

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)						CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N1a	Hung Kiu San Tsuen	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 the PSC	-20.0	3.0	32.1	44.5	45
		Exhaust Fan for PSC	99	4	105.0	100%	78.4	0.0	-45.9	-10.0		-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 the WTF	-20.0	3.0	30.3		
		Exhaust Fan for WTF	99	2	102.0	100%	68.2	0.0	-44.7	-10.0		-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		
		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		
		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				

N1b	Hung Kiu San Tsuen	Exhaust Fan for De-odourising Unit (PSC)	99	4	105.0	100%	85.9	0.0	-46.7	-10.0	Fans will be fully screened by upper roof of the PSC	-20.0	3.0	31.3	43.2	45
		Exhaust Fan for PSC	99	4	105.0	100%	85.9	0.0	-46.7	-10.0		-20.0	3.0	31.3		
		Exhaust Fan for De-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		
		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		
		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				

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								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N1c	Hung Kiu San Tsuen	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 the PSC	-20.0	3.0	27.4	38.3	45
		Exhaust Fan for PSC	99	4	105.0	100%	135.0	0.0	-50.6	-10.0		-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 the WTF	-20.0	3.0	25.8		
		Exhaust Fan for WTF	99	2	102.0	100%	114.7	0.0	-49.2	-10.0		-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		
		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		
		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		
N2	Tin Hau Temple	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 the PSC	-20.0	3.0	19.6	29.3	45
		Exhaust Fan for PSC	99	4	105.0	100%	333.4	0.0	-58.4	-10.0		-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 the WTF	-20.0	3.0	16.2		
		Exhaust Fan for WTF	99	2	102.0	100%	346.7	0.0	-58.8	-10.0		-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		
		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		
		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		

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								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N3	Lee Ka Yuen	Exhaust Fan for De-odourising Unit (PSC)	99	4	105.0	100%	261.0	0.0	-56.3	-10.0	Fans will be fully screened by upper roof of the PSC	-20.0	3.0	21.7	31.7	45
		Exhaust Fan for PSC	99	4	105.0	100%	261.0	0.0	-56.3	-10.0		-20.0	3.0	21.7		
		Exhaust Fan for De-odourising Unit (WTF)	99	2	102.0	100%	226.3	0.0	-55.1	-10.0	Fans will be fully screened by upper roof of the WTF	-20.0	3.0	19.9		
		Exhaust Fan for WTF	99	2	102.0	100%	226.3	0.0	-55.1	-10.0		-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 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		
		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		
		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		

N4	Village House	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 wall at the rooftop	-20.0	3.0	19.6	31.2	45
		Exhaust Fan for PSC	99	4	105.0	100%	330.1	0.0	-58.4	-10.0		-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 wall at the rooftop	-20.0	3.0	17.4		
		Exhaust Fan for WTF	99	2	102.0	100%	303.0	0.0	-57.6	-10.0		-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		
		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		
		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 rooftop.	-25.0	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		

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								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N18	Village House	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 the PSC	-20.0	3.0	22.9	33.2	45
		Exhaust Fan for PSC	99	4	105.0	100%	226.6	0.0	-55.1	-10.0		-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 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	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		
		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		
		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				
N19	Village House	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 the PSC	-20.0	3.0	21.4	31.6	45
		Exhaust Fan for PSC	99	4	105.0	100%	268.8	0.0	-56.6	-10.0		-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 the WTF	-20.0	3.0	18.7		
		Exhaust Fan for WTF	99	2	102.0	100%	260.6	0.0	-56.3	-10.0		-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		
		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		
		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		
		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				

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								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N20	Village House	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 the PSC	-20.0	3.0	24.4	41.3	45
		Exhaust Fan for PSC	99	4	105.0	100%	190.5	0.0	-53.6	-10.0		-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 the WTF	-20.0	3.0	23.9		
		Exhaust Fan for WTF	99	2	102.0	100%	142.6	0.0	-51.1	-10.0		-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		
		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		
		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		
N21	Village House	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 wall at the rooftop	-20.0	3.0	24.9	36.6	45
		Exhaust Fan for PSC	99	4	105.0	100%	179.8	0.0	-53.1	-10.0		-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 wall at the rooftop	-20.0	3.0	23.7		
		Exhaust Fan for WTF	99	2	102.0	100%	146.8	0.0	-51.3	-10.0		-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		
		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		
		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		

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)						CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
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	33.6	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		-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		
		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		
		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		
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 the PSC	-20.0	3.0	18.7	28.7	45
		Exhaust Fan for PSC	99	4	105.0	100%	366.2	0.0	-59.3	-10.0		-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	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		
		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		
		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		

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)					CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)	
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction				Facade
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	28.2	45
		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	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		
		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		
		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:

- "SWL" - Sound Power Level, "CNL" - Corrected Noise Level.
- 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.
- 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).
- 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).
- 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.
- 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*".
- 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.
- The forklift operation will last for ~15 minutes within any 30 minutes.

Mitigation Measures:

- 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).
- 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).
- Quieter truck/forklift for loading/unloading activities with a SWL of not higher than 83dB(A) should be used.

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)						CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N1a	Hung Kiu San Tsuen	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 the PSC	-20.0	3.0	32.1	44.1	45
		Exhaust Fan for PSC	99	4	105.0	100%	78.4	0.0	-45.9	-10.0		-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 the WTF	-20.0	3.0	30.3		
		Exhaust Fan for WTF	99	2	102.0	100%	68.2	0.0	-44.7	-10.0		-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		
		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		
		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				

N1b	Hung Kiu San Tsuen	Exhaust Fan for De-odourising Unit (PSC)	99	4	105.0	100%	85.9	0.0	-46.7	-10.0	Fans will be fully screened by upper roof of the PSC	-20.0	3.0	31.3	43.0	45
		Exhaust Fan for PSC	99	4	105.0	100%	85.9	0.0	-46.7	-10.0		-20.0	3.0	31.3		
		Exhaust Fan for De-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		
		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		
		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				

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)						CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N1c	Hung Kiu San Tsuen	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 the PSC	-20.0	3.0	27.4	37.9	45
		Exhaust Fan for PSC	99	4	105.0	100%	135.0	0.0	-50.6	-10.0		-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 the WTF	-20.0	3.0	25.8		
		Exhaust Fan for WTF	99	2	102.0	100%	114.7	0.0	-49.2	-10.0		-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		
		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		
		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		
N2	Tin Hau Temple	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 the PSC	-20.0	3.0	19.6	29.2	45
		Exhaust Fan for PSC	99	4	105.0	100%	333.4	0.0	-58.4	-10.0		-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 the WTF	-20.0	3.0	16.2		
		Exhaust Fan for WTF	99	2	102.0	100%	346.7	0.0	-58.8	-10.0		-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		
		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		
		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		

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)						CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N3	Lee Ka Yuen	Exhaust Fan for De-odourising Unit (PSC)	99	4	105.0	100%	261.0	0.0	-56.3	-10.0	Fans will be fully screened by upper roof of the PSC	-20.0	3.0	21.7	31.6	45
		Exhaust Fan for PSC	99	4	105.0	100%	261.0	0.0	-56.3	-10.0		-20.0	3.0	21.7		
		Exhaust Fan for De-odourising Unit (WTF)	99	2	102.0	100%	226.3	0.0	-55.1	-10.0	Fans will be fully screened by upper roof of the WTF	-20.0	3.0	19.9		
		Exhaust Fan for WTF	99	2	102.0	100%	226.3	0.0	-55.1	-10.0		-20.0	3.0	19.9		
		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/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		
		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		
		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		
		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	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		
		Lorry (Collection)	105	3	109.8	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	27.2		

N4	Village House	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 wall at the rooftop	-20.0	3.0	19.6	32.7	45
		Exhaust Fan for PSC	99	4	105.0	100%	330.1	0.0	-58.4	-10.0		-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 wall at the rooftop	-20.0	3.0	17.4		
		Exhaust Fan for WTF	99	2	102.0	100%	303.0	0.0	-57.6	-10.0		-20.0	3.0	17.4		
		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 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		
		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 rooftop.	-25.0	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		
		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		

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)						CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N18	Village House	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 the PSC	-20.0	3.0	22.9	32.9	45
		Exhaust Fan for PSC	99	4	105.0	100%	226.6	0.0	-55.1	-10.0		-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 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		
		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		
		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				
N19	Village House	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 the PSC	-20.0	3.0	21.4	31.2	45
		Exhaust Fan for PSC	99	4	105.0	100%	268.8	0.0	-56.6	-10.0		-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 the WTF	-20.0	3.0	18.7		
		Exhaust Fan for WTF	99	2	102.0	100%	260.6	0.0	-56.3	-10.0		-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		
		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		
		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				

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)						CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
N20	Village House	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 the PSC	-20.0	3.0	24.4	45.2	45
		Exhaust Fan for PSC	99	4	105.0	100%	190.5	0.0	-53.6	-10.0		-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 the WTF	-20.0	3.0	23.9		
		Exhaust Fan for WTF	99	2	102.0	100%	142.6	0.0	-51.1	-10.0		-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		
		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		
		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		
N21	Village House	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 wall at the rooftop	-20.0	3.0	24.9	38.2	45
		Exhaust Fan for PSC	99	4	105.0	100%	179.8	0.0	-53.1	-10.0		-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 wall at the rooftop	-20.0	3.0	23.7		
		Exhaust Fan for WTF	99	2	102.0	100%	146.8	0.0	-51.3	-10.0		-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		
		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		
		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)						CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction	Facade			
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	35.9	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		-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		
		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 the PSC	-20.0	3.0	18.7	28.4	45
		Exhaust Fan for PSC	99	4	105.0	100%	366.2	0.0	-59.3	-10.0		-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		
		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		

NSR	Description	Potential Fixed-noise Sources	SWL/unit, dB(A)	No. of Equipments	Total SWL, dB(A)	% on time	Distance, m	Correction, dB(A)					CNL, dB(A)	Total CNL, dB(A)	Criterion, dB(A)	
								% on time	Distance	Screening	Justifications of adopted screening effect	Proposed Noise Reduction				Facade
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	27.8	45
		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		
		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:

- "SWL" - Sound Power Level, "CNL" - Corrected Noise Level.
- 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.
- 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).
- 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).
- 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.
- 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*".
- 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.
- The forklift operation will last for ~15 minutes within any 30 minutes.

Mitigation Measures:

- 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).
- 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).
- Quieter truck/forklift for loading/unloading activities with a SWL of not higher than 83dB(A) should be used.