Appendix 3C Comparison of Target Emission limit Levels with other Relevant Standards

Air Pollutants	Target Emission Levels for I-PARK2 (mg/Nm^3) [1]		Hong Kong's Emission Limits in BPM 12/1(24) for Municipal Waste Incineration (mg/Nm^3) [1]		National Standard on Municipal Waste Incineration, GB 18485-2014 (mg/Nm^3) [1]		Shenzhen City Standard SZDB/Z 233-2017 (mg/Nm^3) [1]		European Union Best Available Techniques Conclusions under Directive 2010/75/EU for Waste Incineration (2019) BAT-AELSs (mg/Nm^3) [1]
	daily averaged	1-hour	daily averaged	1-hour	daily averaged	1-hour	daily averaged	1-hour	daily averaged (upper bound)
Particulates [2]	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 [3]	50 [3]	80	100	30	50	50
Nitrogen Oxides (NO_x) as Nitrogen Dioxide (NO_2)	60 [4]	60 [4]	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) [5]	0.02		0.02		0.05		0.02		0.02
Total Cadmium & Thallium (Cd & Tl) [5]	0.02		0.02		0.1		0.04		0.02
Total Heavy Metal [5][7]	0.3		0.3		1		0.3		0.3
Dioxins & Furans (in ng I-TEQ/Nm^3) [6]	0.04		0.04		0.1		0.05		0.04

Notes:

[1] Emission limits are under at normal condition, i.e., 0^{o}C and 101.325 kPa, dry and 11% oxygen content conditions.

[2] Particulates are assumed to be RSP and FSP in the assessment as a conservative approach.

[3] The concentration limits of CO do not apply to the start-up and shut-down phases.

[4] As compared with the concentration limit of 80 mg/Nm^3 for NO_x emissions from municipal waste incinerators set out in BPM 12/1(24), more stringent target NOx emission level of 60mg/Nm^3 is adopted for the

[5] Average value over the sampling period of a minimum of 30mins and maximum of 8hrs.

[6] Average value over the sampling period of a minimum of 6hrs and maximum of 8hrs.

[7] Including Sb, As, Pb, Co, Cr, Cu, Mn, V and Ni for I-PARK2 in accordance with BPM 12/1(24).