

Appendix 4.9A
**Plant List of the Concurrent
Projects**

Appendix 4.9A - Sound Power Level of the Concurrent Projects

Trenchless Cable Duct Crossings at Nga Cheung Road

Stage 1

PME	CNP Code	SWL, dB(A)	No. of Plant	% on time	Sub-toal, dB(A)	Total SWL, dB(A)
Dump truck, 5.5 tonne < gross vehicle weight <38 tonne	CNP 068	105	1	50%	102	115
Lorry	CNP 141	112	1	50%	109	
Generator, standard	CNP 101	108	1	80%	107	
Excavator, mini-robot mounted	CNP 082	94	2	50%	94	
Breaker, hand-held, mass>35 kg	CNP 026	114	1	60%	112	

Stage 2

PME	CNP Code	SWL, dB(A)	No. of Plant	% on time	Sub-toal, dB(A)	Total SWL, dB(A)
Generator, silenced	CNP 102	100	1	80%	99	110
Asphalt Paver	CNP 004	109	1	50%	106	
Road Roller	CNP 185	108	1	50%	105	
Power Rammer (petrol)	CNP 169	108	1	50%	105	



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Dear Sirs,

Outline Agreement No. 4600003274
Transmission Cable Route Selection Consultancy Services
Feasibility Study of Trenchless Cable Duct Crossings at Nga Cheung Road
(Project No.12270)

We have been commissioned by CLP Power Hong Kong Limited to carry out a feasibility study for construction of three cable duct crossings by trenchless method along the northbound lane of Nga Cheung Road. The cable duct crossings are used to house new 132kV cable circuits which form parts of electricity supply for the development of West Kowloon Cultural District. The construction works are scheduled to commence in the second quarter of 2013 and expected to be complete by mid 2015.

As requested by Urban Region (Kowloon), Highways Department, we are pleased to enclose for your comment a copy of Drawings regarding the optimum alignment and sectional profile of the proposed cable duct crossings.

Due to tight project programme for the study, we shall be grateful for your provision of comments on the proposed cable duct crossing by **14 September 2012**. Your early reply will be much appreciated. Should you have any queries, please do not hesitate to contact our Mr. K. L. Tse or Mr. Jeremy Wong at 2601 1000.

Yours faithfully,
for and on behalf of
BLACK & VEATCH HONG KONG LIMITED

ANDY Y. KWOK
PROJECT MANAGER

Encl.

cc: CLP Power/EPD – Attn: Messrs. L. T. Chow / K.P. Lau

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Distribution List

West Harbour Tunnel Company Limited
Administration Building,
Western Harbour Crossing,
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For the attention of Mr. Keith Kong

✓ Parsons Brinckerhoff (Asia) Limited
7/F, One Kowloon
1 Wang Yuen Street,
Kowloon Bay,
Kowloon
(Consultant of Agreement No. CE44/2011(HY))

Likely Powered Mechanical Equipment for Construction of the CSBCSPS, DWFI compound and associated facilities
[Mitigation 1- Quiet Plant]

Sheet Piling

Type of PME	TM Code / Other reference	Number of Equipment	SWL, dB(A)	Assume Percentage of On-time Usage	Summation of SWL, dB(A)	Total SWL, dB(A)
Piling, vibrating hammer	*	1	115	80%	114	114

Excavation

Type of PME	TM Code / Other reference	Number of Equipment	SWL, dB(A)	Assume Percentage of On-time Usage	Summation of SWL, dB(A)	Total SWL, dB(A)
Excavator/loader, wheeled/tracked	*	1	94	80%	93	104
Dump truck [1]	*	1	105	80%	104	

Modification Works for Existing Box Culvert (Only for DWFI compound and associated facilities)

Type of PME	TM Code / Other reference	Number of Equipment	SWL, dB(A)	Assume Percentage of On-time Usage	Summation of SWL, dB(A)	Total SWL, dB(A)
Saw/Groover, Concrete (petrol)	203	1	115	80%	114	114
Water pumps, submersible (electric)	283	1	85	80%	84	

Construction of Substructure/Structure

Type of PME	TM Code / Other reference	Number of Equipment	SWL, dB(A)	Assume Percentage of On-time Usage	Summation of SWL, dB(A)	Total SWL, dB(A)
Crane, mobile/barge mounted (diesel)	QPME-EPD-01058	1	107	80%	106	110
Concrete lorry mixer	044	1	109	60%	107	
Poker, vibratory, hand-held	*	1	102	80%	101	

Backfilling and Extraction of Piles

Type of PME	TM Code / Other reference	Number of Equipment	SWL, dB(A)	Assume Percentage of On-time Usage	Summation of SWL, dB(A)	Total SWL, dB(A)
Excavator/loader, wheeled/tracked	*	1	94	75%	93	109
Dump truck [1]	*	1	105	80%	104	
Compactor, vibratory	050	1	105	80%	104	
Crane, mobile/barge mounted (diesel)	QPME-EPD-01058	1	107	70%	105	
Piling, diaphragm wall, hydraulic extractor	163	1	90	80%	89	

E&M Installations

Type of PME	TM Code / Other reference	Number of Equipment	SWL, dB(A)	Assume Percentage of On-time Usage	Summation of SWL, dB(A)	Total SWL, dB(A)
Crane, mobile/barge mounted (diesel)	QPME-EPD-01058	1	107	90%	107	109
Lorry [2]	*	1	105	85%	104	

Finishing and Landscaping Works

Type of PME	TM Code / Other reference	Number of Equipment	SWL, dB(A)	Assume Percentage of On-time Usage	Summation of SWL, dB(A)	Total SWL, dB(A)
Excavator/loader, wheeled/tracked	081	1	112	50%	109	111
Crane, mobile/barge mounted (diesel)	QPME-EPD-01058	1	107	60%	105	
Lorry [2]	*	1	105	80%	104	

Notes:

SWL = Sound Power Level of a Powered Mechanical Equipment (PME)

TM = Technical Memorandum on Noise from Construction Work other than Percussive Piling

* = Sound Power Levels of Other Commonly Used PME (Source: Guidance Notes for Licence Application in EPD website)

QPME = Quality Powered Mechanical Equipment (Source: An Administrative System on the Use of QPME in EPD website)

[1] = Dump truck, with grab (5.5 tonne < gross vehicle weight < 38 tonne)

[2] = Lorry with crane/grab (5.5 tonne < gross vehicle weight < 38 tonne)

