

**Spittal to Loch Buidhe to Beauly 400 kV  
OHL Connection  
Environmental Impact Assessment  
Volume 5 | Technical Appendix**

**Appendix 15.4 | Construction Noise  
Impact Assessment**

**July 2025**



## **VOLUME 5: APPENDIX 15.4 – CONSTRUCTION NOISE IMPACT ASSESSMENT**

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## 1. INTRODUCTION

- 1.1.1 The purpose of this appendix is to provide the results of the Construction Noise Impact Assessment (CNIA). A table is provided with the predicted noise levels for each construction phase and distance to either proposed works or worst case works location given the limit of deviation. In addition, a total equivalent noise level 10 m from the works is given, this is based on the predicted equipment needed by each contractor for a phase of work. The results are also compared to the construction noise limits of 55dB or 65dB depending on the time period as defined in BS5228-1. These calculations are based on the assumed equipment in **Volume 5, Appendix 15.2: Construction Activities**. The assessment follows *British Standard 5228-1:2009 +A1:2014 (BS5228), Code of Practice for Noise and Vibration Control on Construction and Open Sites*, and the results are discussed in **Volume 2, Chapter 15: Noise and Vibration** of the Environmental Impact Assessment (EIA).

## 2. CONSTRUCTION NOISE IMPACT ASSESSMENT RESULTS

### 2.1 Calculation Assumptions

- Ground absorption factor 0.5 for mixed soft and hard ground
- Free-field
- No change in elevation or screening between source and receiver

### 2.2 Assessment Results to Proposed Alignment

**Table 1: BS 5228-1 Assessment – Foundations**

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Foundations (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
1	389	83	50	-5	-15
2	397	83	49	-6	-16
3	378	83	50	-5	-15
4	230	83	54	-1	-11
5	324	83	51	-4	-14
6	252	83	53	-2	-12
7	348	83	51	-4	-14
8	258	83	53	-2	-12
9	392	83	49	-6	-16
10	356	83	51	-4	-14
11	342	83	54	-1	-11
12	238	83	54	-1	-11
13	198	83	55	0	-10
14	266	83	56	1	-9
15	280	83	52	-3	-13
16	407	83	49	-6	-16
17	214	83	55	0	-10
18	178	83	56	1	-9
19	530	83	49	-6	-16
20	463	83	48	-7	-17
21	514	83	47	-8	-18
22	365	83	50	-5	-15

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Foundations (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
23	482	83	47	-8	-18
24	463	83	48	-7	-17
25	431	83	56	1	-9
26	431	83	49	-6	-16
27	500	83	47	-8	-18
28	414	83	50	-5	-15
29	328	83	51	-4	-14
30	443	83	49	-6	-16
31	387	83	50	-5	-15
32	191	83	57	2	-8
33	357	83	50	-5	-15
34	267	83	54	-1	-11
35	470	83	48	-7	-17
36	159	83	58	3	-7
37	242	83	55	0	-10
38	536	83	47	-8	-18
39	487	83	48	-7	-17
40	440	83	48	-7	-17
41	344	83	51	-4	-14
42	484	83	55	0	-10
43	439	83	53	-2	-12
44	203	83	55	0	-10
45	480	92	56	1	-9
46	352	92	59	4	-6
47	392	92	58	3	-7
48	249	92	62	7	-3
49	493	92	55	0	-7
50	395	92	58	3	-7
51	302	92	60	5	-5

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Foundations (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
52	352	92	59	4	-6
53	216	92	63	8	-2
54	400	92	57	2	-8
55	388	92	58	3	-7
56	315	92	60	5	-5
57	360	92	58	3	-7
58	284	92	61	6	-4
59	335	92	60	5	-5
60	295	92	61	6	-4
61	489	92	55	0	-10
62	385	92	58	3	-7
63	457	92	56	1	-9
64	234	92	63	8	-2
65	353	92	59	-4	-6
66	468	92	56	1	-9
67	279	92	61	6	-4
68	371	92	58	3	-7
69	232	92	63	8	-2
70	257	92	62	7	-3
71	262	92	61	6	-4
72	240	92	63	8	-2
73	249	92	63	8	-2
74	253	92	62	7	-3
75	308	92	60	5	-5
76	300	92	60	5	-5
77	282	92	61	6	-4
78	268	92	61	6	-4
79	484	92	57	2	-8
80	448	92	60	5	-5

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Foundations (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
81	485	92	56	1	-9
82	324	92	61	6	-4
83	382	92	59	4	-6
84	386	92	60	5	-5
85	272	92	61	6	-4
86	393	92	61	6	-4
87	203	92	64	9	-1
88	476	92	56	1	-9
89	297	92	60	5	-5

**Table 2: BS 5228-1 Assessment – Tower Assembly and Erection**

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Tower Assembly and Erection (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
1	389	86	52	-3	-13
2	397	86	52	-3	-13
3	378	86	52	-3	-13
4	230	86	57	2	-8
5	324	86	53	-2	-12
6	252	86	56	1	-9
7	348	86	53	-2	-12
8	258	86	56	1	-9
9	392	86	52	-3	-13
10	356	86	53	-2	-12
11	342	86	55	0	-10
12	238	86	56	1	-9
13	198	86	58	3	-7
14	266	86	57	2	-8

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Tower Assembly and Erection (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
15	280	86	55	0	-10
16	407	86	51	-4	-14
17	214	86	57	2	-8
18	178	86	59	4	-6
19	530	86	50	-5	-15
20	463	86	50	-5	-15
21	514	86	49	-6	-16
22	365	86	53	-2	-12
23	482	86	50	-5	-15
24	463	86	50	-5	-15
25	431	86	56	1	-9
26	431	86	51	-4	-14
27	500	86	50	-5	-15
28	414	86	52	-3	-13
29	328	86	53	-2	-12
30	443	86	51	-4	-14
31	387	86	52	-3	-13
32	191	86	59	4	-6
33	357	86	53	-2	-12
34	267	86	56	1	-9
35	470	86	50	-5	-15
36	159	86	60	5	-5
37	242	86	57	2	-8
38	536	86	49	-6	-16
39	487	86	50	-5	-15
40	440	86	51	-4	-14
41	344	86	53	-2	-12
42	484	86	55	0	-10
43	439	86	54	-1	-11
44	203	86	59	4	-6



NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Tower Assembly and Erection (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
45	480	88	53	-2	-12
46	352	88	56	1	-9
47	392	88	54	-1	-11
48	249	88	58	3	-7
49	493	88	52	-3	-13
50	395	88	54	-1	-11
51	302	88	56	1	-9
52	352	88	55	0	-10
53	216	88	60	5	-5
54	400	88	54	-1	-11
55	388	88	54	-1	-11
56	315	88	56	1	-9
57	360	88	55	0	-10
58	284	88	57	2	-8
59	335	88	57	2	-8
60	295	88	58	3	-7
61	489	88	52	-3	-13
62	385	88	54	-1	-11
63	457	88	52	-3	-13
64	234	88	59	4	-6
65	353	88	55	0	-10
66	468	88	52	-3	-13
67	279	88	57	2	-8
68	371	88	54	-1	-11
69	232	88	59	4	-6
70	257	88	58	3	-7
71	262	88	58	3	-7
72	240	88	60	5	-5
73	249	88	60	5	-5
74	253	88	59	4	-6

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Tower Assembly and Erection (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
75	308	88	57	2	-8
76	300	88	56	1	-9
77	282	88	57	2	-8
78	268	88	58	3	-7
79	484	88	54	-1	-11
80	448	88	59	4	-6
81	485	88	53	-2	-12
82	324	88	58	3	-7
83	382	88	57	2	-8
84	386	88	59	4	-6
85	272	88	58	3	-7
86	393	88	60	5	-5
87	203	88	61	6	-4
88	476	88	52	-3	-13
89	297	88	56	1	-9

**Table 3: BS 5228-1 Assessment – Civil/Access Works**

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Civil/Access Works (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
1	271	83	52	-3	-13
2	331	83	51	-4	-14
3	314	83	51	-4	-14
4	118	83	60	5	-5
5	302	83	51	-4	-14
6	176	83	56	1	-9
7	232	83	54	-1	-11
8	223	83	54	-1	-11
9	392	83	49	-6	-16

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Civil/Access Works (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
10	121	83	60	5	-5
11	41	83	70	15	5
12	233	83	54	-1	-11
13	186	83	56	1	-9
14	32	83	73	18	8
15	246	83	53	-2	-12
16	309	83	51	-4	-14
17	159	83	57	2	-8
18	150	83	58	3	-7
19	149	83	58	3	-7
20	438	83	48	-7	-17
21	489	83	47	-8	-18
22	211	83	55	0	-10
23	483	83	47	-8	-18
24	314	83	51	-4	-14
25	19	83	78	23	13
26	185	83	56	1	-9
27	459	83	48	-7	-17
28	154	83	58	3	-7
29	308	83	51	-4	-14
30	257	83	53	-2	-12
31	176	83	56	1	-9
32	39	83	71	16	6
33	328	83	51	-4	-14
34	62	83	66	11	1
35	276	83	52	-3	-13
36	102	83	62	7	-3
37	62	83	66	11	1
38	452	83	48	-7	-17
39	406	83	49	-6	-16

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Civil/Access Works (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
40	363	83	50	-5	-15
41	209	83	55	0	-10
42	25	83	75	20	10
43	46	83	69	14	4
44	41	83	70	15	5
45	132	89	65	10	0
46	67	89	71	16	6
47	368	89	55	0	-10
48	249	89	59	4	-6
49	413	89	54	-1	-11
50	318	89	56	1	-9
51	226	89	60	5	-5
52	182	89	62	7	-3
53	175	89	62	7	-3
54	279	89	58	3	-7
55	302	89	57	2	-8
56	321	89	56	1	-9
57	198	89	61	6	-4
58	257	89	58	3	-7
59	29	89	80	25	15
60	47	89	75	20	10
61	535	89	52	-3	-13
62	433	89	53	-2	-12
63	505	89	52	-3	-13
64	126	89	65	10	0
65	344	89	56	1	-9
66	516	89	52	-3	-13
67	93	89	68	13	3
68	314	89	57	2	-8
69	225	89	60	5	-5

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Civil/Access Works (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
70	288	89	57	2	-8
71	213	89	60	5	-5
72	16	89	85	30	20
73	25	89	81	26	16
74	31	89	79	24	14
75	116	89	66	11	1
76	246	89	59	4	-6
77	240	89	59	4	-6
78	180	89	62	7	-3
79	60	89	72	17	7
80	10	89	90	35	25
81	110	89	67	12	2
82	20	89	83	28	18
83	25	89	81	26	16
84	12	89	88	33	23
85	59	89	73	18	8
86	9	89	91	36	26
87	42	89	76	21	11
88	436	89	53	-2	-12
89	307	89	57	2	-8

**Table 4: BS 5228-1 Assessment – Stringing**

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Stringing (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
1	389	81	48	-7	-17
2	397	81	48	-7	-17
3	378	81	48	-7	-17
4	230	81	53	-2	-12

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Stringing (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
5	324	81	49	-6	-16
6	252	81	52	-3	-13
7	348	81	49	-6	-16
8	258	81	51	-4	-14
9	392	81	48	-7	-17
10	356	81	50	-5	-15
11	342	81	53	-2	-12
12	238	81	52	-3	-13
13	198	81	54	-1	-11
14	266	81	55	0	-10
15	280	81	51	-4	-14
16	407	81	48	-7	-17
17	214	81	53	-2	-12
18	178	81	55	0	-10
19	530	81	48	-7	-17
20	463	81	46	-9	-19
21	514	81	46	-9	-19
22	365	81	49	-6	-16
23	482	81	46	-9	-19
24	463	81	47	-8	-18
25	431	81	56	1	-9
26	431	81	48	-7	-17
27	500	81	46	-9	-19
28	414	81	49	-6	-16
29	328	81	49	-6	-16
30	443	81	48	-7	-17
31	387	81	49	-6	-16
32	191	81	56	1	-9
33	357	81	49	-6	-16
34	267	81	53	-2	-12

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Stringing (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
35	470	81	47	-8	-18
36	159	81	56	1	-9
37	242	81	54	-1	-11
38	536	81	45	-10	-20
39	487	81	46	-9	-19
40	440	81	47	-8	-18
41	344	81	49	-6	-16
42	484	81	55	0	-10
43	439	81	52	-3	-13
44	203	81	53	-2	-12
45	480	87	52	-3	-13
46	352	87	55	0	-10
47	392	87	52	-3	-13
48	249	87	57	2	-8
49	493	87	50	-5	-15
50	395	87	52	-3	-13
51	302	87	55	0	-10
52	352	87	54	-1	-11
53	216	87	58	3	-7
54	400	87	52	-3	-13
55	388	87	53	-2	-12
56	315	87	54	-1	-11
57	360	87	53	-2	-12
58	284	87	55	0	-10
59	335	87	57	2	-8
60	295	87	56	1	-9
61	489	87	50	-5	-15
62	385	87	52	-3	-13
63	457	87	51	-4	-14
64	234	87	57	2	-8

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Stringing (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
65	353	87	53	-2	-12
66	468	87	51	-4	-14
67	279	87	56	1	-9
68	371	87	53	-2	-12
69	232	87	57	2	-8
70	257	87	56	1	-9
71	262	87	56	1	-9
72	240	87	59	4	-6
73	249	87	58	3	-7
74	253	87	58	3	-7
75	308	87	55	0	-10
76	300	87	55	0	-10
77	282	87	55	0	-10
78	268	87	56	1	-9
79	484	87	53	-2	-12
80	448	87	59	4	-6
81	485	87	52	-3	-13
82	324	87	58	3	-7
83	382	87	56	1	-9
84	386	87	58	3	-7
85	272	87	57	2	-8
86	393	87	59	4	-6
87	203	87	59	4	-6
88	476	87	51	-4	-14
89	297	87	55	0	-10



**Table 5: BS 5228-1 Assessment – Felling**

NSR	Distance to nearest area of felling within operational corridor	Total Equivalent Noise Level at 10 m from Felling (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB	Construction Noise Limit = 65 dB
				Construction Noise Limit Exceedance	Construction Noise Limit Exceedance
1	1722	91	46	-9	-19
2	1188	91	47	-8	-18
3	1175	91	47	-8	-18
4	706	91	52	-3	-13
5	843	91	50	-5	-15
6	2754	91	46	-9	-19
7	270	91	60	5	-5
8	419	91	56	1	-9
9	820	91	50	-5	-15
10	1220	91	49	-6	-16
11	1370	91	53	-2	-12
12	2033	91	46	-9	-19
13	2285	91	46	-9	-19
14	3948	91	53	-2	-12
15	5435	91	44	-11	-21
16	5115	91	44	-11	-21
17	4040	91	46	-9	-19
18	3703	91	47	-8	-18
19	1783	91	48	-7	-17
20	953	91	49	-6	-16
21	699	91	51	-4	-14
22	989	91	49	-6	-16
23	3953	91	42	-13	-23
24	3668	91	44	-11	-21
25	3369	91	55	0	-10
26	3166	91	46	-9	-19
27	2873	91	43	-12	-22
28	1072	91	49	-6	-16
29	900	91	49	-6	-16
30	631	91	52	-3	-13

NSR	Distance to nearest area of felling within operational corridor	Total Equivalent Noise Level at 10 m from Felling (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB	Construction Noise Limit = 65 dB
				Construction Noise Limit Exceedance	Construction Noise Limit Exceedance
31	353	91	57	2	-8
32	549	91	56	1	-9
33	318	91	58	3	-7
34	229	91	62	7	-3
35	422	91	56	1	-9
36	207	91	63	8	-2
37	277	91	60	5	-5
38	873	91	49	-6	-16
39	851	91	49	-6	-16
40	834	91	50	-5	-15
41	599	91	53	-2	-12
42	455	91	57	2	-8
43	364	91	58	3	-7
44	185	91	64	9	-1
45	413	91	56	1	-9
46	342	91	58	3	-7
47	331	91	58	3	-7
48	189	91	63	8	-2
49	443	91	55	0	-10
50	345	91	58	3	-7
51	254	91	60	5	-5
52	305	91	59	4	-6
53	170	91	64	9	-1
54	306	91	59	4	-6
55	343	91	58	3	-7
56	275	91	60	5	-5
57	317	91	58	3	-7
58	222	91	62	7	-3
59	258	91	61	6	-4
60	228	91	62	7	-3
61	676	91	51	-4	-14

NSR	Distance to nearest area of felling within operational corridor	Total Equivalent Noise Level at 10 m from Felling (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB	Construction Noise Limit = 65 dB
				Construction Noise Limit Exceedance	Construction Noise Limit Exceedance
62	522	91	54	-1	-11
63	565	91	53	-2	-12
64	167	91	65	10	0
65	344	91	58	3	-7
66	517	91	54	-1	-11
67	223	91	62	7	-3
68	643	91	52	-3	-13
69	563	91	53	-2	-12
70	398	91	56	1	-9
71	800	91	51	-4	-14
72	598	91	58	3	-7
73	606	91	56	1	-9
74	611	91	56	1	-9
75	682	91	52	-3	-13
76	273	91	60	5	-5
77	261	91	60	5	-5
78	515	91	54	-1	-11
79	438	91	56	1	-9
80	399	91	60	5	-5
81	438	91	56	1	-9
82	278	91	61	6	-4
83	313	91	60	5	-5
84	336	91	60	5	-5
85	189	91	64	9	-1
86	347	91	61	6	-4
87	131	91	67	12	2
88	417	91	56	1	-9
89	200	91	63	8	-2

### 2.3 Assessment Results to Worst Case Tower Location within Limit of Deviation (LoD)

**Table 6: BS 5228-1 Assessment – Foundations**

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Foundations (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB	Construction Noise Limit = 65 dB
				Construction Noise Limit Exceedance	Construction Noise Limit Exceedance
1	334	83	51	-4	-14
2	342	83	50	-5	-15
3	323	83	51	-4	-14
4	175	83	57	2	-8
5	269	83	52	-3	-13
6	197	83	55	0	-10
7	293	83	52	-3	-13
8	203	83	55	0	-10
9	337	83	50	-5	-15
10	301	83	52	-3	-13
11	287	83	55	0	-10
12	183	83	56	1	-9
13	143	83	58	3	-7
14	211	83	57	2	-8
15	225	83	54	-1	-11
16	352	83	50	-5	-15
17	159	83	57	2	-8
18	123	83	60	5	-5
19	475	83	49	-6	-16
20	408	83	49	-6	-16
21	459	83	48	-7	-17
22	310	83	52	-3	-13
23	427	83	48	-7	-17
24	408	83	49	-6	-16
25	376	83	56	1	-9
26	376	83	50	-5	-15
27	445	83	48	-7	-17
28	359	83	51	-4	-14
29	273	83	52	-3	-13

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Foundations (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
30	388	83	50	-5	-15
31	332	83	51	-4	-14
32	136	83	59	4	-6
33	302	83	51	-4	-14
34	212	83	56	1	-9
35	415	83	49	-6	-16
36	104	83	61	6	-4
37	187	83	57	2	-8
38	481	83	47	-8	-18
39	432	83	48	-7	-17
40	385	83	49	-6	-16
41	289	83	52	-3	-13
42	429	83	55	0	-10
43	384	83	53	-2	-12
44	148	83	58	3	-7
45	425	92	57	2	-8
46	297	92	61	6	-4
47	337	92	59	4	-6
48	194	92	64	9	-1
49	438	92	56	1	-9
50	340	92	59	4	-6
51	247	92	62	7	-3
52	297	92	60	5	-5
53	161	92	66	11	1
54	345	92	59	4	-6
55	333	92	59	4	-6
56	260	92	62	7	-3
57	305	92	60	5	-5
58	229	92	63	8	-2
59	280	92	61	6	-4

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Foundations (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
60	240	92	63	8	-2
61	434	92	57	2	-8
62	330	92	59	4	-6
63	402	92	57	2	-8
64	179	92	65	10	0
65	298	92	60	5	-5
66	413	92	57	2	-8
67	224	92	63	8	-2
68	316	92	60	5	-5
69	177	92	65	10	0
70	202	92	64	9	-1
71	207	92	64	9	-1
72	185	92	65	10	0
73	194	92	65	10	0
74	198	92	64	9	-1
75	253	92	62	7	-3
76	245	92	62	7	-3
77	227	92	63	8	-2
78	213	92	63	8	-2
79	429	92	57	2	-8
80	393	92	61	6	-4
81	430	92	57	2	-8
82	269	92	62	7	-3
83	327	92	60	5	-5
84	331	92	61	6	-4
85	217	92	63	8	-2
86	338	92	62	7	-3
87	148	92	67	12	2
88	421	92	57	2	-8
89	242	92	62	7	-3

**Table 7: BS 5228-1 Assessment – Tower Assembly and Erection**

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Tower Assembly and Erection (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB	Construction Noise Limit = 65 dB
				Construction Noise Limit Exceedance	Construction Noise Limit Exceedance
1	334	86	53	-2	-12
2	342	86	53	-2	-12
3	323	86	53	-2	-12
4	175	86	59	4	-6
5	269	86	55	0	-10
6	197	86	58	3	-7
7	293	86	54	-1	-11
8	203	86	58	3	-7
9	337	86	53	-2	-12
10	301	86	55	0	-10
11	287	86	56	1	-9
12	183	86	59	4	-6
13	143	86	61	6	-4
14	211	86	59	4	-6
15	225	86	57	2	-8
16	352	86	53	-2	-12
17	159	86	60	5	-5
18	123	86	63	8	-2
19	475	86	51	-4	-14
20	408	86	51	-4	-14
21	459	86	50	-5	-15
22	310	86	54	-1	-11
23	427	86	51	-4	-14
24	408	86	51	-4	-14
25	376	86	57	2	-8
26	376	86	53	-2	-12
27	445	86	51	-4	-14
28	359	86	53	-2	-12
29	273	86	55	0	-10
30	388	86	52	-3	-13

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Tower Assembly and Erection (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
31	332	86	54	-1	-11
32	136	86	62	7	-3
33	302	86	54	-1	-11
34	212	86	58	3	-7
35	415	86	51	-4	-14
36	104	86	64	9	-1
37	187	86	59	4	-6
38	481	86	50	-5	-15
39	432	86	51	-4	-14
40	385	86	52	-3	-13
41	289	86	55	0	-10
42	429	86	56	1	-9
43	384	86	54	-1	-11
44	148	86	61	6	-4
45	425	88	54	-1	-11
46	297	88	57	2	-8
47	337	88	55	0	-10
48	194	88	61	6	-4
49	438	88	53	-2	-12
50	340	88	55	0	-10
51	247	88	58	3	-7
52	297	88	57	2	-8
53	161	88	62	7	-3
54	345	88	55	0	-10
55	333	88	55	0	-10
56	260	88	58	3	-7
57	305	88	56	1	-9
58	229	88	59	4	-6
59	280	88	59	4	-6
60	240	88	59	4	-6



NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Tower Assembly and Erection (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB  Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB  Construction Noise Limit Exceedance
61	434	88	53	-2	-12
62	330	88	55	0	-10
63	402	88	54	-1	-11
64	179	88	61	6	-4
65	298	88	56	1	-9
66	413	88	53	-2	-12
67	224	88	59	4	-6
68	316	88	56	1	-9
69	177	88	61	6	-4
70	202	88	60	5	-5
71	207	88	60	5	-5
72	185	88	62	7	-3
73	194	88	61	6	-4
74	198	88	61	6	-4
75	253	88	58	3	-7
76	245	88	58	3	-7
77	227	88	59	4	-6
78	213	88	60	5	-5
79	429	88	55	0	-10
80	393	88	59	4	-6
81	430	88	54	-1	-11
82	269	88	59	4	-6
83	327	88	58	3	-7
84	331	88	59	4	-6
85	217	88	60	5	-5
86	338	88	60	5	-5
87	148	88	63	8	-2
88	421	88	53	-2	-12
89	242	88	58	3	-7

**Table 8: BS 5228-1 Assessment – Stringing**

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Stringing (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
1	334	81	49	-6	-16
2	342	81	49	-6	-16
3	323	81	49	-6	-16
4	175	81	55	0	-10
5	269	81	51	-4	-14
6	197	81	54	-1	-11
7	293	81	50	-5	-15
8	203	81	53	-2	-12
9	337	81	49	-6	-16
10	301	81	51	-4	-14
11	287	81	54	-1	-11
12	183	81	54	-1	-11
13	143	81	56	1	-9
14	211	81	56	1	-9
15	225	81	52	-3	-13
16	352	81	49	-6	-16
17	159	81	56	1	-9
18	123	81	58	3	-7
19	475	81	49	-6	-16
20	408	81	47	-8	-18
21	459	81	46	-9	-19
22	310	81	50	-5	-15
23	427	81	47	-8	-18
24	408	81	48	-7	-17
25	376	81	56	1	-9
26	376	81	49	-6	-16
27	445	81	47	-8	-18
28	359	81	50	-5	-15
29	273	81	51	-4	-14
30	388	81	48	-7	-17

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Stringing (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
31	332	81	50	-5	-15
32	136	81	58	3	-7
33	302	81	50	-5	-15
34	212	81	54	-1	-11
35	415	81	48	-7	-17
36	104	81	59	4	-6
37	187	81	55	0	-10
38	481	81	46	-9	-19
39	432	81	47	-8	-18
40	385	81	48	-7	-17
41	289	81	51	-4	-14
42	429	81	55	0	-10
43	384	81	53	-2	-12
44	148	81	56	1	-9
45	425	87	53	-2	-12
46	297	87	56	1	-9
47	337	87	54	-1	-11
48	194	87	59	4	-6
49	438	87	51	-4	-14
50	340	87	54	-1	-11
51	247	87	57	2	-8
52	297	87	55	0	-10
53	161	87	61	6	-4
54	345	87	54	-1	-11
55	333	87	54	-1	-11
56	260	87	56	1	-9
57	305	87	55	0	-10
58	229	87	57	2	-8
59	280	87	57	2	-8
60	240	87	58	3	-7

NSR	Distance to nearest tower	Total Equivalent Noise Level at 10 m from Stringing (dB)	Sound Pressure Level at Receptor (dB)	Construction Noise Limit = 55 dB Construction Noise Limit Exceedance	Construction Noise Limit = 65 dB Construction Noise Limit Exceedance
61	434	87	51	-4	-14
62	330	87	54	-1	-11
63	402	87	52	-3	-13
64	179	87	60	5	-5
65	298	87	55	0	-10
66	413	87	52	-3	-13
67	224	87	58	3	-7
68	316	87	54	-1	-11
69	177	87	60	5	-5
70	202	87	58	3	-7
71	207	87	58	3	-7
72	185	87	61	6	-4
73	194	87	60	5	-5
74	198	87	60	5	-5
75	253	87	57	2	-8
76	245	87	57	2	-8
77	227	87	57	2	-8
78	213	87	58	3	-7
79	429	87	54	-1	-11
80	393	87	59	4	-6
81	430	87	53	-2	-12
82	269	87	58	3	-7
83	327	87	57	2	-8
84	331	87	59	4	-6
85	217	87	58	3	-7
86	338	87	60	5	-5
87	148	87	62	7	-3
88	421	87	52	-3	-13
89	242	87	57	2	-8

