

APPENDIX 8C

**Tentative Programme of
C&D Materials from
Other projects and
Demand of Public Fill in
HKLR and HKBCF**

**Preliminary Estimate of Excavated Materials from
MTRC Railway Projects (4 May 2009)**



Projects	Construction Methods	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
WIL	TBM (soft & rock)	-	-	-	-	-	-	-	-	-	-	-
	D&B Tunnel (rock)	-	0.25	0.61	0.01	-	-	-	-	-	-	0.87
	Others (soft material)	-	0.13	0.38	0.04	-	-	-	-	-	-	0.56
	Others (rock)	-	0.03	0.08	0.02	-	-	-	-	-	-	0.13
	Total	-	0.42	1.08	0.07	-	-	-	-	-	-	-
SIL(E)	TBM (soft & rock)	-	-	-	-	-	-	-	-	-	-	-
	D&B Tunnel (rock)	-	-	0.75	0.77	0.06	-	-	-	-	-	1.58
	Others (soft material)	-	0.09	0.62	0.17	0.10	0.02	-	-	-	-	1.01
	Others (rock)	-	0.01	0.23	0.20	0.14	0.05	-	-	-	-	0.63
	Total	-	0.10	1.60	1.15	0.30	0.07	-	-	-	-	-
SCL (EWL)	TBM (soft & rock)	-	-	-	-	0.30	0.15	-	-	-	-	0.45
	D&B Tunnel (rock)	-	-	-	0.17	0.51	0.14	-	-	-	-	0.82
	Others (soft material)	-	-	0.65	1.49	1.02	0.36	0.20	-	-	-	3.72
	Others (rock)	-	-	0.01	0.03	-	-	-	-	-	-	0.04
	Total	-	-	0.65	1.68	1.84	0.65	0.20	-	-	-	-
SCL (NSL)	TBM (soft & rock)	-	-	-	0.02	0.06	0.07	0.05	0.005	-	-	0.21
	D&B Tunnel (rock)	-	-	-	0.02	0.06	0.08	0.06	0.01	-	-	0.23
	Others (soft material)	-	-	-	0.21	0.52	0.70	0.47	0.04	-	-	1.94
	Others (rock)	-	-	-	0.05	0.12	0.15	0.10	0.01	-	-	0.43
	Total	-	-	-	0.31	0.76	1.01	0.67	0.06	-	-	-
KTE	TBM (soft & rock)	-	-	-	-	-	-	-	-	-	-	-
	D&B Tunnel (rock)	-	-	0.17	0.52	0.08	-	-	-	-	-	0.78
	Others (soft material)	-	-	0.47	0.26	0.02	-	-	-	-	-	0.75
	Others (rock)	-	-	0.08	0.31	0.04	-	-	-	-	-	0.43
	Total	-	-	0.71	1.10	0.15	-	-	-	-	-	-
XRL	TBM (soft & rock)	-	-	0.57	2.41	0.09	-	-	-	-	-	3.06
	D&B Tunnel (rock)	-	0.62	2.68	3.78	-	-	-	-	-	-	7.08
	Others (soft material)	-	1.08	4.69	2.91	0.46	-	-	-	-	-	9.14
	Others (rock)	-	-	-	0.37	0.60	-	-	-	-	-	0.97
	Total	-	1.70	7.93	9.48	1.14	-	-	-	-	-	-
Sub-total	TBM (soft & rock)	-	-	0.57	2.43	0.45	0.22	0.05	0.005	-	-	3.73
	D&B Tunnel (rock)	-	0.87	4.20	5.28	0.72	0.22	0.06	0.01	-	-	11.35
	Others (soft material)	-	1.30	6.81	5.09	2.13	1.09	0.67	0.04	-	-	17.13
	Others (rock)	-	0.04	0.40	0.97	0.89	0.20	0.10	0.01	-	-	2.63
	Total	-	2.21	11.98	13.78	4.19	1.73	0.88	0.06	-	-	-

Fill Demand

	Fill Type	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
HKLR	General Fill			0	2.5	0.2	0	0			
	Rock Fill			0.4	0.28	0	0	0			
HKBCF	General Fill			0.45	12.05	4.3	0.65	0			
	Rock Fill			5.05	1.75	0	0	0			
Total	General Fill			0.45	14.55	4.5	0.65	0			
	Rock Fill			5.45	2.03	0	0	0			

Notes:

- 1) All figures are in Million Metric Tonne.
- 2) The estimates are indicative only and subject to change in conjunction with the detailed design.
- 3) Assumption: Unit weight of soft material = 1.84 metric tonnes/m³;
Unit weight of rock: 2.65 metric tonnes/m³;
Unit weight of TBM material = 2.25 metric tonnes/m³