

Noise Measurements for Existing Fixed Plant Noise Sources

Monitoring Location	1	2	3	4	5	6	7	8
Measured Noise Source	EFS1	EFS2	EFS3	EFS4	EFS5	EFS6	EFS7	EFS8
Date of Monitoring	23-Jul-13	23-Jul-13	23-Jul-13	23-Jul-13	23-Jul-13	23-Jul-13	23-Jul-13	23-Jul-13
Measurement Start Time	12:05	12:35	13:10	13:25	13:40	13:55	14:05	14:20
Measurement End Time	12:10	12:40	13:15	13:30	13:45	14:00	14:10	14:25
Measurement Time Length (min)	5	5	5	5	5	5	5	5
Weather Condition	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
Noise Meter Model	NL-18	NL-18	NL-18	NL-18	NL-18	NL-18	NL-18	NL-18
Measurement Result, dB (A)								
Leq	59	63	58	61	57	69	67	63
Other Noise Sources during Monitoring	Traffic Noise	Traffic Noise	Traffic Noise	Traffic Noise	Traffic Noise	Traffic Noise	Traffic Noise	Traffic Noise
Remarks	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facade Measurement	X	X	X	X	X	X	X	X
Approximate Dimension of Noise Source (i.e. meter x meter of louver)	1.5 x 1	2 x 1	2 x 1	2 x 1	1 x 1	2 x 1	2 x 1	4 x 3
Sources Height (meter above ground)	2.0	4.0	3.0	4.0	3.0	4.0	10.0	10.0
Microphone Height (meter above ground)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Horizontal Dist between source and SLM (m)	6.0	6.0	8.0	6.0	7.0	6.0	6.0	10.0
Calculated Slant Distance (m)	6.0	6.5	8.1	6.5	7.2	6.5	10.4	13.1
Distance Correction, dB(A)	24	24	26	24	25	24	28	30
Facade Correction, dB(A)	0	0	0	0	0	0	0	0
Corrected SWL¹	83	87	84	85	82	93	95	93

Notes:

1. Corrected Sound Power Level (SWL) = Measured Leq + Distance Correction - Facade Correction
2. Calculated SWL for day-time and evening period is also adopted for night-time period for conservative consideration
3. Leq (5min), dB(A) without being affected by aircraft noise have been measured at all locations
4. Background noise excluded aircraft noise have been included in the noise measurement for conservative consideration

Noise Measurements for Existing Fixed Plant Noise Sources

Monitoring Location	9	10	11	12	13	14	15
Measured Noise Source	EFS9	EFS10	EFS11	EFS12	EFS13	EFS14	EFS17
Date of Monitoring	23-Jul-13	23-Jul-13	23-Jul-13	23-Jul-13	23-Jul-13	23-Jul-13	23-May-13
Measurement Start Time	14:30	14:40	14:50	15:45	15:55	16:05	15:50
Measurement End Time	14:35	14:45	14:55	15:50	16:00	16:10	15:55
Measurement Time Length (min)	5	5	5	5	5	5	5
Weather Condition	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
Noise Meter Model	NL-18	NL-18	NL-18	NL-18	NL-18	NL-18	NL-18
Measurement Result, dB (A)							
Leq	63	63	63	64	66	65	59
Other Noise Sources during Monitoring	Traffic Noise	Traffic Noise	Traffic Noise	Traffic Noise	Traffic Noise	Traffic Noise	N/A
Remarks	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facade Measurement	X	X	X	X	X	X	X
Approximate Dimension of Noise Source (i.e. meter x meter of louver)	2 x 2	2 x 1	2 x 1	3 x 2	2 x 2	2 x 2	--
Sources Height (meter above ground)	0.5	5.0	4.0	5.0	4.0	4.0	1.5
Microphone Height (meter above ground)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Horizontal Dist between source and SLM (m)	6.0	6.0	6.0	10.0	6.0	6.0	100.0
Calculated Slant Distance (m)	6.1	6.9	6.5	10.6	6.5	6.5	100.0
Distance Correction, dB(A)	24	25	24	29	24	24	48
Facade Correction, dB(A)	0	0	0	0	0	0	0
Corrected SWL¹	87	88	87	93	90	89	107

Notes:

1. Corrected Sound Power Level (SWL) = Measured Leq + Distance Correction - Facade Correction
2. Calculated SWL for day-time and evening period is also adopted for night-time period for conservative consideration
3. Leq (5min), dB(A) without being affected by aircraft noise have been measured at all locations
4. Background noise excluded aircraft noise have been included in the noise measurement for conservative consideration