrian subway
Purpose of Piling	Temporary Retaining Wall
Site Location	Tsim Sha Tsui, Kowloon, Hong Kong
Duration of Work	June to December 2001
Client	Kowloon-Canton Railway Corporation
Piling Contractor	Giken Seisakusho Asia Pte., Ltd.
Press-in System	Press-in Method with Simultaneous Augering
Press-in Material	U Steel Sheet Pile SP-IV L=29.0m
Press-in Machinery	Super Crush U Piler SCU-400M
Method Description	Cobbles (ϕ200-700mm) contained. Minimum working space. Vibration free safety operation adjacent to existing structure. No temporary working platform..

Route 8, Ngong Shuen Chan Viaduct

Type of Project	Construction of Viaduct
Purpose of Piling	Temporary Cofferdam for Bridge Piers
Site Location	Ngong Shuen Chau, Kowloon, Hong Kong
Duration of Work	July 2004
Client	Highway Dept. of Hong Kong
Piling Contractor	Giken Seisakusho Asia Pte., Ltd.
Press-in System	Press-in Method with Water Jetting
Press-in Material	U Sheet Pile SP-III L=6.0 - 16.0m
Press-in Machinery	U Piler SA150 with JR, U Piler ECO1004C
Method Description	Vibration free operation close to existing railway and road. Silent Piler does not need working platform on a slope.



U Sheet Pile SP-III L= 16.0 m

KCRC KSL Contract KCC210 Middle Road Subway Extention

Main Contractor	Kumagai Nishimatsu JV	Duration of Work	Apr 08 to May 08

Sheung Wan Stormwater Pumping Station

Main Contractor	China National Chemical Engineering Group Corporation	Duration of Work	Nov 06 to Jun 07

KIL 11124, Homantin, Kowloon

Main Contractor	Gammon-Homantin	Duration of Work	Oct 05 to Apr 06

KIL 11151, Olympic Station Development

Main Contractor	Sunley Engrg & Construction Co Ltd	Duration of Work	May 05 to Aug 05

Stonecutters Bridge-West Tower

Main Contractor	MHYH JV	Duration of Work	Dec 04 to Oct 06

Stonecutters Bridge-East Tower

Main Contractor	MHYH JV	Duration of Work	Jun 04 to Dec 04

LDB201 KCRC East Rail Extension

Main Contractor	Dragages (HK) JV	Duration of Work	Jan 04 to Feb 05

Road T3 & Associate Roadwork

Main Contractor	MBH Joint Venture	Duration of Work	Oct 03 to Jun 06

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Main Contractor	Dragages (HK) JV	Duration of Work	Mar 03 to Jun 03

HK Disneyland

Main Contractor	Taisei-Hip Hing JV
Duration of Work	Dec 02 to Feb 03

TCC400 Tai Wai

Main Contractor	Maeda Corporation HK
Duration of Work	Feb 01 to Jun 01

Route 9, Ngong Shuen Chan Viaduct

Main Contractor	China Harbour Engineering	Duration of Work	Nov 02 to Feb 04

THE FIVE CONSTRUCTION PRINCIPLES

If we analyse all the parties involved in any construction work, we can categorise them into three main groups: the client, the contractor and the general public. The ideal situation is when all three parties are in agreement and satisfied with the successful outcome of the construction work. Problems arise when one of the parties becomes a victim of imbalance in this relationship. The conventional construction methods based upon principles that “more is paid for less efficient work” are no longer appropriate to present-day society. Universally acceptable construction methods must embody the Five Construction Principles.

Environmental Protection	Construction work should be environmentally friendly and free from pollution.
Safety	Construction work has to be carried out in safety and comfort with a method implementing the highest safety criteria.
Speed	Construction work should be completed in the shortest possible period of time.
Economy	Construction work must be done rationally with an inventive mind to overcome all constraints at the lowest cost.
Aesthetics	Construction work must proceed smoothly and the finished product should portray cultural and artistic flavour.

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