

Appendix A Target Emission Levels for I-PARK2

Air Pollutants	Target Emission Levels for I-PARK2 ^[1]		Hong Kong's Guidance Note on the Best Practicable Means for Incinerators (Municipal Waste Incineration), BPM 12/1 (2024) ^[1]		National Standard for Pollution Control on Municipal Solid Waste Incineration, GB 18485-2014 ^[1]		Shenzhen Standard, SZDB/Z 233-2017 ^[1]		EU Best available techniques (BAT) Reference Document for Waste Incineration ^[1]
	daily averaged	1-hour	daily averaged	1-hour	daily averaged	1-hour	daily averaged	1-hour	daily averaged (upper bound)
Particulates	5	10	5	10	20	30	8	10	5
Gaseous and vaporous organic substances, expressed as total organic carbon (TOC)	10	10	10	10	/	/	10	10	10
Carbon Monoxide (CO)	30	50	30	50	80	100	30	50	50
Nitrogen Oxides (NO _x), expressed as Nitrogen Dioxide	60 ^[2]	60 ^[2]	80	80	250	300	80	80	120
Sulphur Dioxide (SO ₂)	30	30	30	30	80	100	30	30	30
Hydrogen Chloride (HCl)	6	8	6	8	50	60	8	8	6
Hydrogen Fluoride (HF)	1	2	1	2	/	/	1	2	1
Ammonia (NH ₃)	10	15	10	/	/	/	/	/	10
Mercury (Hg) ^[3]	0.02		0.02		0.05		0.02		0.02
Total Cadmium & Thallium (Cd & Tl) ^[3]	0.02		0.02		0.1		0.04		0.02
Total Heavy Metals ^{[3][5]}	0.3		0.3		1		0.3		0.3
Dioxins & Furans (in ng I-TEQ/Nm ³) ^[4]	0.04		0.04		0.1		0.05		0.04

Notes:
 [1] Air pollutant concentrations (mg/Nm³ unless otherwise specified) are expressed at reference conditions of 0°C temperature, 101.325 kilopascals pressure, dry and 11% oxygen content conditions.
 [2] As compared with the concentration limit of 80 mg/Nm³ for NO_x emissions set out in BPM 12/1(24), more stringent target NO_x emission level of 60mg/Nm³ is adopted for I-PARK2 with a view to minimising potential air quality impact.
 [3] Average value over the sampling period of a minimum of 30mins and maximum of 8hrs.
 [4] Average value over the sampling period of a minimum of 6hrs and maximum of 8hrs.
 [5] Total heavy metals include As, Co, Cr, Cu, Mn, Ni, Pb, Sb and V. V is not included in GB 18485-2014.