

Annex 5F-1b: Construction Noise Assessment - Predicted Noise Levels from Mainlaying - Trenchless (Mitigated Scenario)

NSR	NSR Location	Pipe jacking SWL [3]	Closest pipe jacking works area	Distance to pipe jacking works area ^[3]	Correction for distance ^[2]	Correction for screening	Correction for façade	Predicted CNL, dB(A) ^{[1][3][4]}
LP1	Lohas Park Tower 1	104	Pipe Jacking Works Area 3	72	-45	0	3	62
			Pipe Jacking Works Area 4	270	-57	0	3	51
							Total CNL	63
KMC1	King Ming Court	104	Pipe Jacking Works Area 5	23	-35	0	3	72
LP2	Lohas Park Tower 9	104	Pipe Jacking Works Area 4	40	-40	0	3	67
			Pipe Jacking Works Area 3	266	-56	0	3	51
							Total CNL	67

Notes:

- [1] 70/65 Noise criteria during normal school days / examination period
- [2] Distance Correction for PMEs = $10 \cdot \log(2 \cdot \pi \cdot r^2)$
- [3] The figures are rounded to a whole number.
- [4] **76** Predicted Noise Level exceeded the corresponding EIAO-TM noise criteria.

Annex 5F-2: Construction Noise Assessment - Predicted Maximum Cumulative Noise Levels from Mainlaying, Construction of Desalination Plant, Cross Bay Link and TKO Area 86 (With Mitigation)

NSR Location	EIAO-TM Noise Criteria dB(A) ^[1]	Predicted CNL, dB(A) ^{[2][3][4]}											Predicted Maximum Cumulative CNL, dB(A) ^{[2][3][4]}										
		Mainlaying										Desalination Plant	Cross Bay Link and TKO Area 86 ^[5]	Mainlaying, Desalination Plant Cross Bay Link and TKO Area 86									
		Sawcutting pavement	Breaking up of pavement	Excavation/Shoring	Pipe laying	Backfilling	Reinstatement (concrete)	Reinstatement (asphalt)	Painting of roading marking	Pipe jacking (trenchless)	Reinstatement (concrete)			Reinstatement (asphalt)	Painting of roading marking	Pipe jacking (trenchless)	Sawcutting pavement	Breaking up of pavement	Excavation/Shoring	Pipe laying	Backfilling	Reinstatement (concrete)	Reinstatement (asphalt)
a)	b)	c)	d)	e)	f)	g)	h)	i)			a)	b)	c)	d)	e)	f)	g)	h)	i)				
LP1	Lohas Park - Tower 1	75	70	71	74	70	73	68	74	57	63	49	67	72	73	75	72	74	70	75	68	68	

Notes:

[1] 70/65 Noise criteria during normal school days / examination period

[2] Distance Correction for PMEs = $10 \log(2^2/P1^2)$

[3] The figures are rounded to a whole number.

[4] **76** Predicted Noise Level exceeded the corresponding EIAO-TM noise criteria.

[5] Noise impact from Cross Bay Link and TKO Area 86 Development is taken from Section 6 of the approved Cross Bay Link EIA report AEIAR-172/2013