

APPENDIX B3

Fixed-noise Source Calculation (Operation) - for the representative floors at the high levels of NSRs

Table B3-a Representative Floor: 6
RNSR : SR 1 mPD Level: 100.6

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	15	210	-54	39	6	3	48	52
	Radiators for Cremators	82.8	63	6	71	18	210	-54	16	6	3	25	
	General Exhaust Air Fans	86.1	63	1	63	15	210	-54	9	6	3	18	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	28	210	-55	25	6	3	34	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	15	170	-53	40	6	3	49	
	General Exhaust Air Fans	86.1	63	1	63	15	170	-53	10	6	3	19	

Table B3-b Representative Floor: 6
RNSR : SR 2 mPD Level: 103.9

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	18	180	-53	40	6	3	49	52
	Radiators for Cremators	82.8	63	6	71	21	180	-53	18	6	3	27	
	General Exhaust Air Fans	86.1	63	1	63	18	180	-53	10	6	3	19	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	31	180	-53	27	6	3	36	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	18	170	-53	40	6	3	49	
	General Exhaust Air Fans	86.1	63	1	63	15	170	-53	10	6	3	19	

Table B3-c Representative Floor: 8
RNSR : SR 3 mPD Level: 107.6

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	22	170	-53	40	6	3	49	53
	Radiators for Cremators	82.8	63	6	71	25	170	-53	18	6	3	27	
	General Exhaust Air Fans	86.1	63	1	63	22	170	-53	10	6	3	19	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	35	170	-53	27	6	3	36	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	22	160	-52	41	6	3	50	
	General Exhaust Air Fans	86.1	63	1	63	15	160	-52	11	6	3	20	

Table B3-d Representative Floor: 8
RNSR : SR 4 mPD Level: 107.6

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	22	210	-54	39	6	3	48	50
	Radiators for Cremators	82.8	63	6	71	25	210	-55	16	6	3	25	
	General Exhaust Air Fans	86.1	63	1	63	22	210	-54	9	6	3	18	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	35	210	-55	25	6	3	34	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	22	220	-55	38	6	3	47	
	General Exhaust Air Fans	86.1	63	1	63	15	220	-55	8	6	3	17	

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Fixed-noise Source Calculation (Operation) - for the representative floors at the high levels of NSRs

Table B3-e Representative Floor: 8
RNSR : SR 5 mPD Level: 107.6

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	22	280	-57	36	6	3	45	48
	Radiators for Cremators	82.8	63	6	71	25	280	-57	14	6	3	23	
	General Exhaust Air Fans	86.1	63	1	63	22	280	-57	6	6	3	15	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	35	280	-57	23	6	3	32	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	22	290	-57	36	6	3	45	48
	General Exhaust Air Fans	86.1	63	1	63	15	290	-57	6	6	3	15	

Table B3-f Representative Floor: 2
RNSR : SR 6 mPD Level: 65.9

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	(20)	75	-46	47	6	3	56	58
	Radiators for Cremators	82.8	63	6	71	(17)	75	-46	25	6	3	34	
	General Exhaust Air Fans	86.1	63	1	63	(20)	75	-46	17	6	3	26	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	(7)	75	-46	34	6	3	43	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	(20)	110	-49	44	6	3	53	58
	General Exhaust Air Fans	86.1	63	1	63	15	110	-49	14	6	3	23	

Table B3-g Representative Floor: 20
RNSR : SR 7 mPD Level: 116.0

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	30	180	-53	40	6	3	49	51
	Radiators for Cremators	82.8	63	6	71	33	180	-53	18	6	3	27	
	General Exhaust Air Fans	86.1	63	1	63	30	180	-53	10	6	3	19	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	43	180	-53	26	6	3	35	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	30	260	-56	37	6	3	46	51
	General Exhaust Air Fans	86.1	63	1	63	15	260	-56	7	6	3	16	

Table B3-h Representative Floor: 22
RNSR : SR 8 mPD Level: 121.5

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	35	220	-55	38	6	3	47	49
	Radiators for Cremators	82.8	63	6	71	39	220	-55	16	6	3	25	
	General Exhaust Air Fans	86.1	63	1	63	35	220	-55	8	6	3	17	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	49	220	-55	25	6	3	34	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	35	300	-58	35	6	3	44	49
	General Exhaust Air Fans	86.1	63	1	63	15	300	-58	5	6	3	14	

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Fixed-noise Source Calculation (Operation) - for the representative floors at the high levels of NSRs

Table B3-i Representative Floor: 39
RNSR : SR 9 mPD Level: 147

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Facade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	61	280	-57	36	6	3	45	45
	Radiators for Cremators	82.8	63	6	71	64	280	-57	14	6	3	23	
	General Exhaust Air Fans	86.1	63	1	63	61	280	-57	6	6	3	15	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	74	280	-57	23	6	3	32	
Phase II	Condensers of Split Air-conditioning Units	horizontal distance between the fixed noise sources and SR9 is greater than 300m											
	General Exhaust Air Fans												

Note:

1. Tonality correction of 6dB(A) was applied to the SPLs as a conservative assumption in this assessment.
2. Figures in bracket "()" denote as negative adjustment

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Fixed-noise Source Calculation (Operation) - for the representative floors at the mid levels of NSRs

Table B3-j Representative Floor: 3
RNSR : SR 1 mPD Level: 92.4

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	6	210	-54	39	6	3	48	52
	Radiators for Cremators	82.8	63	6	71	10	210	-54	16	6	3	25	
	General Exhaust Air Fans	86.1	63	1	63	6	210	-54	9	6	3	18	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	20	210	-54	25	6	3	34	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	6	170	-53	40	6	3	49	
	General Exhaust Air Fans	86.1	63	1	63	6	170	-53	10	6	3	19	

Table B3-k Representative Floor: 3
RNSR : SR 2 mPD Level: 95.7

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	10	180	-53	40	6	3	49	52
	Radiators for Cremators	82.8	63	6	71	13	180	-53	18	6	3	27	
	General Exhaust Air Fans	86.1	63	1	63	10	180	-53	10	6	3	19	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	23	180	-53	27	6	3	36	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	10	170	-53	40	6	3	49	
	General Exhaust Air Fans	86.1	63	1	63	6	170	-53	10	6	3	19	

Table B3-l Representative Floor: 4
RNSR : SR 3 mPD Level: 96.6

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	11	170	-53	40	6	3	49	53
	Radiators for Cremators	82.8	63	6	71	14	170	-53	18	6	3	27	
	General Exhaust Air Fans	86.1	63	1	63	11	170	-53	10	6	3	19	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	24	170	-53	27	6	3	36	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	11	160	-52	41	6	3	50	
	General Exhaust Air Fans	86.1	63	1	63	6	160	-52	11	6	3	20	

Table B3-m Representative Floor: 4
RNSR : SR 4 mPD Level: 96.6

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	11	210	-54	39	6	3	48	50
	Radiators for Cremators	82.8	63	6	71	14	210	-54	16	6	3	25	
	General Exhaust Air Fans	86.1	63	1	63	11	210	-54	9	6	3	18	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	24	210	-55	25	6	3	34	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	11	220	-55	38	6	3	47	
	General Exhaust Air Fans	86.1	63	1	63	6	220	-55	8	6	3	17	

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Fixed-noise Source Calculation (Operation) - for the representative floors at the mid levels of NSRs

Table B3-n Representative Floor: 4
RNSR : SR 5 mPD Level: 96.6

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	11	280	-57	36	6	3	45	48
	Radiators for Cremators	82.8	63	6	71	14	280	-57	14	6	3	23	
	General Exhaust Air Fans	86.1	63	1	63	11	280	-57	6	6	3	15	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	24	280	-57	23	6	3	32	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	11	290	-57	36	6	3	45	
	General Exhaust Air Fans	86.1	63	1	63	6	290	-57	6	6	3	15	

Table B3-o Representative Floor: 1
RNSR : SR 6 mPD Level: 63.2

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	(23)	75	-46	47	6	3	56	58
	Radiators for Cremators	82.8	63	6	71	(20)	75	-46	25	6	3	34	
	General Exhaust Air Fans	86.1	63	1	63	(23)	75	-46	17	6	3	26	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	(9)	75	-46	34	6	3	43	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	(23)	110	-49	44	6	3	53	
	General Exhaust Air Fans	86.1	63	1	63	6	110	-49	14	6	3	23	

Table B3-p Representative Floor: 10
RNSR : SR 7 mPD Level: 88.5

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	180	-53	40	6	3	49	51
	Radiators for Cremators	82.8	63	6	71	6	180	-53	18	6	3	27	
	General Exhaust Air Fans	86.1	63	1	63	2	180	-53	10	6	3	19	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	16	180	-53	27	6	3	36	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	260	-56	37	6	3	46	
	General Exhaust Air Fans	86.1	63	1	63	6	260	-56	7	6	3	16	

Table B3-q Representative Floor: 10
RNSR : SR 8 mPD Level: 88.5

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	220	-55	38	6	3	47	49
	Radiators for Cremators	82.8	63	6	71	6	220	-55	16	6	3	25	
	General Exhaust Air Fans	86.1	63	1	63	2	220	-55	8	6	3	17	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	16	220	-55	25	6	3	34	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	300	-58	35	6	3	44	
	General Exhaust Air Fans	86.1	63	1	63	6	300	-58	5	6	3	14	

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Fixed-noise Source Calculation (Operation) - for the representative floors at the mid levels of NSRs

Table B3-r Representative Floor: 17
RNSR : SR 9 mPD Level: 86.5

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	0	280	-57	36	6	3	45	45
	Radiators for Cremators	82.8	63	6	71	4	280	-57	14	6	3	23	
	General Exhaust Air Fans	86.1	63	1	63	0	280	-57	6	6	3	15	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	14	280	-57	23	6	3	32	
Phase II	Condensers of Split Air-conditioning Units	horizontal distance between the fixed noise sources and SR9 is greater than 300m											
	General Exhaust Air Fans												

Note:

1. Tonality correction of 6dB(A) was applied to the SPLs as a conservative assumption in this assessment.
2. Figures in bracket "()" denote as negative adjustment

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Fixed-noise Source Calculation (Operation) - for the representative floors at the low levels of NSRs

Table B3-s Representative Floor: 1
RNSR : SR 1 mPD Level: 86.9

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	1	210	-54	39	6	3	48	52
	Radiators for Cremators	82.8	63	6	71	4	210	-54	16	6	3	25	
	General Exhaust Air Fans	86.1	63	1	63	1	210	-54	9	6	3	18	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	14	210	-54	25	6	3	34	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	1	170	-53	40	6	3	49	
	General Exhaust Air Fans	86.1	63	1	63	1	170	-53	10	6	3	19	

Table B3-t Representative Floor: 1
RNSR : SR 2 mPD Level: 90.2

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	4	180	-53	40	6	3	49	52
	Radiators for Cremators	82.8	63	6	71	7	180	-53	18	6	3	27	
	General Exhaust Air Fans	86.1	63	1	63	4	180	-53	10	6	3	19	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	18	180	-53	27	6	3	36	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	4	170	-53	40	6	3	49	
	General Exhaust Air Fans	86.1	63	1	63	1	170	-53	10	6	3	19	

Table B3-u Representative Floor: 1
RNSR : SR 3 mPD Level: 88.4

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	170	-53	40	6	3	49	53
	Radiators for Cremators	82.8	63	6	71	6	170	-53	18	6	3	27	
	General Exhaust Air Fans	86.1	63	1	63	2	170	-53	10	6	3	19	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	16	170	-53	27	6	3	36	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	160	-52	41	6	3	50	
	General Exhaust Air Fans	86.1	63	1	63	1	160	-52	11	6	3	20	

Table B3-v Representative Floor: 1
RNSR : SR 4 mPD Level: 88.4

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	210	-54	39	6	3	48	51
	Radiators for Cremators	82.8	63	6	71	6	210	-54	16	6	3	25	
	General Exhaust Air Fans	86.1	63	1	63	2	210	-54	9	6	3	18	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	16	210	-54	25	6	3	34	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	220	-55	38	6	3	47	
	General Exhaust Air Fans	86.1	63	1	63	1	220	-55	8	6	3	17	

APPENDIX B3

Fixed-noise Source Calculation (Operation) - for the representative floors at the low levels of NSRs

Table B3-w Representative Floor: 1
RNSR : SR 5 mPD Level: 88.4

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	280	-57	36	6	3	45	48
	Radiators for Cremators	82.8	63	6	71	6	280	-57	14	6	3	23	
	General Exhaust Air Fans	86.1	63	1	63	2	280	-57	6	6	3	15	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	16	280	-57	23	6	3	32	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	2	290	-57	36	6	3	45	
	General Exhaust Air Fans	86.1	63	1	63	1	290	-57	6	6	3	15	

Table B3-x Representative Floor: 1
RNSR : SR 6 mPD Level: 63.2

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	(23)	75	-46	47	6	3	56	58
	Radiators for Cremators	82.8	63	6	71	(20)	75	-46	25	6	3	34	
	General Exhaust Air Fans	86.1	63	1	63	(23)	75	-46	17	6	3	26	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	(9)	75	-46	34	6	3	43	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	(23)	110	-49	44	6	3	53	
	General Exhaust Air Fans	86.1	63	1	63	1	110	-49	14	6	3	23	

Table B3-y Representative Floor: 1
RNSR : SR 7 mPD Level: 63.8

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	(22)	180	-53	40	6	3	49	51
	Radiators for Cremators	82.8	63	6	71	(19)	180	-53	18	6	3	27	
	General Exhaust Air Fans	86.1	63	1	63	(22)	180	-53	10	6	3	19	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	(9)	180	-53	27	6	3	36	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	(22)	260	-56	37	6	3	46	
	General Exhaust Air Fans	86.1	63	1	63	1	260	-56	7	6	3	16	

Table B3-z Representative Floor: 1
RNSR : SR 8 mPD Level: 63.8

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	(22)	220	-55	38	6	3	47	49
	Radiators for Cremators	82.8	63	6	71	(19)	220	-55	16	6	3	25	
	General Exhaust Air Fans	86.1	63	1	63	(22)	220	-55	8	6	3	17	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	(9)	220	-55	25	6	3	34	
Phase II	Condensers of Split Air-conditioning Units	86.1	90	2	93	(22)	300	-58	35	6	3	44	
	General Exhaust Air Fans	86.1	63	1	63	1	300	-58	5	6	3	14	

APPENDIX B3

Fixed-noise Source Calculation (Operation) - for the representative floors at the low levels of NSRs

Table B3-aa

Representative Floor: I
mPD Level: 42.5

Location	Potential Fixed-noise Sources	Levels, mPD	SWL/unit, dB(A)	No. of Item	Resultant SWL, dB(A)	Vertical Distance, m	Horizontal Distance, m	Distance Attenuation, dB(A)	Predicted Noise Level at NSR, dB(A)	Tonality Correction, dB(A)	Façade Reflection, dB(A)	Corrected Noise Level at NSR, dB(A)	Resultant Noise Level, dB(A)
Phase I	Condensers of Split Air-conditioning Units	86.1	90	2	93	(44)	280	-57	36	6	3	45	45
	Radiators for Cremators	82.8	63	6	71	(40)	280	-57	14	6	3	23	
	General Exhaust Air Fans	86.1	63	1	63	(44)	280	-57	6	6	3	15	
	Exhaust Fans for Air Pollution Control System	72.6	72	6	80	(30)	280	-57	23	6	3	32	
Phase II	Condensers of Split Air-conditioning Units	horizontal distance between the fixed noise sources and SR9 is greater than 300m											
	General Exhaust Air Fans												

Note:

1. Tonality correction of 6dB(A) was applied to the SPLs as a conservative assumption in this assessment.
2. Figures in bracket "()" denote as negative adjustment

Appendix B3

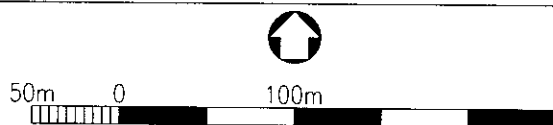
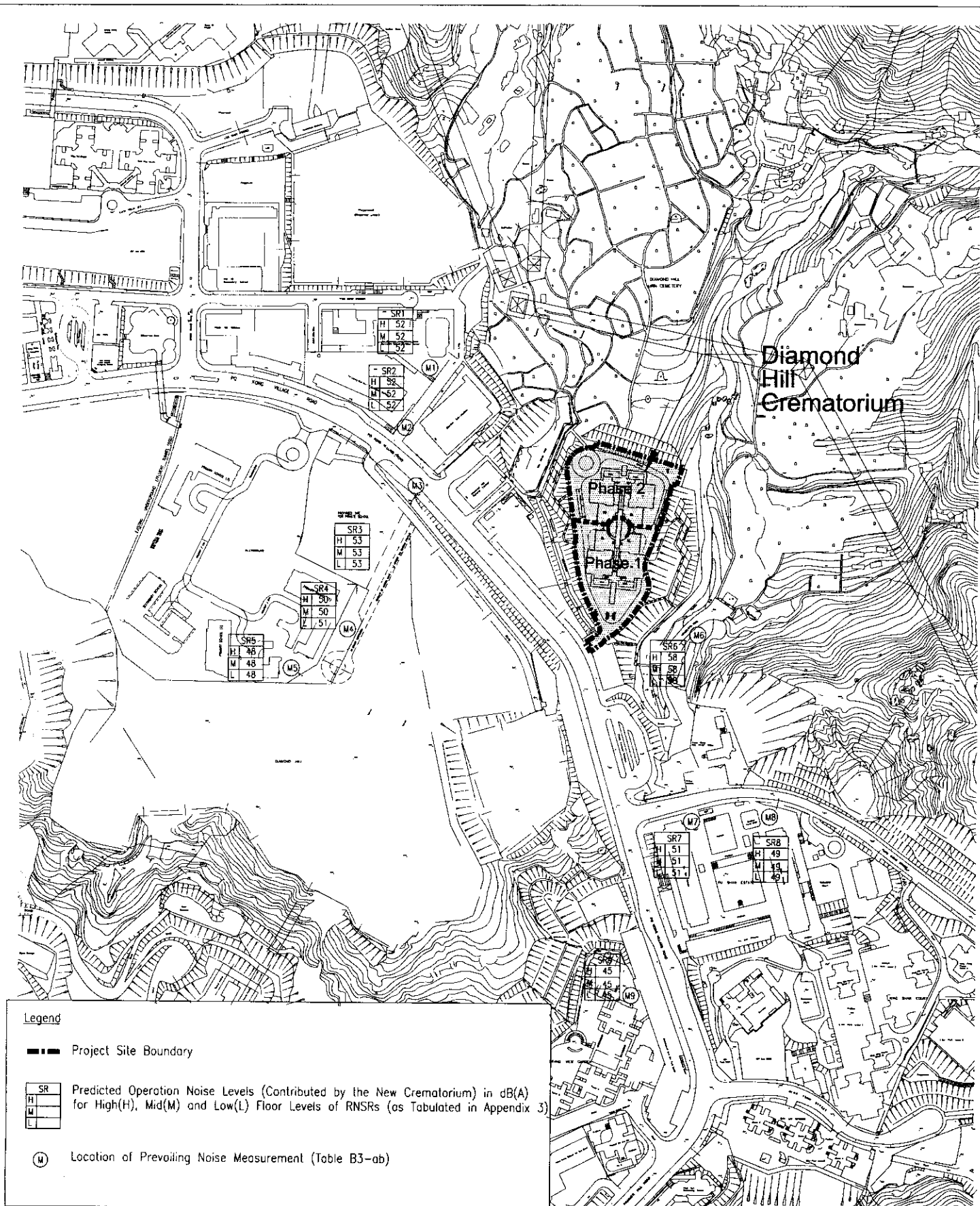
Table B3-ab : Measurement Results of the Prevailing Daytime Noise Levels in the Vicinity of the Project Site (by the Consultant)

Purpose: to measure the local prevailing daytime noise levels of the representative noise sensitive receivers
for the operation noise impact assessment of the proposed crematorium

Local Weather Condition : Sunny and calm

Remarks: 1. No dominant noise source was observed at each of the measurement location.
2. During the time of measurement, no audible/ noticeable noise from the E&M plants of the existing crematorium was observed.

Location	Description	Date	Time	Elevation	Sound Pressure Level LAeq(30min), dB(A)
M1	The Salvation Army William Booth Secondary School	1-2 Aug 2003	0900-1100, 1300-1600, 1700-1900	1.5m above local ground	61-72
M2	Po Leung Kuk No1. W. H. Cheung College	1-2 Aug 2003	0900-1100, 1300-1600, 1700-1900	1.5m above local ground	61-72
M3	(New school under construction)	1-2 Aug 2003	0900-1100, 1300-1600, 1700-1900	1.5m above local ground	60-65
M4	Po Leung Kuk Grandmont Primary School	1-2 Aug 2003	0900-1100, 1300-1600, 1700-1900	1.5m above local ground	60-65
M5	St. Patrick Catholic Primary School	1-2 Aug 2003	0900-1100, 1300-1600, 1700-1900	1.5m above local ground	60-65
M6	Staff Quarter for Diamond Hill Crematorium	1-2 Aug 2003	0900-1100, 1300-1600, 1700-1900	1.5m above local ground	60-63
M7	Fu Yan Hse	1-2 Aug 2003	0900-1100, 1300-1600, 1700-1900	1.5m above local ground	63-71
M8	Fu Shun Hse	1-2 Aug 2003	0900-1100, 1300-1600, 1700-1900	1.5m above local ground	63-71
M9	Grand View Garden (Blk 1)	1-2 Aug 2003	0900-1100, 1300-1600, 1700-1900	1.5m above local ground	63-71



LOCATION PLAN



**Hong Kong
Productivity Council**
香港生產力促進局

Project Title : Reprovisioning of Diamond Hill Crematorium EIA

Figure B3: Location Plan of Existing Prevailing Noise and Predicted Operation Noise Assessment