

Indaver Rivenhall IWMF DCO

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure)

Regulations 2009

## **ENVIRONMENTAL STATEMENT [PINS Ref: EN0101038]**

# **ES APPENDIX 8.2: NOISE MODEL INPUT DATA PROVIDED BY EPC CONTRACTOR**

Document Reference: EN0101038/APP/6.2

Revision Number 1.0

APFP Regulation 5(2)(a)

November 2023

Indaver Rivenhall Ltd

Leading the field in  
sustainable waste  
management.

## Rivenhall Source Noise Data – Provided by HZI

**Table 1: Sound Power Level Data for Proposed Operational Plant**

Name	Type	Sound Power Level (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
001 ACC duct	LI	99.6	95.7	96.2	90	88.8	83.6	81.7	72.6	69.2	90.3	102.8
002 ACC duct	LI	105.4	101.5	102	95.8	94.6	89.4	87.5	78.4	75	96.1	108.6
003 ACC duct	LI	99.6	95.7	96.2	90	88.8	83.6	81.7	72.6	69.2	90.3	102.8
004 ACC in	AH		105.6	105.6	100.6	97.6	95.6	87.6	82.6	78.6	100	109.7
005 ACC out	AH		104.6	104.6	99.6	96.6	94.6	86.6	81.6	77.6	99	108.7
006 ADV Boiler 1	PT	79	79	74	75	77	83	92	94	89	97.9	97.3
007 ADV Boiler 2	PT	79	79	74	75	77	83	92	94	89	97.9	97.3
008 Start up ejector ST	PT	79	79	74	75	77	83	92	94	89	97.9	97.3
009 Hogger ST	PT	79	79	74	75	77	83	92	94	89	97.9	97.3
010 CCW	AV	89.2	89.2	85.2	85.2	81.2	79.2	75.2	69.2	63.2	84.1	94.1
011 CCW	AV	94.7	94.7	90.7	90.7	86.7	84.7	80.7	74.7	68.7	89.6	99.6
012 CCW	AV	89.2	89.2	85.2	85.2	81.2	79.2	75.2	69.2	63.2	84.1	94.1
013 CCW	AV	94.7	94.7	90.7	90.7	86.7	84.7	80.7	74.7	68.7	89.6	99.6
014 CCW	AH	95.6	95.6	91.6	91.6	87.6	85.6	81.6	75.6	69.6	90.5	100.5



Name	Type	Sound Power Level (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
015 CCW	AV	89.2	89.2	85.2	85.2	81.2	79.2	75.2	69.2	63.2	84.1	94.1
016 CCW	AV	94.7	94.7	90.7	90.7	86.7	84.7	80.7	74.7	68.7	89.6	99.6
017 CCW	AV	89.2	89.2	85.2	85.2	81.2	79.2	75.2	69.2	63.2	84.1	94.1
018 CCW	AV	94.7	94.7	90.7	90.7	86.7	84.7	80.7	74.7	68.7	89.6	99.6
019 CCW	AH	95.6	95.6	91.6	91.6	87.6	85.6	81.6	75.6	69.6	90.5	100.5
020 CCW	AV	89.2	89.2	85.2	85.2	81.2	79.2	75.2	69.2	63.2	84.1	94.1
021 CCW	AV	94.7	94.7	90.7	90.7	86.7	84.7	80.7	74.7	68.7	89.6	99.6
022 CCW	AV	89.2	89.2	85.2	85.2	81.2	79.2	75.2	69.2	63.2	84.1	94.1
023 CCW	AV	94.7	94.7	90.7	90.7	86.7	84.7	80.7	74.7	68.7	89.6	99.6
024 CCW	AH	95.6	95.6	91.6	91.6	87.6	85.6	81.6	75.6	69.6	90.5	100.5
025 CCW	AV	89.2	89.2	85.2	85.2	81.2	79.2	75.2	69.2	63.2	84.1	94.1
026 CCW	AV	94.7	94.7	90.7	90.7	86.7	84.7	80.7	74.7	68.7	89.6	99.6
027 CCW	AV	89.2	89.2	85.2	85.2	81.2	79.2	75.2	69.2	63.2	84.1	94.1
028 CCW	AV	94.7	94.7	90.7	90.7	86.7	84.7	80.7	74.7	68.7	89.6	99.6
029 CCW	AH	95.6	95.6	91.6	91.6	87.6	85.6	81.6	75.6	69.6	90.5	100.5
030 E-module	PT		80	90.5	85.5	82	76	75	70	66	84	92.6
031 E-module	PT		80	90.5	85.5	82	76	75	70	66	84	92.6
032 E-module	PT		80	90.5	85.5	82	76	75	70	66	84	92.6
033 E-module	PT		80	90.5	85.5	82	76	75	70	66	84	92.6



Name	Type	Sound Power Level (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
034 Exh duct after	LI	60.7	67.7	75.7	87.7	87.7	85.7	69.7	49.7	27.7	88.7	92
035 Exh duct after	LI	57.1	64.1	72.1	84.1	84.1	82.1	66.1	46.1	24.1	85.1	88.4
036 Exh duct after	LI	58.7	65.7	73.7	85.7	85.7	83.7	67.7	47.7	25.7	86.7	90
037 Exh duct after	LI	59.8	66.8	74.8	86.8	86.8	84.8	68.8	48.8	26.8	87.8	91.1
038 Exh befors ID	LI	59.5	70.5	74.5	78.5	79.5	79.5	63.5	43.5	21.5	81.6	84.6
039 Exh befors ID	LI	59.5	70.5	74.5	78.5	79.5	79.5	63.5	43.5	21.5	81.6	84.6
040 FF Pumps	AV	58.8	59.8	75.8	89.8	98.8	101.8	104.8	101.8	97.8	109.2	108.8
041 FF Pumps	AV	55.4	56.4	72.4	86.4	95.4	98.4	101.4	98.4	94.4	105.8	105.4
042 FF Pumps	AV	58.8	59.8	75.8	89.8	98.8	101.8	104.8	101.8	97.8	109.2	108.8
043 FF Pumps	AV	55.4	56.4	72.4	86.4	95.4	98.4	101.4	98.4	94.4	105.8	105.4
044 FF Pumps	AH	60	61	77	91	100	103	106	103	99	110.4	109.9
045 Fabric filter	AV		59.9	67.5	81.3	81.2	85.1	92	79.2	77.2	94.2	93.6
046 Fabric filter	AV		58.6	66.2	80	79.9	83.8	90.7	77.9	75.9	92.9	92.4
047 Fabric filter	AV		59.9	67.5	81.3	81.2	85.1	92	79.2	77.2	94.2	93.6
048 Fabric filter	AV		58.6	66.2	80	79.9	83.8	90.7	77.9	75.9	92.9	92.4
049 Fabric filter	AH		57.4	65	78.8	78.7	82.6	89.5	76.7	74.7	91.7	91.1



Name	Type	Sound Power Level (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
050 Fabric filter	AV		59.9	67.5	81.3	81.2	85.1	92	79.2	77.2	94.2	93.6
051 Fabric filter	AV		58.6	66.2	80	79.9	83.8	90.7	77.9	75.9	92.9	92.4
052 Fabric filter	AV		59.9	67.5	81.3	81.2	85.1	92	79.2	77.2	94.2	93.6
053 Fabric filter	AV		58.6	66.2	80	79.9	83.8	90.7	77.9	75.9	92.9	92.4
054 Fabric filter	AH		57.4	65	78.8	78.7	82.6	89.5	76.7	74.7	91.7	91.1
055 Boiler building	AV		109.3	103.4	94.4	81.4	72.8	67.7	56.8	57.7	90.8	110.4
056 Boiler building	AV		109.3	103.4	94.4	81.4	72.8	67.7	56.8	57.7	90.8	110.4
057 Turbine building	AV		89.5	91	82.5	75.2	72.5	67.7	67.7	70.4	80.6	93.8
058 Tipping hall	AV		109.7	102.7	95.4	84.4	78.2	73.3	69.2	69.2	91.5	110.6
059 Tipping Hall	AV		103.7	96.7	89.4	78.4	72.2	67.3	63.2	63.2	85.5	104.6
060 ID fan	AV	97.2	97.2	97.2	99.2	95.2	91.2	87.2	85.2	77.2	97.3	104.8
061 ID fan	AV	94.3	94.3	94.3	96.3	92.3	88.3	84.3	82.3	74.3	94.4	101.9
062 ID fan	AV	97.2	97.2	97.2	99.2	95.2	91.2	87.2	85.2	77.2	97.3	104.8
063 ID fan	AV	94.3	94.3	94.3	96.3	92.3	88.3	84.3	82.3	74.3	94.4	101.9
064 ID fan	AH	96.5	96.5	96.5	98.5	94.5	90.5	86.5	84.5	76.5	96.6	104.1
065 ID fan	AV	97.2	97.2	97.2	99.2	95.2	91.2	87.2	85.2	77.2	97.3	104.8



Name	Type	Sound Power Level (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
066 ID fan	AV	94.3	94.3	94.3	96.3	92.3	88.3	84.3	82.3	74.3	94.4	101.9
067 ID fan	AV	97.2	97.2	97.2	99.2	95.2	91.2	87.2	85.2	77.2	97.3	104.8
068 ID fan	AV	94.3	94.3	94.3	96.3	92.3	88.3	84.3	82.3	74.3	94.4	101.9
069 ID fan	AH	96.5	96.5	96.5	98.5	94.5	90.5	86.5	84.5	76.5	96.6	104.1
070 PAC Equipment	AV		90.3	86.3	84.3	83.3	85.3	84.3	82.3	77.3	90.4	94.5
071 PAC Equipment	AV		92.4	88.4	86.4	85.4	87.4	86.4	84.4	79.4	92.5	96.6
072 PAC Equipment	AV		90.3	86.3	84.3	83.3	85.3	84.3	82.3	77.3	90.4	94.5
073 PAC Equipment	AV		92.4	88.4	86.4	85.4	87.4	86.4	84.4	79.4	92.5	96.6
074 PAC Equipment	AH		89.2	85.2	83.2	82.2	84.2	83.2	81.2	76.2	89.3	93.4
075 PAC Equipment	AV		90.3	86.3	84.3	83.3	85.3	84.3	82.3	77.3	90.4	94.5
076 PAC Equipment	AV		92.4	88.4	86.4	85.4	87.4	86.4	84.4	79.4	92.5	96.6
077 PAC Equipment	AV		90.3	86.3	84.3	83.3	85.3	84.3	82.3	77.3	90.4	94.5
078 PAC Equipment	AV		92.4	88.4	86.4	85.4	87.4	86.4	84.4	79.4	92.5	96.6
079 PAC Equipment	AH		89.2	85.2	83.2	82.2	84.2	83.2	81.2	76.2	89.3	93.4
080 Silo blow out	PT	74	74	69	70	72	78	87	89	84	92.9	92.3
081 Silo blow out	PT	74	74	69	70	72	78	87	89	84	92.9	92.3
082 Silo blow out	PT	74	74	69	70	72	78	87	89	84	92.9	92.3



Name	Type	Sound Power Level (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
083 Silo blow out	PT	74	74	69	70	72	78	87	89	84	92.9	92.3
084 Silo blow out	PT	74	74	69	70	72	78	87	89	84	92.9	92.3
085 Stack op 250°C	PT	107.7	107.7	101.5	99.2	89	78.7	71.7	70	62.3	93.3	111.5
086 Stack op 250°C	PT	107.7	107.7	101.5	99.2	89	78.7	71.7	70	62.3	93.3	111.5
087 Stack op 140°C	PT	107	107.2	99.4	95.7	84	76.2	72.1	71.7	61.9	90.3	110.6
088 Stack op 140°C	PT	107	107.2	99.4	95.7	84	76.2	72.1	71.7	61.9	90.3	110.6
089 Trafo	AV	92.8	94.8	96.8	91.8	91.8	85.8	80.8	75.8	68.8	92.2	101.3
090 Trafo	AV	89.7	91.7	93.7	88.7	88.7	82.7	77.7	72.7	65.7	89	98.1
091 Trafo	AV	92.8	94.8	96.8	91.8	91.8	85.8	80.8	75.8	68.8	92.2	101.3
092 Trafo	AV	89.7	91.7	93.7	88.7	88.7	82.7	77.7	72.7	65.7	89	98.1
093 Trafo	AH	89.4	91.4	93.4	88.4	88.4	82.4	77.4	72.4	65.4	88.8	97.8
094 Boiler building	AV	116.8	109.7	106.8	96.8	88.8	81.2	81.1	76.2	73.1	94.5	118
095 Boiler building	AV	110.1	103	100.1	90.1	82.1	74.5	74.4	69.5	66.4	87.8	111.3
096 Boiler building	AV	118.9	111.8	108.9	98.9	90.9	83.3	83.2	78.3	75.2	96.6	120.1
097 Turbine building	AV	84	90.3	94.8	85.3	83	81.3	81.5	87.5	86.2	92	97.9
098 Turbine building	AV		91.1	96.6	88.1	81.8	77.1	71.3	80.3	78	87.2	98.4



Name	Type	Sound Power Level (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
099 Boiler vent out	AH		107.2	105.3	96.3	84.3	73.7	67.6	65.7	61.6	92.3	109.6
100 Boiler vent out	AH		107.2	105.3	96.3	84.3	73.7	67.6	65.7	61.6	92.3	109.6
101 IBA vent out	PT	0	84.2	79.1	76.6	75.2	73	72.8	74	69.1	80.3	86.9
102 IBA vent out	PT	0	84.2	79.1	76.6	75.2	73	72.8	74	69.1	80.3	86.9
103 IBA vent out	PT	0	84.2	79.1	76.6	75.2	73	72.8	74	69.1	80.3	86.9
104 ST vent out	PT		94.8	93.7	92.2	90.8	82.6	79.4	77.6	67.7	90.9	99.3
105 ST vent out	PT		94.8	93.7	92.2	90.8	82.6	79.4	77.6	67.7	90.9	99.3
106 ST vent out	PT		94.8	93.7	92.2	90.8	82.6	79.4	77.6	67.7	90.9	99.3
107 ST vent out	PT		94.8	93.7	92.2	90.8	82.6	79.4	77.6	67.7	90.9	99.3
108 ST vent out	PT		94.8	93.7	92.2	90.8	82.6	79.4	77.6	67.7	90.9	99.3
109 ST vent out	PT		94.8	93.7	92.2	90.8	82.6	79.4	77.6	67.7	90.9	99.3
110 ST vent out	PT		94.8	93.7	92.2	90.8	82.6	79.4	77.6	67.7	90.9	99.3
111 ST vent out	PT		94.8	93.7	92.2	90.8	82.6	79.4	77.6	67.7	90.9	99.3
112 ST vent out	PT		94.8	93.7	92.2	90.8	82.6	79.4	77.6	67.7	90.9	99.3
113 Tipping hall	AV	109.4	110.9	106.9	98.6	92.6	87.4	87.5	89.4	85.4	97.8	114.3





Name	Type	Sound Power Level (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
114 Boiler building	AV	110.9	99.8	93.9	81.9	71.9	71.3	53.2	39.3	35.2	81.5	111.3
115 Boiler building	AV	110.9	99.8	93.9	81.9	71.9	71.3	53.2	39.3	35.2	81.4	111.3
116 Boiler building	AV	112.2	101.1	95.2	83.2	73.2	72.6	54.5	40.6	36.5	82.8	112.6
117 Boiler building	AV	110.9	99.8	93.9	81.9	71.9	71.3	53.2	39.3	35.2	81.4	111.3
118 Boiler building	AH		113	103.1	86.1	69.1	54.5	46.4	36.5	30.4	90.1	113.4
119 Bunker	AV	99.2	94.2	84.5	80.3	71.5	76.1	50.3	43.3	42.7	78.9	100.6
120 Bunker	AH		107.4	93.7	84.5	68.7	59.3	43.5	40.5	37.9	83.7	107.6
121 Bottom ash	AV	102	90.6	84.7	78.1	73.7	75.4	58.2	45.8	39.3	78.3	102.4
122 Bottom ash	AV	101.6	90.2	84.3	77.7	73.3	75	57.8	45.4	38.9	77.9	102
123 Bottom ash	AH		100.5	90.6	79	67.6	55.3	48.1	39.7	31.2	78.4	100.9
124 Turbine building	AV	80.9	83.2	84.7	73.2	68.9	74.2	56.4	53.4	51.1	76.2	88.4
125 Turbine building	AV	80.3	82.6	84.1	72.6	68.3	73.6	55.8	52.8	50.5	75.6	87.7
126 Turbine building	AH		95	92.5	76	64.7	56	48.2	49.2	44.9	77.6	96.9



Name	Type	Sound Power Level (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
127 Tipping hall	AV	102	99.5	92.5	82.2	74.2	76	58.1	51	46	81.6	104.3
128 Tipping hall	AV	107.3	104.8	97.8	87.5	79.5	81.3	63.4	56.3	51.3	86.8	109.5
129 Tipping hall	AV	102	99.5	92.5	82.2	74.2	76	58.1	51	46	81.6	104.3
130 Tipping hall	AH	107.9	105.4	98.4	88.1	80.1	81.9	64	56.9	51.9	87.5	110.2



