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**Appendix 5.4C**

**Fixed Noise Assessment for Public Sports  
Ground**

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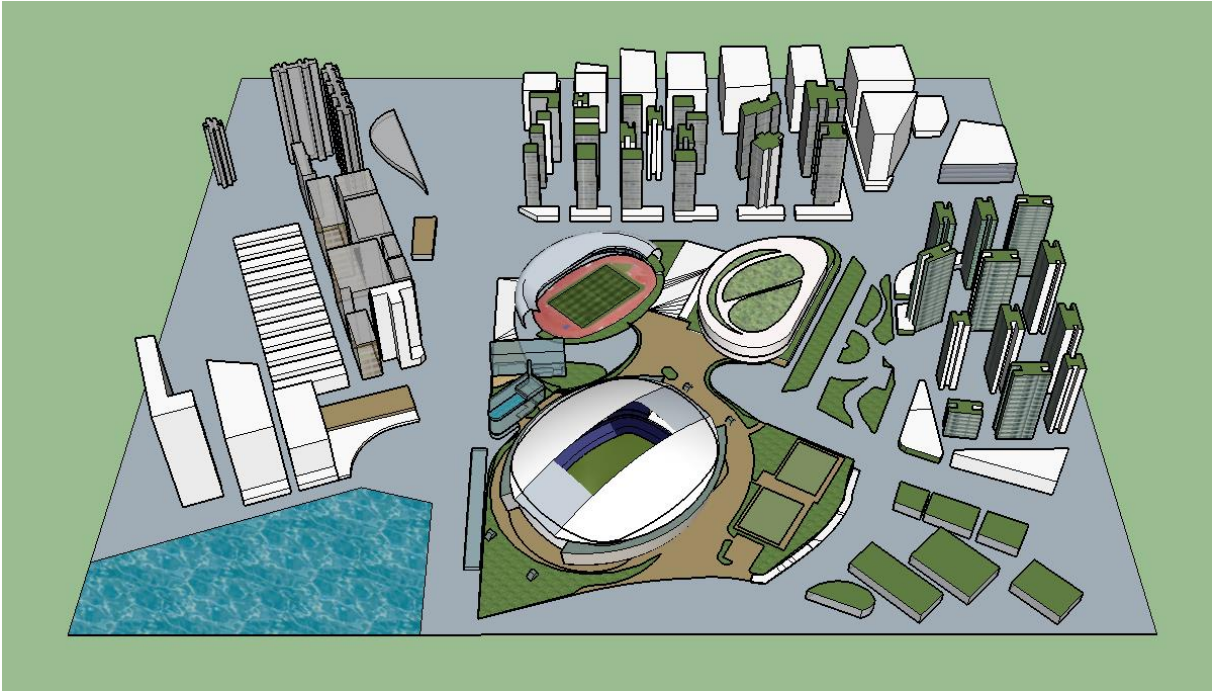
**Table 1** *Sound Absorption Panel Specification*

Frequency, Hz	63	125	250	500	1000	2000	4000	8000
Absorption coefficient	0.25	0.25	0.65	0.85	0.83	0.75	0.55	0.55

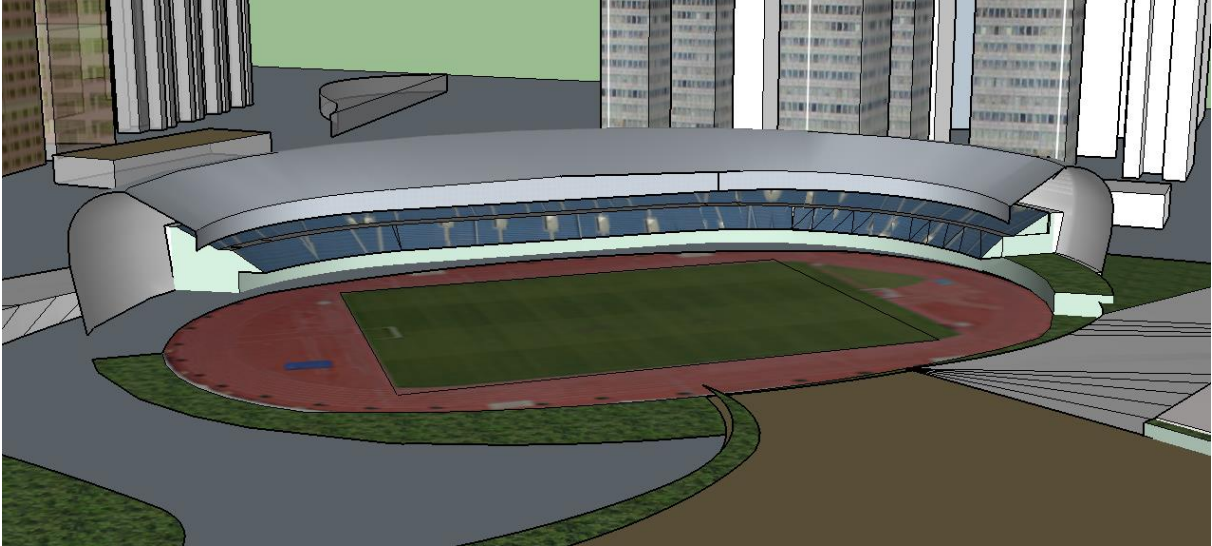
**Table 2** *Predicted noise level at NSRs*

NSR	Height, mPD	Result, dB(A), Leq (30 min)	NSR	Height, mPD	Result, dB(A), Leq (30 min)
N1	10	50	PN4	30	53
N1	20	48	PN4	50	55
N2	10	50	PN4	70	56
N2	30	54	PN4	90	56
N2	50	54	PN5	10	55
N2	70	54	PN5	30	58
N2	90	55	PN5	50	59
N2	110	54	PN5	70	59
N2	130	53	PN5	90	59
N2	150	52	PN6	10	56
PN1	15	53	PN6	30	58
PN1	35	53	PN6	50	60
PN1	55	53	PN6	70	60
PN2A	30	56	PN6	90	58
PN2A	50	59	PN7	10	43
PN2A	70	60	PN7	30	47
PN2A	90	59	PN7	50	49
PN2A	110	59	PN7	70	55
PN2B	30	55	PN7	90	57
PN2B	50	57	PN7	110	57
PN2B	70	58	PN8	10	43
PN2B	90	57	PN8	30	46
PN2B	110	57	PN8	50	47
PN3	10	53	PN8	70	53
PN3	30	56	PN8	90	58
PN3	50	57	PN8	110	59
PN3	70	58	PN9	10	51
PN3	90	57	PN9	25	51
PN4	10	51	PN9	40	51

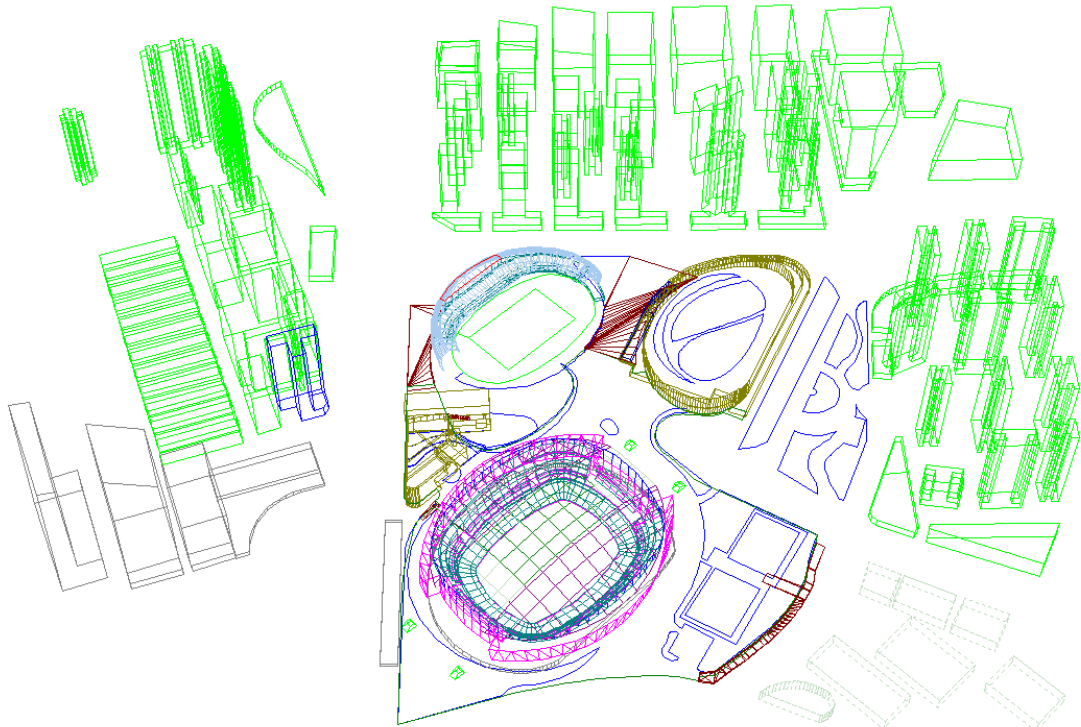
**Figure 1 3D model of MPSC and its surroundings**



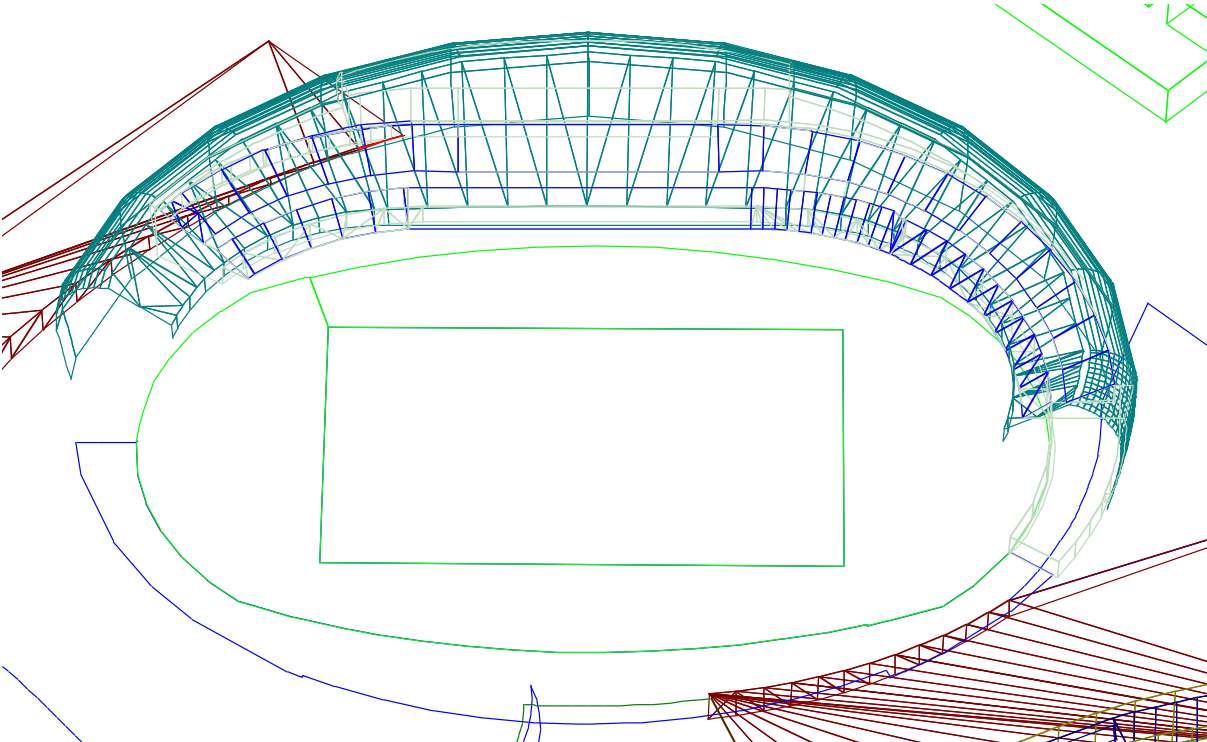
**Figure 2 3D model of the Public Sports Ground**



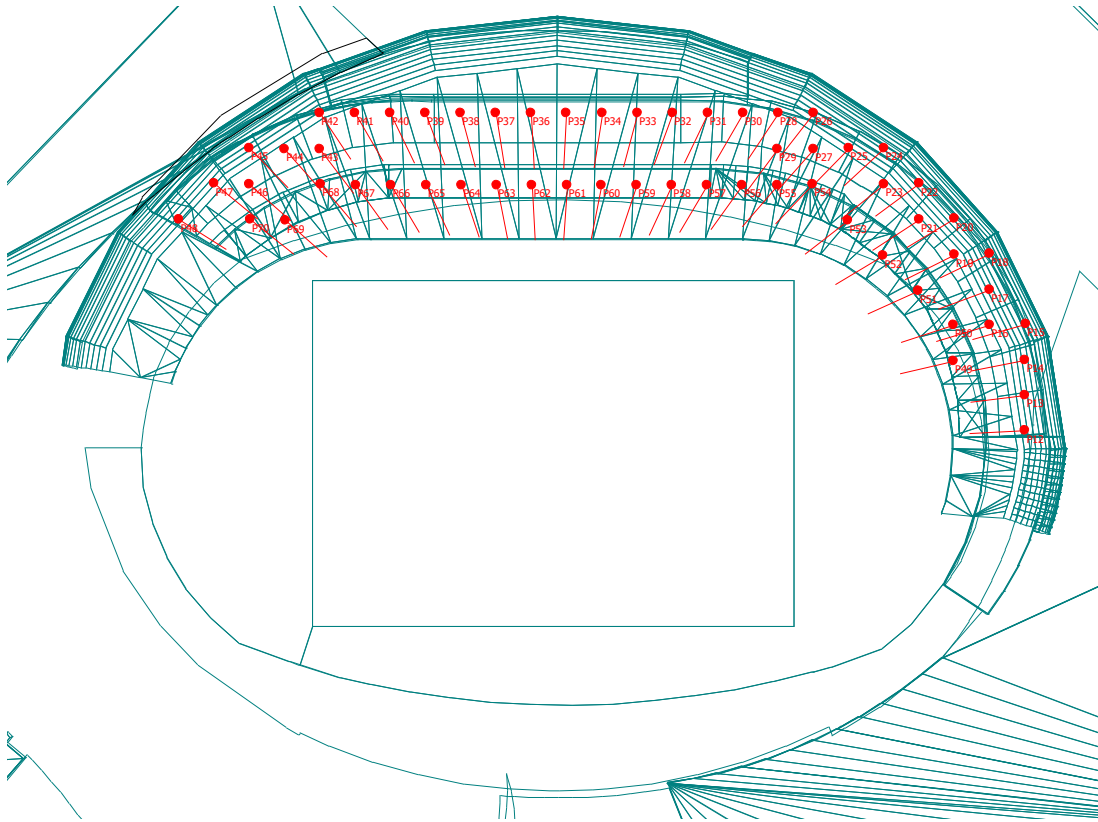
**Figure 3** Frame view of noise model for MPSC and its surrounding



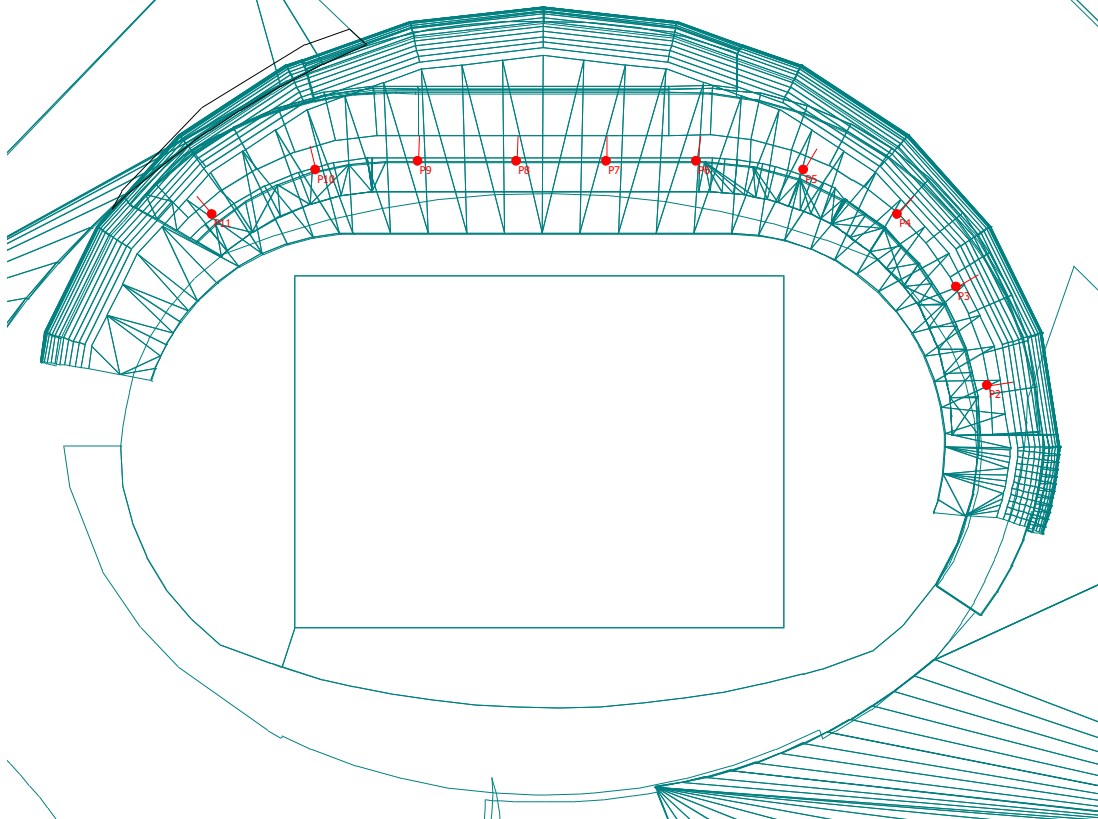
**Figure 4** Frame view of noise model for Public Sports Ground



**Figure 5** Positions and pointing directions of spectators  
(red points indicate the location of the sources that represent spectators)

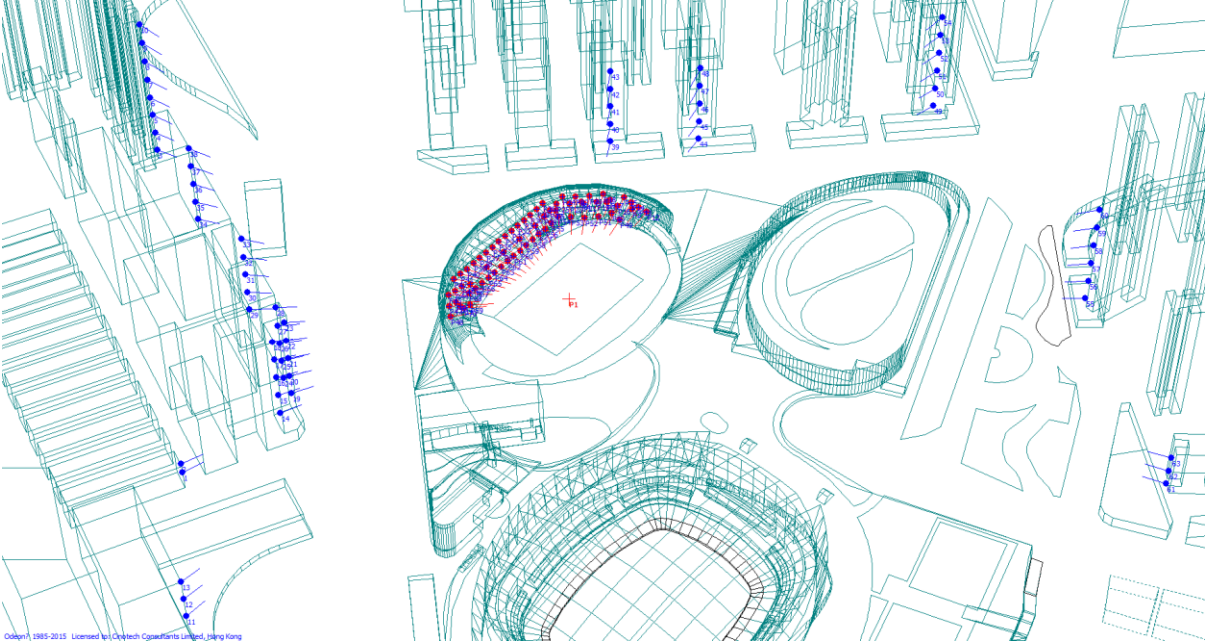


**Figure 6** Positions and pointing directions of public address system loudspeakers  
(red points indicate the location of the loudspeakers)



**Figure 7 Location and height of the receivers in the noise model**

(blue points indicate the location of the modelled receivers)



**Annex I Specifications of sound transmission loss adopted (in dB)**

<b>Frequency, Hz</b>	80	100	125	160	200	250	315
<b>Structure</b>	49.3	52.5	57.4	59.1	63.8	66.5	73.1
<b>Cover</b>	35.7	38.8	44.3	46.1	47.2	48	52.4

<b>Frequency, Hz</b>	400	500	630	800	1000	1250	1600
<b>Structure</b>	75.8	78.4	80.7	83.6	84.4	84.3	84.1
<b>Cover</b>	56.4	58	60.3	62.7	64.7	66.2	65.7

<b>Frequency, Hz</b>	2000	2500	3150	4000	5000	6300
<b>Structure</b>	86.6	86.4	86.9	82.9	82.7	80.5
<b>Cover</b>	67.2	69.2	73	76.2	80.1	81

