											Correction, dB(A)					
NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	78.4	0.0	-45.9	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	32.1		
		Exhaust Fan for PSC	99	4	105.0	100%	78.4	0.0	-45.9	-10.0	the PSC	-20.0	3.0	32.1		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	68.2	0.0	-44.7	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	30.3		
		Exhaust Fan for WTF	99	2	102.0	100%	68.2	0.0	-44.7	-10.0	the WTF	-20.0	3.0	30.3		
		Truck/Forklift for Loading 1	83	2	86.0	50%	50.8	-3.0	-42.1	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	33.9		
N1a	Hung Kiu San Tsuen	Truck/Forklift for Loading 2	83	2	86.0	50%	86.2	-3.0	-46.7	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	24.3	44.5	45
	130611	Truck/Forklift for Unloading 1	83	0	0.0	50%	41.4	-3.0	-40.3	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Unloading 2	83	0	0.0	50%	124.3	-3.0	-49.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	78.4	0.0	-45.9	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	36.1		
		Lorry (Delivery)	105	1	105.0	2.8%	41.9	-15.6	-40.4	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	42.0		
		Lorry (Collection)	105	0	0.0	2.8%	41.9	-15.6	-40.4	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	0.0		
		Exhaust Fan for De-	99	4	105.0	100%	85.9	0.0	-46.7	-10.0		-20.0	3.0	31.3		
		odourising Unit (PSC)		·							Fans will be fully screened by upper roof of the PSC					
		Exhaust Fan for PSC Exhaust Fan for De-	99	4	105.0	100%	85.9	0.0	-46.7	-10.0		-20.0	3.0	31.3		
		odourising Unit (WTF)	99	2	102.0	100%	66.7	0.0	-44.5	-10.0	Fans will be fully screened by upper roof of the WTF	-20.0	3.0	30.5		
		Exhaust Fan for WTF	99	2	102.0	100%	66.7	0.0	-44.5	-10.0		-20.0	3.0	30.5		
		Truck/Forklift for Loading 1	83	2	86.0	50%	63.0	-3.0	-44.0	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	32.0		
N1b	Hung Kiu San Tsuen	Truck/Forklift for Loading 2	83	2	86.0	50%	98.6	-3.0	-47.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	23.1	43.2	45
	100011	Truck/Forklift for Unloading 1	83	0	0.0	50%	43.6	-3.0	-40.8	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Unloading 2	83	0	0.0	50%	133.6	-3.0	-50.5	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	85.9	0.0	-46.7	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	35.3		
		Lorry (Delivery)	105	1	105.0	2.8%	50.0	-15.6	-42.0	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	40.4		
		Lorry (Collection)	105	0	0.0	2.8%	50.0	-15.6	-42.0	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	0.0		

											Correction, dB(A)					
NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	135.0	0.0	-50.6	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	27.4		
		Exhaust Fan for PSC	99	4	105.0	100%	135.0	0.0	-50.6	-10.0	the PSC	-20.0	3.0	27.4		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	114.7	0.0	-49.2	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	25.8		
		Exhaust Fan for WTF	99	2	102.0	100%	114.7	0.0	-49.2	-10.0	the WTF	-20.0	3.0	25.8		
		Truck/Forklift for Loading 1	83	2	86.0	50%	106.9	-3.0	-48.6	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	27.4		
N1c	Hung Kiu San Tsuen	Truck/Forklift for Loading 2	83	2	86.0	50%	141.5	-3.0	-51.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	20.0	38.3	45
	rsueri	Truck/Forklift for Unloading 1	83	0	0.0	50%	93.4	-3.0	-47.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Unloading 2	83	0	0.0	50%	181.4	-3.0	-53.2	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	135.0	0.0	-50.6	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	31.4		
		Lorry (Delivery)	105	1	105.0	2.8%	99.0	-15.6	-47.9	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	34.5		
		Lorry (Collection)	105	0	0.0	2.8%	99.0	-15.6	-47.9	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	0.0		
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	333.4	0.0	-58.4	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	19.6		
		Exhaust Fan for PSC	99	4	105.0	100%	333.4	0.0	-58.4	-10.0	the PSC	-20.0	3.0	19.6		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	346.7	0.0	-58.8	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	16.2		
		Exhaust Fan for WTF	99	2	102.0	100%	346.7	0.0	-58.8	-10.0	the WTF	-20.0	3.0	16.2		
		Truck/Forklift for Loading 1	83	2	86.0	50%	294.5	-3.0	-57.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	13.6		
N2	Tin Hau	Truck/Forklift for Loading 2	83	2	86.0	50%	304.9	-3.0	-57.7	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	13.3	29.3	45
	Temple	Truck/Forklift for Unloading 1	83	0	0.0	50%	318.4	-3.0	-58.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Unloading 2	83	0	0.0	50%	353.4	-3.0	-58.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	333.4	0.0	-58.4	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	23.6		
		Lorry (Delivery)	105	1	105.0	2.8%	297.9	-15.6	-57.5	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	24.9		
		Lorry (Collection)	105	0	0.0	2.8%	297.9	-15.6	-57.5	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	0.0		

NSR Description Potential Fixed-noise Sources SWL/unit, dB(A) No. of Equipments Total SWL, dB(A) % on time Distance, m % on time Distance, m % on time Distance Screening Justifications of adopted screening Proposed Reduction Facade Rolse Reduction Reduction Reduction Reduction Total CNL, dB(A) Total CNL, dB(A)	Criterion, dB(A)
N3 Lee Ka Yuen N3 Lee Ka Yuen N3 Lee Ka Yuen N6 Lee Ka Yuen N7 Lee Ka Yuen N7 Lee Ka Yuen N7 Lee Ka Yuen N8 Lee Ka	45
Exhaust Fan for PSC 99 4 105.0 100% 261.0 0.0 -56.3 -10.0 Fans will be fully screened by upper roof of the WTF -20.0 3.0 19.9 Part of the WTF -20.0 3.0 19.9 Truck/Forklift for Loading 1 83 2 86.0 50% 239.8 -3.0 -55.6 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 15.4 Truck/Forklift for Unloading 1 83 0 0.0 50% 215.5 -3.0 -54.7 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 14.2 Truck/Forklift for Unloading 1 83 0 0.0 0.0 50% 215.5 -3.0 -54.7 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 0.0	45
N3 Lee Ka Yuen N3 Lee Ka Yuen	45
N3 Lee Ka Yuen	45
N3 Lee Ka Yuen Truck/Forklift for Loading 2 83 2 86.0 50% 275.2 -3.0 -56.8 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 14.2 31.7 Truck/Forklift for Unloading 1 83 0 0.0 50% 215.5 -3.0 -54.7 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 0.0	45
N3 Lee Ka Yuen Truck/Forklift for Unloading 1 83 0 0.0 50% 215.5 -3.0 -54.7 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 0.0	45
Truck/Forklift for Unloading 2 83 0 0.0 50% 310.0 -3.0 -57.8 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 0.0	
Air-cooled Chiller 105 8 114.0 100% 261.0 0.0 -56.3 -10.0 Chillers will be fully screened by upper roof of the PSC -25.0 3.0 25.7	
Lorry (Delivery) 105 1 105.0 2.8% 223.8 -15.6 -55.0 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 27.4	
Lorry (Collection) 105 0 0.0 2.8% 223.8 -15.6 -55.0 -15.0 Calculated screening effect of the 5m high E&M Room with 0.5m canopy 0.0 3.0 0.0	
Exhaust Fan for De- odourising Unit (PSC) 99 4 105.0 100% 330.1 0.0 -58.4 -10.0 Fan will be fully screened by 2m high fence -20.0 3.0 19.6	
Exhaust Fan for PSC 99 4 105.0 100% 330.1 0.0 -58.4 -10.0 wall at the rooftop -20.0 3.0 19.6	
Exhaust Fan for De- odourising Unit (WTF) 99 2 102.0 100% 303.0 0.0 -57.6 -10.0 Fan will be fully screened by 2m high fence -20.0 3.0 17.4	
Exhaust Fan for WTF 99 2 102.0 100% 303.0 0.0 -57.6 -10.0 wall at the rooftop -20.0 3.0 17.4	
Truck/Forklift for Loading 1 83 2 86.0 50% 363.4 -3.0 -59.2 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 11.8	
Truck/Forklift for Loading 2 83 2 86.0 50% 369.5 -3.0 -59.3 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 11.7	
N4 Village House Truck/Forklift for Unloading 1 83 0 0.0 50% 331.1 -3.0 -58.4 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 0.0 31.2	45
Truck/Forklift for Unloading 2 83 0 0.0 50% 338.5 -3.0 -58.6 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 0.0	
Air-cooled Chiller 105 8 114.0 100% 330.1 0.0 -58.4 -5.0 Air cooled chiller will be partially screened by 2m high fence wall at the rooftop25.0 3.0 28.6	
Lorry (Delivery) 105 1 105.0 2.8% 319.5 -15.6 -58.1 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 24.3	
Lorry (Collection) 105 0 0.0 2.8% 319.5 -15.6 -58.1 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 0.0	

											Correction, dB(A)					
NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
	1	E-1		П	П	1	1		1				1			
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	226.6	0.0	-55.1	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	22.9		
		Exhaust Fan for PSC	99	4	105.0	100%	226.6	0.0	-55.1	-10.0	the PSC	-20.0	3.0	22.9		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	212.7	0.0	-54.5	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	20.5		
		Exhaust Fan for WTF	99	2	102.0	100%	212.7	0.0	-54.5	-10.0	the WTF	-20.0	3.0	20.5		
		Truck/Forklift for Loading 1	83	2	86.0	50%	192.1	-3.0	-53.7	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	22.3		
N18	Village House	Truck/Forklift for Loading 2	83	2	86.0	50%	222.2	-3.0	-54.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	16.1	33.2	45
		Truck/Forklift for Unloading 1	83	0	0.0	50%	189.4	-3.0	-53.5	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Unloading 2	83	0	0.0	50%	268.6	-3.0	-56.6	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	226.6	0.0	-55.1	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	26.9		
		Lorry (Delivery)	105	1	105.0	2.8%	188.6	-15.6	-53.5	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	28.9		
		Lorry (Collection)	105	0	0.0	2.8%	188.6	-15.6	-53.5	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	0.0		
		Exhaust Fan for De-	99	4	105.0	100%	268.8	0.0	-56.6	-10.0	E "" (") ()	-20.0	3.0	21.4		
		odourising Unit (PSC) Exhaust Fan for PSC	99	4	105.0	100%	268.8	0.0	-56.6	-10.0	Fans will be fully screened by upper roof of the PSC	-20.0	3.0	21.4		
		Exhaust Fan for De-	99	2	102.0	100%	260.6	0.0	-56.3	-10.0		-20.0	3.0	18.7		
		odourising Unit (WTF) Exhaust Fan for WTF	99	2	102.0	100%	260.6	0.0	-56.3	-10.0	Fans will be fully screened by upper roof of the WTF	-20.0	3.0	18.7		
		Truck/Forklift for Loading 1	83	2	86.0	50%	231.7	-3.0	-55.3	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	20.7		
N19	Village House	Truck/Forklift for Loading 2	83	2	86.0	50%	258.1	-3.0	-56.2	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	14.8	31.6	45
INTO	Village I louse	Truck/Forklift for Unloading 1	83	0	0.0	50%	235.6	-3.0	-55.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	31.0	45
		Truck/Forklift for Unloading 2	83	0	0.0	50%	306.8	-3.0	-57.7	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	268.8	0.0	-56.6	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	25.4		
		Lorry (Delivery)	105	1	105.0	2.8%	232.9	-15.6	-55.3	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	27.1		
		Lorry (Collection)	105	0	0.0	2.8%	232.9	-15.6	-55.3	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	0.0		

											Correction, dB(A)					
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		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	190.5	0.0	-53.6	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	24.4		
		Exhaust Fan for PSC	99	4	105.0	100%	190.5	0.0	-53.6	-10.0	the PSC	-20.0	3.0	24.4		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	142.6	0.0	-51.1	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	23.9		
		Exhaust Fan for WTF	99	2	102.0	100%	142.6	0.0	-51.1	-10.0	the WTF	-20.0	3.0	23.9		
		Truck/Forklift for Loading 1	83	2	86.0	50%	198.2	-3.0	-53.9	0.0	No screening	0.0	3.0	32.1		
N20	Village House	Truck/Forklift for Loading 2	83	2	86.0	50%	226.4	-3.0	-55.1	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	15.9	41.3	45
		Truck/Forklift for Unloading 1	83	0	0.0	50%	156.4	-3.0	-51.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Unloading 2	83	0	0.0	50%	233.1	-3.0	-55.3	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	190.5	0.0	-53.6	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	28.4		
		Lorry (Delivery)	105	1	105.0	2.8%	164.9	-15.6	-52.3	0.0	No screening	0.0	3.0	40.1		
		Lorry (Collection)	105	0	0.0	2.8%	164.9	-15.6	-52.3	0.0	No screening	0.0	3.0	0.0		
		Exhaust Fan for De-			· 	· 	1		· I	· 		1	1			
		odourising Unit (PSC)	99	4	105.0	100%	179.8	0.0	-53.1	-10.0	Fan will be fully screened by 2m high fence	-20.0	3.0	24.9		
		Exhaust Fan for PSC	99	4	105.0	100%	179.8	0.0	-53.1	-10.0	wall at the rooftop	-20.0	3.0	24.9		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	146.8	0.0	-51.3	-10.0	Fan will be fully screened by 2m high fence	-20.0	3.0	23.7		
		Exhaust Fan for WTF	99	2	102.0	100%	146.8	0.0	-51.3	-10.0	wall at the rooftop	-20.0	3.0	23.7		
		Truck/Forklift for Loading 1	83	2	86.0	50%	209.3	-3.0	-54.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	16.6		
		Truck/Forklift for Loading 2	83	2	86.0	50%	220.8	-3.0	-54.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	16.1		
N21	Village House	Truck/Forklift for Unloading 1	83	0	0.0	50%	174.3	-3.0	-52.8	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	36.6	45
		Truck/Forklift for Unloading 2	83	0	0.0	50%	199.9	-3.0	-54.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	179.8	0.0	-53.1	-5.0	Air cooled chiller will be partially screened by 2m high fence wall at the rooftop.	-25.0	3.0	33.9		
		Lorry (Delivery)	105	1	105.0	2.8%	168.8	-15.6	-52.5	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	29.9		
		Lorry (Collection)	105	0	0.0	2.8%	168.8	-15.6	-52.5	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		

											Correction, dB(A)					
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		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	199.9	0.0	-54.0	-10.0	Screened by the nature slope	-20.0	3.0	24.0		
		Exhaust Fan for PSC	99	4	105.0	100%	199.9	0.0	-54.0	-10.0	ocieened by the nature slope	-20.0	3.0	24.0		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	194.2	0.0	-53.7	-10.0	Screened by the nature slope	-20.0	3.0	21.3		
		Exhaust Fan for WTF	99	2	102.0	100%	194.2	0.0	-53.7	-10.0	Screened by the nature slope	-20.0	3.0	21.3		
		Truck/Forklift for Loading 1	83	2	86.0	50%	238.9	-3.0	-55.5	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	15.5		
N22	Village House	Truck/Forklift for Loading 2	83	2	86.0	50%	232.2	-3.0	-55.3	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	15.7	33.6	45
		Truck/Forklift for Unloading 1	83	0	0.0	50%	220.7	-3.0	-54.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Unloading 2	83	0	0.0	50%	190.2	-3.0	-53.6	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	199.9	0.0	-54.0	-10.0	Screened by the nature slope	-25.0	3.0	28.0		
		Lorry (Delivery)	105	1	105.0	2.8%	186.7	-15.6	-53.4	-10.0	Screened by the nature slope	0.0	3.0	29.0		
		Lorry (Collection)	105	0	0.0	2.8%	186.7	-15.6	-53.4	-10.0	Screened by the nature slope	0.0	3.0	0.0		
		Exhaust Fan for De-					1	1	I		1		I			
		odourising Unit (PSC)	99	4	105.0	100%	366.2	0.0	-59.3	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	18.7		
		Exhaust Fan for PSC	99	4	105.0	100%	366.2	0.0	-59.3	-10.0	the PSC	-20.0	3.0	18.7		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	358.0	0.0	-59.1	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	15.9		
		Exhaust Fan for WTF	99	2	102.0	100%	358.0	0.0	-59.1	-10.0	the WTF	-20.0	3.0	15.9		
		Truck/Forklift for Loading 1	83	2	86.0	50%	328.7	-3.0	-58.3	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	17.7		
N23	Village House	Truck/Forklift for Loading 2	83	2	86.0	50%	353.8	-3.0	-59.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	12.0	28.7	45
		Truck/Forklift for Unloading 1	83	0	0.0	50%	333.2	-3.0	-58.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Unloading 2	83	0	0.0	50%	403.0	-3.0	-60.1	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	366.2	0.0	-59.3	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	22.7		
		Lorry (Delivery)	105	1	105.0	2.8%	330.7	-15.6	-58.4	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	24.0		
		Lorry (Collection)	105	0	0.0	2.8%	330.7	-15.6	-58.4	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	0.0		

Industrial Noise Impact Assessment - Mitigated Scenario for Night Time (Delivery only)

											Correction, dB(A)					
NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	390.5	0.0	-59.8	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	18.2		
		Exhaust Fan for PSC	99	4	105.0	100%	390.5	0.0	-59.8	-10.0	the PSC	-20.0	3.0	18.2		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	377.2	0.0	-59.5	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	15.5		
		Exhaust Fan for WTF	99	2	102.0	100%	377.2	0.0	-59.5	-10.0	the WTF	-20.0	3.0	15.5		
		Truck/Forklift for Loading 1	83	2	86.0	50%	354.5	-3.0	-59.0	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	17.0		
N24	Village House	Truck/Forklift for Loading 2	83	2	86.0	50%	382.1	-3.0	-59.6	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	11.4	28.2	45
		Truck/Forklift for Unloading 1	83	0	0.0	50%	354.2	-3.0	-59.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Unloading 2	83	0	0.0	50%	430.2	-3.0	-60.7	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Air-cooled Chiller	105	8	114.0	100%	390.5	0.0	-59.8	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	22.2		
		Lorry (Delivery)	105	1	105.0	2.8%	354.0	-15.6	-59.0	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	23.4		
		Lorry (Collection)	105	0	0.0	2.8%	354.0	-15.6	-59.0	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	0.0		

Notes:

General:

- 1. "SWL" Sound Power Level, "CNL" Corrected Noise Level.
- 2. SWLs of the exhaust fans & air-cooled chillers used during the operation phase are derived from the Good Practices on Ventilation System Noise Control (GP-VS) issued by EPD.
- 3. Volume flowrate of each exhaust fan for de-odourisation unit or plant building will be 8,600m³/hr at static pressure 750Pa. The SWL of each fan will be 99dB(A) (GP-VS refers).
- 4. The cooling capacity of each air-cooled chiller will be 200 ton. The SWL of each chiller will be 105 dB(A) (GP-VS refers).
- 5. SWL of the truck/forklift used for loading freshly slaughtered chickens should be between 76 and 98 dB(A) as derived from the typical plant noise levels of 51-73dB(A) at 7m as per Environment Protection Manual for Authorised Officers, New South Wales, Environmental Protection Authority.
- 6. Lorry weight should be less than 38 tonnes and the SWL (105 dB(A)) of a lorry is referred to EPD's "Sound power levels of other commonly used PME".
- 7. The vehicular speed will be 15km/hr and the travelling distance will be about 200m within the site (in/out inclusive). Thus, the travelling time of the lorries will last for ~50 seconds within any 30 minutes.
- 8. The forklift operation will last for ~15 minutes within any 30 minutes.

Mitigation Measures

- 9. A noise reduction of -20 dB(A) can likely be achieved by providing full enclosure together with isolator (spring, floating slab, etc) for ventilation fans (the Good Practices on Ventilation System Noise Control (GP-VS) issued by EPD refers).
- 10. A noise reduction of -25 dB(A) can likely be achieved by providing full enclosure together with isolator (spring, floating slab, etc) and silencers for chillers (GP-VS refers).
- 11. Quieter truck/forklift for loading/unloading activities with a SWL of not higher than 83dB(A) should be used.

											Correction, dB(A)					
NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	78.4	0.0	-45.9	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	32.1		
		Exhaust Fan for PSC	99	4	105.0	100%	78.4	0.0	-45.9	-10.0	the PSC	-20.0	3.0	32.1		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	68.2	0.0	-44.7	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	30.3		
		Exhaust Fan for WTF	99	2	102.0	100%	68.2	0.0	-44.7	-10.0	the WTF	-20.0	3.0	30.3		
		Truck/Forklift for Loading 1	83	0	0.0	50%	50.8	-3.0	-42.1	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	0.0		
N1a	Hung Kiu San Tsuen	Truck/Forklift for Loading 2	83	0	0.0	50%	86.2	-3.0	-46.7	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	44.1	45
	rsuen	Truck/Forklift for Unloading 1	83	2	86.0	50%	41.4	-3.0	-40.3	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	30.7		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	124.3	-3.0	-49.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	21.1		
		Air-cooled Chiller	105	8	114.0	100%	78.4	0.0	-45.9	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	36.1		
		Lorry (Delivery)	105	0	0.0	2.8%	41.9	-15.6	-40.4	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	41.9	-15.6	-40.4	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	41.8		
		Exhaust Fan for De-	99	4	105.0	100%	85.9	0.0	-46.7	10.0		-20.0	3.0	31.3		
		odourising Unit (PSC)		·						-10.0	Fans will be fully screened by upper roof of the PSC					
		Exhaust Fan for PSC Exhaust Fan for De-	99	4	105.0	100%	85.9	0.0	-46.7	-10.0		-20.0	3.0	31.3		
		odourising Unit (WTF)	99	2	102.0	100%	66.7	0.0	-44.5	-10.0	Fans will be fully screened by upper roof of the WTF	-20.0	3.0	30.5		
		Exhaust Fan for WTF	99	2	102.0	100%	66.7	0.0	-44.5	-10.0		-20.0	3.0	30.5		
		Truck/Forklift for Loading 1	83	0	0.0	50%	63.0	-3.0	-44.0	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	0.0		
N1b	Hung Kiu San Tsuen	Truck/Forklift for Loading 2	83	0	0.0	50%	98.6	-3.0	-47.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	43.0	45
	100011	Truck/Forklift for Unloading 1	83	2	86.0	50%	43.6	-3.0	-40.8	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	30.2		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	133.6	-3.0	-50.5	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	20.5		
		Air-cooled Chiller	105	8	114.0	100%	85.9	0.0	-46.7	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	35.3		
		Lorry (Delivery)	105	0	0.0	2.8%	50.0	-15.6	-42.0	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	50.0	-15.6	-42.0	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	40.2		

											Correction, dB(A)					
NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	135.0	0.0	-50.6	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	27.4		
		Exhaust Fan for PSC	99	4	105.0	100%	135.0	0.0	-50.6	-10.0	the PSC	-20.0	3.0	27.4		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	114.7	0.0	-49.2	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	25.8		
		Exhaust Fan for WTF	99	2	102.0	100%	114.7	0.0	-49.2	-10.0	the WTF	-20.0	3.0	25.8		
		Truck/Forklift for Loading 1	83	0	0.0	50%	106.9	-3.0	-48.6	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	0.0		
N1c	Hung Kiu San Tsuen	Truck/Forklift for Loading 2	83	0	0.0	50%	141.5	-3.0	-51.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	37.9	45
	150011	Truck/Forklift for Unloading 1	83	2	86.0	50%	93.4	-3.0	-47.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	23.6		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	181.4	-3.0	-53.2	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	17.8		
		Air-cooled Chiller	105	8	114.0	100%	135.0	0.0	-50.6	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	31.4		
		Lorry (Delivery)	105	0	0.0	2.8%	99.0	-15.6	-47.9	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	99.0	-15.6	-47.9	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	34.3		
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	333.4	0.0	-58.4	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	19.6		
		Exhaust Fan for PSC	99	4	105.0	100%	333.4	0.0	-58.4	-10.0	the PSC	-20.0	3.0	19.6		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	346.7	0.0	-58.8	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	16.2		
		Exhaust Fan for WTF	99	2	102.0	100%	346.7	0.0	-58.8	-10.0	the WTF	-20.0	3.0	16.2		
		Truck/Forklift for Loading 1	83	0	0.0	50%	294.5	-3.0	-57.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
N2	Tin Hau	Truck/Forklift for Loading 2	83	0	0.0	50%	304.9	-3.0	-57.7	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	29.2	45
	Temple	Truck/Forklift for Unloading 1	83	2	86.0	50%	318.4	-3.0	-58.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	13.0		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	353.4	-3.0	-58.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	12.1		
		Air-cooled Chiller	105	8	114.0	100%	333.4	0.0	-58.4	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	23.6		
		Lorry (Delivery)	105	0	0.0	2.8%	297.9	-15.6	-57.5	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	297.9	-15.6	-57.5	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	24.7		

												Correction, dB(A)					
No. 2	NSR	Description					% on time	Distance, m	% on time	Distance	Screening		Noise	Facade	CNL, dB(A)		
N3				99	4	105.0	100%	261.0	0.0	-56.3	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	21.7		
N3 Lee Ka Yues Lee Ka Yues Lee Ka Yues Truck/Forkit for Unloading 1 83 0 0 0.0 56% 238 0.0 55.1 1.0.0 Forkit operation will be semi-enclosed. Truck/Forkit for Unloading 1 83 0 0 0.0 56% 275.2 3.0 55.8 1.15.0 Forkit operation will be semi-enclosed. Truck/Forkit for Unloading 1 83 0 0 0.0 56% 275.2 3.0 55.8 1.15.0 Forkit operation will be semi-enclosed. Truck/Forkit for Unloading 1 83 2 86.0 56% 275.2 3.0 55.8 1.15.0 Forkit operation will be semi-enclosed. Truck/Forkit for Unloading 2 83 2 86.0 56% 275.2 3.0 55.8 1.15.0 Forkit operation will be semi-enclosed. Alr-quoted Chiller 105 8 114.0 100% 281.0 0.0 58.3 1.15.0 Forkit operation will be semi-enclosed. Lee Yues Truck/Forkit for Unloading 2 83 2 86.0 56% 275.2 3.0 55.8 1.15.0 Forkit operation will be semi-enclosed. Truck/Forkit for Unloading 2 83 2 86.0 56% 275.2 3.0 55.8 1.15.0 Forkit operation will be semi-enclosed. Alr-quoted Chiller 105 8 114.0 100% 281.0 0.0 58.4 1.15.0 Forkit operation will be semi-enclosed. 100 3.0 10.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16			Exhaust Fan for PSC	99	4	105.0	100%	261.0	0.0	-56.3	-10.0	the PSC	-20.0	3.0	21.7		
Name				99	2	102.0	100%	226.3	0.0	-55.1	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	19.9		
Lee Ka Yue Frack/Forkill for Loading 2 83 0 0.0 50% 275.2 3.0 -56.8 -15.0 Forkill operation will be semi-enclosed. 0.0 3.0 0.0			Exhaust Fan for WTF	99	2	102.0	100%	226.3	0.0	-55.1	-10.0	the WTF	-20.0	3.0	19.9		
NS Lee Ka Yeur Face Face Face Face Face Face Face Face			Truck/Forklift for Loading 1	83	0	0.0	50%	239.8	-3.0	-55.6	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
Truck/Forkitt for Unloading 2 83 2 86.0 50% 310.0 -3.0 -57.8 -15.0 Forkitt operation will be semi-enclosed. 0.0 3.0 13.2 Air-cooled Chiller 105 8 114.0 100% 261.0 0.0 -56.3 -10.0 Chillors will be fully screened by upper roof 2-25.0 3.0 25.7 Lorry (Delivery) 105 0 0.0 2.8% 223.8 -15.6 -55.0 -10.0 Fully screened by the migh Guard Post 0.0 3.0 0.0 Lorry (Collection) 105 3 109.8 2.8% 223.8 -15.6 -55.0 -15.0 Calculated screening effect of the 5m high Guard Post 0.0 3.0 27.2 Exhaust Fan for De-coloring this (PSC) 99 4 105.0 100% 330.1 0.0 -58.4 -10.0 Fan will be fully screened by 2m high fence wall at the rooftop -20.0 3.0 19.6 Exhaust Fan for PSC 99 4 105.0 100% 330.1 0.0 -58.4 -10.0 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be semi-enclosed. 0.0 3.0 17.4 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be semi-enclosed. 0.0 3.0 17.4 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be semi-enclosed. 0.0 3.0 17.4 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 330.0 0.0 -57.6 -10.0 Fan will be semi-enclosed. 0.0 3.0 12.6 Fan will be fully screened by 2m high fence will at the rooftop. 20.0 3.0 17.4 Fan will be fully screened by 2m high fence will be semi-enclosed. 0.0 3.0	N3	Lee Ka Yuen	Truck/Forklift for Loading 2	83	0	0.0	50%	275.2	-3.0	-56.8	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	31.6	45
Air-cooled Chiller 105 8 114.0 100% 261.0 0.0 -56.3 -10.0 Chillers will be fully screened by upper root of the PSC 25.0 3.0 25.7 Lory (Delivery) 105 0 0.0 2.8% 223.8 -15.6 -55.0 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 0.0 Lory (Collection) 105 3 109.8 2.8% 223.8 -15.6 -55.0 -15.0 Calculated screening effect of the 5m high Guard Post 0.0 3.0 27.2 Calculated screening effect of the 5m high Guard Post 0.0 3.0 27.2 Calculated screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 27.2 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 10.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.0 Calculated Screening effect of the 5m high Guard Post 0.0 3.0 10.			Truck/Forklift for Unloading 1	83	2	86.0	50%	215.5	-3.0	-54.7	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	16.3		
Air-cooled Chiller 105 8 114.0 100% 28% 223.8 -15.6 -55.0 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 0.0			Truck/Forklift for Unloading 2	83	2	86.0	50%	310.0	-3.0	-57.8	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	13.2		
Lory (Collection) 105 3 109.8 2.8% 223.8 -15.6 -55.0 -15.0 Calculated screening effect of the 5m high EMR Room with 0.5m canopy Exhaust Fan for Decodurising Unit (PSC)			Air-cooled Chiller	105	8	114.0	100%	261.0	0.0	-56.3	-10.0		-25.0	3.0	25.7		
Exhaust Fan for Decodourising Unit (MTF) 99 4 105.0 100% 330.1 0.0 -58.4 -10.0 Fan will be fully screened by 2m high fence wall at the roottop -20.0 3.0 19.6			Lorry (Delivery)	105	0	0.0	2.8%	223.8	-15.6	-55.0	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
N4 Village House Nation			Lorry (Collection)	105	3	109.8	2.8%	223.8	-15.6	-55.0	-15.0		0.0	3.0	27.2		
Exhaust Fan for PSC 99 4 105.0 100% 330.1 0.0 -58.4 -10.0 Fan will be fully screened by 2m high fence odourising Unit (WTF) 99 2 102.0 100% 303.0 0.0 -57.6 -10.0 Forklift operation will be semi-enclosed. 0.0 3.0 17.4 Truck/Forklift for Loading 1 83 0 0.0 0.0 50% 363.4 -3.0 -59.2 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 0.0 12.6 Truck/Forklift for Unloading 1 83 2 86.0 50% 331.1 -3.0 -58.4 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 12.6 Air-cooled Chiller 105 8 114.0 100% 330.1 0.0 -58.4 -5.0 Air cooled chiller will be partially screened by the 5m high Guard Post 0.0 3.0 0.0 10.0 10.0 10.0 10.0 10.0 10				99	4	105.0	100%	330.1	0.0	-58.4	-10.0	Fan will be fully screened by 2m high fence	-20.0	3.0	19.6		
N4 Village House Village House Color Co			Exhaust Fan for PSC	99	4	105.0	100%	330.1	0.0	-58.4	-10.0	wall at the rooftop	-20.0	3.0	19.6		
N4 Village House Exhaust Fan for WTF 99 2 102.0 100% 303.0 0.0 -57.6 -10.0 wall at the rooftop -20.0 3.0 17.4				99	2	102.0	100%	303.0	0.0	-57.6	-10.0	Fan will be fully screened by 2m high fence	-20.0	3.0	17.4		
N4 Village House Truck/Forklift for Unloading 1 83 2 86.0 50% 331.1 -3.0 -58.4 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 12.6 Truck/Forklift for Unloading 2 83 2 86.0 50% 331.1 -3.0 -58.4 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 12.6 Air-cooled Chiller 105 8 114.0 100% 330.1 0.0 -58.4 -5.0 Air cooled chiller will be partially screened by 2m high fence wall at the rooftop. Lorry (Delivery) 105 0 0.0 2.8% 319.5 -15.6 -58.1 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 0.0				99	2	102.0	100%	303.0	0.0	-57.6	-10.0		-20.0	3.0	17.4		
Village House Truck/Forklift for Unloading 1 83 2 86.0 50% 331.1 -3.0 -58.4 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 12.6 12.6 12.6			Truck/Forklift for Loading 1	83	0	0.0	50%	363.4	-3.0	-59.2	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
Truck/Forklift for Unloading 1 83 2 86.0 50% 331.1 -3.0 -58.4 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 12.6 Truck/Forklift for Unloading 2 83 2 86.0 50% 338.5 -3.0 -58.6 -15.0 Forklift operation will be semi-enclosed. 0.0 3.0 12.4 Air-cooled Chiller 105 8 114.0 100% 330.1 0.0 -58.4 -5.0 Air cooled chiller will be partially screened by 2m high fence wall at the rooftop25.0 3.0 28.6 Lorry (Delivery) 105 0 0.0 2.8% 319.5 -15.6 -58.1 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 0.0			Truck/Forklift for Loading 2	83	0	0.0	50%	369.5	-3.0	-59.3	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
Air-cooled Chiller 105 8 114.0 100% 330.1 0.0 -58.4 -5.0 Air cooled chiller will be partially screened by 2m high fence wall at the rooftop25.0 3.0 28.6 Lorry (Delivery) 105 0 0.0 2.8% 319.5 -15.6 -58.1 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 0.0	N4	Village House	Truck/Forklift for Unloading 1	83	2	86.0	50%	331.1	-3.0	-58.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	12.6	32.7	45
Air-cooled Chiller 105 8 114.0 100% 330.1 0.0 -58.4 -5.0 by 2m high fence wall at the rooftop25.0 3.0 28.6 Lorry (Delivery) 105 0 0.0 2.8% 319.5 -15.6 -58.1 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 0.0			Truck/Forklift for Unloading 2	83	2	86.0	50%	338.5	-3.0	-58.6	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	12.4		
			Air-cooled Chiller	105	8	114.0	100%	330.1	0.0	-58.4	-5.0		-25.0	3.0	28.6		
Lorry (Collection) 105 3 109.8 2.8% 319.5 -15.6 -58.1 -10.0 Fully screened by the 5m high Guard Post 0.0 3.0 29.1			Lorry (Delivery)	105	0	0.0	2.8%	319.5	-15.6	-58.1	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
			Lorry (Collection)	105	3	109.8	2.8%	319.5	-15.6	-58.1	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	29.1		

	1										Correction, dB(A)					
NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
		Exhaust Fan for De-	99	4	105.0	100%	226.6	0.0	-55.1	-10.0		-20.0	3.0	22.9		
		odourising Unit (PSC)		,			-				Fans will be fully screened by upper roof of the PSC					
		Exhaust Fan for PSC Exhaust Fan for De-	99	4	105.0	100%	226.6	0.0	-55.1	-10.0		-20.0	3.0	22.9		
		odourising Unit (WTF)	99	2	102.0	100%	212.7	0.0	-54.5	-10.0	Fans will be fully screened by upper roof of the WTF	-20.0	3.0	20.5		
		Exhaust Fan for WTF	99	2	102.0	100%	212.7	0.0	-54.5	-10.0		-20.0	3.0	20.5		
		Truck/Forklift for Loading 1	83	0	0.0	50%	192.1	-3.0	-53.7	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	0.0		
N18	Village House	Truck/Forklift for Loading 2	83	0	0.0	50%	222.2	-3.0	-54.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	32.9	45
		Truck/Forklift for Unloading 1	83	2	86.0	50%	189.4	-3.0	-53.5	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	17.5		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	268.6	-3.0	-56.6	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	14.4		
		Air-cooled Chiller	105	8	114.0	100%	226.6	0.0	-55.1	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	26.9		
		Lorry (Delivery)	105	0	0.0	2.8%	188.6	-15.6	-53.5	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	188.6	-15.6	-53.5	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	28.7		
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	268.8	0.0	-56.6	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	21.4		
		Exhaust Fan for PSC	99	4	105.0	100%	268.8	0.0	-56.6	-10.0	the PSC	-20.0	3.0	21.4		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	260.6	0.0	-56.3	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	18.7		
		Exhaust Fan for WTF	99	2	102.0	100%	260.6	0.0	-56.3	-10.0	the WTF	-20.0	3.0	18.7		
		Truck/Forklift for Loading 1	83	0	0.0	50%	231.7	-3.0	-55.3	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	0.0		
N19	Village House	Truck/Forklift for Loading 2	83	0	0.0	50%	258.1	-3.0	-56.2	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	31.2	45
		Truck/Forklift for Unloading 1	83	2	86.0	50%	235.6	-3.0	-55.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	15.6		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	306.8	-3.0	-57.7	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	13.3		
		Air-cooled Chiller	105	8	114.0	100%	268.8	0.0	-56.6	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	25.4		
		Lorry (Delivery)	105	0	0.0	2.8%	232.9	-15.6	-55.3	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	232.9	-15.6	-55.3	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	26.9		

											Correction, dB(A)					
NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	190.5	0.0	-53.6	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	24.4		
		Exhaust Fan for PSC	99	4	105.0	100%	190.5	0.0	-53.6	-10.0	the PSC	-20.0	3.0	24.4		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	142.6	0.0	-51.1	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	23.9		
		Exhaust Fan for WTF	99	2	102.0	100%	142.6	0.0	-51.1	-10.0	the WTF	-20.0	3.0	23.9		
		Truck/Forklift for Loading 1	83	0	0.0	50%	198.2	-3.0	-53.9	0.0	No screening	0.0	3.0	0.0		
N20	Village House	Truck/Forklift for Loading 2	83	0	0.0	50%	226.4	-3.0	-55.1	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	45.2	45
		Truck/Forklift for Unloading 1	83	2	86.0	50%	156.4	-3.0	-51.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	19.1		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	233.1	-3.0	-55.3	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	15.7		
		Air-cooled Chiller	105	8	114.0	100%	190.5	0.0	-53.6	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	28.4		
		Lorry (Delivery)	105	0	0.0	2.8%	164.9	-15.6	-52.3	0.0	No screening	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	164.9	-15.6	-52.3	0.0	No screening	0.0	3.0	44.9		
	1	Fisheriat For for De		1							T		1	1		1
		Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	179.8	0.0	-53.1	-10.0	Fan will be fully screened by 2m high fence	-20.0	3.0	24.9		
		Exhaust Fan for PSC	99	4	105.0	100%	179.8	0.0	-53.1	-10.0	wall at the rooftop	-20.0	3.0	24.9		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	146.8	0.0	-51.3	-10.0	Fan will be fully screened by 2m high fence	-20.0	3.0	23.7		
		Exhaust Fan for WTF	99	2	102.0	100%	146.8	0.0	-51.3	-10.0	wall at the rooftop	-20.0	3.0	23.7		
		Truck/Forklift for Loading 1	83	0	0.0	50%	209.3	-3.0	-54.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Loading 2	83	0	0.0	50%	220.8	-3.0	-54.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
N21	Village House	Truck/Forklift for Unloading 1	83	2	86.0	50%	174.3	-3.0	-52.8	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	18.2	38.2	45
		Truck/Forklift for Unloading 2	83	2	86.0	50%	199.9	-3.0	-54.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	17.0		
		Air-cooled Chiller	105	8	114.0	100%	179.8	0.0	-53.1	-5.0	Air cooled chiller will be partially screened by 2m high fence wall at the rooftop.	-25.0	3.0	33.9		
		Lorry (Delivery)	105	0	0.0	2.8%	168.8	-15.6	-52.5	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	168.8	-15.6	-52.5	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	34.7		

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)								
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)) Total CNL, dB(A)	Criterion, dB(A)
N22	Village House	Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	199.9	0.0	-54.0	-10.0	Screened by the nature slope	-20.0	3.0	24.0		45
		Exhaust Fan for PSC	99	4	105.0	100%	199.9	0.0	-54.0	-10.0		-20.0	3.0	24.0		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	194.2	0.0	-53.7	-10.0	Screened by the nature slope	-20.0	3.0	21.3		
		Exhaust Fan for WTF	99	2	102.0	100%	194.2	0.0	-53.7	-10.0	ocreened by the nature slope	-20.0	3.0	21.3		
		Truck/Forklift for Loading 1	83	0	0.0	50%	238.9	-3.0	-55.5	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0		
		Truck/Forklift for Loading 2	83	0	0.0	50%	232.2	-3.0	-55.3	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	35.9	
		Truck/Forklift for Unloading 1	83	2	86.0	50%	220.7	-3.0	-54.9	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	16.1		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	190.2	-3.0	-53.6	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	17.4		
		Air-cooled Chiller	105	8	114.0	100%	199.9	0.0	-54.0	-10.0	Screened by the nature slope	-25.0	3.0	28.0		
		Lorry (Delivery)	105	0	0.0	2.8%	186.7	-15.6	-53.4	-10.0	Screened by the nature slope	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	186.7	-15.6	-53.4	-10.0	Screened by the nature slope	0.0	3.0	33.8		
N23	Village House	Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	366.2	0.0	-59.3	-10.0	Fans will be fully screened by upper roof of	-20.0	3.0	18.7	$\overline{}$	45
		Exhaust Fan for PSC	99	4	105.0	100%	366.2	0.0	-59.3	-10.0	the PSC	-20.0	3.0	18.7		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	358.0	0.0	-59.1	-10.0	Fans will be fully screened by upper roof of the WTF	-20.0	3.0	15.9		
		Exhaust Fan for WTF	99	2	102.0	100%	358.0	0.0	-59.1	-10.0		-20.0	3.0	15.9		
		Truck/Forklift for Loading 1	83	0	0.0	50%	328.7	-3.0	-58.3	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	0.0		
		Truck/Forklift for Loading 2	83	0	0.0	50%	353.8	-3.0	-59.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	28.4	
		Truck/Forklift for Unloading 1	83	2	86.0	50%	333.2	-3.0	-58.4	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	12.6		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	403.0	-3.0	-60.1	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	10.9		
		Air-cooled Chiller	105	8	114.0	100%	366.2	0.0	-59.3	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	22.7		
		Lorry (Delivery)	105	0	0.0	2.8%	330.7	-15.6	-58.4	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	330.7	-15.6	-58.4	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	23.8		

	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)								
NSR								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade	CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
N24	Village House	Exhaust Fan for De- odourising Unit (PSC)	99	4	105.0	100%	390.5	0.0	-59.8	-10.0	Fans will be fully screened by upper roof of the PSC	-20.0	3.0	18.2		
		Exhaust Fan for PSC	99	4	105.0	100%	390.5	0.0	-59.8	-10.0		-20.0	3.0	18.2		
		Exhaust Fan for De- odourising Unit (WTF)	99	2	102.0	100%	377.2	0.0	-59.5	-10.0	Fans will be fully screened by upper roof of the WTF	-20.0	3.0	15.5		
		Exhaust Fan for WTF	99	2	102.0	100%	377.2	0.0	-59.5	-10.0		-20.0	3.0	15.5		
		Truck/Forklift for Loading 1	83	0	0.0	50%	354.5	-3.0	-59.0	-10.0	Forklift operation will be fully screened by the 4m high fence wall	0.0	3.0	0.0		
		Truck/Forklift for Loading 2	83	0	0.0	50%	382.1	-3.0	-59.6	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	0.0	27.8	45
		Truck/Forklift for Unloading 1	83	2	86.0	50%	354.2	-3.0	-59.0	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	12.0		
		Truck/Forklift for Unloading 2	83	2	86.0	50%	430.2	-3.0	-60.7	-15.0	Forklift operation will be semi-enclosed.	0.0	3.0	10.3		
		Air-cooled Chiller	105	8	114.0	100%	390.5	0.0	-59.8	-10.0	Chillers will be fully screened by upper roof of the PSC	-25.0	3.0	22.2		
		Lorry (Delivery)	105	0	0.0	2.8%	354.0	-15.6	-59.0	-10.0	Fully screened by the 5m high Guard Post	0.0	3.0	0.0		
		Lorry (Collection)	105	3	109.8	2.8%	354.0	-15.6	-59.0	-15.0	Calculated screening effect of the 5m high E&M Room with 0.5m canopy	0.0	3.0	23.2		

Notes:

General:

- 1. "SWL" Sound Power Level, "CNL" Corrected Noise Level.
- 2. SWLs of the exhaust fans & air-cooled chillers used during the operation phase are derived from the Good Practices on Ventilation System Noise Control (GP-VS) issued by EPD.
- 3. Volume flowrate of each exhaust fan for de-odourisation unit or plant building will be 8,600m³/hr at static pressure 750Pa. The SWL of each fan will be 99dB(A) (GP-VS refers).
- 4. The cooling capacity of each air-cooled chiller will be 200 ton. The SWL of each chiller will be 105 dB(A) (GP-VS refers).
- 5. SWL of the truck/forklift used for loading freshly slaughtered chickens should be between 76 and 98 dB(A) as derived from the typical plant noise levels of 51-73dB(A) at 7m as per Environment Protection Manual for Authorised Officers, New South Wales, Environmental Protection Authority.
- 6. Lorry weight should be less than 38 tonnes and the SWL (105 dB(A)) of a lorry is referred to EPD's "Sound power levels of other commonly used PME".
- 7. The vehicular speed will be 15km/hr and the travelling distance will be about 200m within the site (in/out inclusive). Thus, the travelling time of the lorries will last for ~50 seconds within any 30 minutes.
- 8. The forklift operation will last for ~15 minutes within any 30 minutes.

Mitigation Measures:

- 9. A noise reduction of -20 dB(A) can likely be achieved by providing full enclosure together with isolator (spring, floating slab, etc) for ventilation fans (the Good Practices on Ventilation System Noise Control (GP-VS) issued by EPD refers).
- 10. A noise reduction of -25 dB(A) can likely be achieved by providing full enclosure together with isolator (spring, floating slab, etc) and silencers for chillers (GP-VS refers).
- 11. Quieter truck/forklift for loading/unloading activities with a SWL of not higher than 83dB(A) should be used.