

Regulatory items for each site data

*Items that are not subject to regulations or voluntary standards are marked "-".

Kokura No.1 Plant, TOTO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	200	135	50	—	—	57.0	0.20	0.04	0.023
Boiler	150	100	<12~51	—	—	—	0.05	0.04	<0.004
Cogeneration generator	950	900	584~667	—	—	—	0.08	0.07	0.003~0.022

<Water quality related > *Public sewage

Item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.0~9.0	5.8~8.6	7.7~7.8
Biochemical Oxygen Demand (BOD)	mg/l	600	300	0.9
Chemical Oxygen Demand (COD)	mg/l	600	300	2.5
Suspended Solids (SS)	mg/l	600	30	7.0
n-hexane extract (paraffinum liquidum)	mg/l	5.0	—	<1
Copper	mg/l	3.0	—	<0.01
Zinc	mg/l	2.0	—	0.11
Total chromium	mg/l	2.0	—	<0.05
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	1.0	—	—
Cadmium and its compounds	mg/l	0.03	—	<0.001
Cyanogen compound	mg/l	1.0	—	<0.1
Lead and its compound	mg/l	0.1	—	<0.01
Hexavalent chromium compound	mg/l	0.5	—	<0.04

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	65.0	—	47~56
afternoon	dB (A)	65.0	—	47~58
evening	dB (A)	65.0	—	44~53
night	dB (A)	55.0	—	42~51

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	65.0	—	20~52
night	dB	60.0	—	—

<Odor>

*Not applicable

Kokura No.2 Plant, TOTO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Metal melting furnace	—	—	—	—	—	—	0.1	0.05	<0.002
Boiler	150	95	22~25	—	—	—	0.05	0.03	—
Cogeneration generator	950	950	770	—	0.342	—	0.08	0.08	0.002

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.1~8.3	6.88~7.99
Biochemical Oxygen Demand (BOD)	mg/l	20	15	2.3
Chemical Oxygen Demand (COD)	mg/l	20	15	5.0
Suspended Solids (SS)	mg/l	60	50	Below minimum set
n-hexane extract (paraffinum liquidum)	mg/l	5	2.1	0.172
Copper	mg/l	3	0.5	0.06
Zinc	mg/l	5	2	0.090
Total chromium	mg/l	2	0.2	0.04
Total nitrogen	mg/l	120	60	1.81
Total phosphorous	mg/l	16	8	0.040
Cadmium and its compounds	mg/l	0.03	—	—
Cyanogen compound	mg/l	1	0.7	Below minimum set
Lead and its compound	mg/l	0.1	0.07	0.004
Hexavalent chromium compound	mg/l	0.5	Not detected	Below minimum set

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	65.0	63.0	—
afternoon	dB (A)	65.0	63.0	48~60
evening	dB (A)	65.0	63.0	44~55
night	dB (A)	55.0	63.0	45~47

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	65.0	60.0	26~58
night	dB	60.0	60.0	—

<Odor>

*Not applicable

Shiga Plant, TOTO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	180	135	30~39	8.75	6.57	<0.02~1.17	0.2	0.15	0.013~0.036
Boiler	180	135	22~78	—	—	—	0.2	0.15	<0.005~<0.016
Cogeneration generator	600	450	153	—	—	—	0.05	0.04	<0.005

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~8.5	6.3~8.2	7.6
Biochemical Oxygen Demand (BOD)	mg/l	20	15	2.7
Chemical Oxygen Demand (COD)	mg/l	20	15	3.9
Suspended Solids (SS)	mg/l	20	15	3.6
n-hexane extract (paraffinum liquidum)	mg/l	5.0	3.7	<0.5
Copper	mg/l	1.0	0.7	—
Zinc	mg/l	1.0	0.75	0.31
Total chromium	mg/l	0.1	0.07	—
Total nitrogen	mg/l	12	9	2.2
Total phosphorous	mg/l	1.2	0.9	<0.05
Cadmium and its compounds	mg/l	0.01	0.0075	—
Cyanogen compound	mg/l	0.1	0.08	—
Lead and its compound	mg/l	0.1	0.08	—
Hexavalent chromium compound	mg/l	0.05	0.038	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	65.0	63.0	44.1~49.2
afternoon	dB (A)	70.0	67.0	47.4~55.8
evening	dB (A)	70.0	67.0	59.8~66.6
night	dB (A)	60.0	57.0	48.3~52.9

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	70.0	65.0	<30
night	dB	65.0	60.0	<30

<Odor>

*Not applicable

Chigasaki Plant, TOTO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	180	135	Suspended	0.975	—	Suspended	0.25	0.18	Suspended

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.0~9.0	5.3~8.8	8.1
Biochemical Oxygen Demand (BOD)	mg/l	600	480	33.0
Chemical Oxygen Demand (COD)	mg/l	—	—	—
Suspended Solids (SS)	mg/l	600	480	2.6
n-hexane extract (paraffinum liquidum)	mg/l	30	21	1.7
Copper	mg/l	1.0	0.8	<0.01
Zinc	mg/l	1.0	0.8	0.060
Total chromium	mg/l	2.0	1.6	<0.04
Total nitrogen	mg/l	126	93.8	—
Total phosphorous	mg/l	—	—	0.13
Cadmium and its compounds	mg/l	0.03	0.024	<0.003
Cyanogen compound	mg/l	1.0	0.75	<0.01
Lead and its compound	mg/l	0.1	0.08	<0.005
Hexavalent chromium compound	mg/l	0.5	0.38	<0.04

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	62.5~75.0	—	43.8~55.4
afternoon	dB (A)	65.0~75.0	—	47.0~68.3
evening	dB (A)	62.5~75.0	—	43.1~65.4
night	dB (A)	55.0~65.0	—	35.4~44.8

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	65.0~70.0	—	<30
night	dB	60.0~65.0	—	<30

<Odor>

*Not applicable

Oita Plant, TOTO AQUATECHNO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Metal melting furnace	—	—	—	—	—	—	0.05	0.05	<0.002
Boiler	37.5	37.5	28.0~30.0	2.34	0.28	0.0002	0.05	0.05	—

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.0~8.4	6.7~7.6
Biochemical Oxygen Demand (BOD)	mg/l	15	13.5	0.3~5.6
Chemical Oxygen Demand (COD)	mg/l	15	10	1.0~9.0
Suspended Solids (SS)	mg/l	15	10	0.1~1.9
n-hexane extract (paraffinum liquidum)	mg/l	2.0	1.5	0.3
Copper	mg/l	3.0	2.0	<0.2~0.3
Zinc	mg/l	2.0	1.5	0.1~0.3
Total chromium	mg/l	2.0	0.3	<0.2
Total nitrogen	mg/l	10	9	1.3~5.4
Total phosphorous	mg/l	3.0	2.5	0.3~0.5
Cadmium and its compounds	mg/l	0.1	—	—
Cyanogen compound	mg/l	1.0	—	—
Lead and its compound	mg/l	0.1	0.08	<0.005~0.01
Hexavalent chromium compound	mg/l	Not detected	Not detected	Not detected

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	65.0	60.0	44.0~45.0
afternoon	dB (A)	70.0	60.0	47.0~57.0
evening	dB (A)	65.0	60.0	44.0~50.0
night	dB (A)	55.0	50.0	40.0~46.0

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	70.0	65.0	<45.0
night	dB	65.0	60.0	<45.0

<Odor>

*Not applicable

Aichi Plant, TOTO SANITECHNO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	180	108	67	0.68	0.27	0.02	0.25	0.10	0.009
Boiler	150	90	28	0.16	0.10	0.02	0.10	0.06	0.006

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.8~8.3	7.3~7.5
Biochemical Oxygen Demand (BOD)	mg/l	25	10	1.7
Chemical Oxygen Demand (COD)	mg/l	160	16.1	2.7~4.6
Suspended Solids (SS)	mg/l	150	60	2.0
n-hexane extract (paraffinum liquidum)	mg/l	2.0	1.2	0.9
Copper	mg/l	3.0	1.2	0.0
Zinc	mg/l	2.0	1.2	0.1
Total chromium	mg/l	2.0	0.80	0.0
Total nitrogen	mg/l	120	48	0.6~1.5
Total phosphorous	mg/l	16	6.4	0.01~0.04
Cadmium and its compounds	mg/l	0.03	0.012	0.0
Cyanogen compound	mg/l	1.0	0.4	0.1
Lead and its compound	mg/l	0.1	0.04	0.0
Hexavalent chromium compound	mg/l	0.5	0.20	0.0

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	55.0	55.0	47.0~49.8
afternoon	dB (A)	60.0	60.0	48.5~59.7
evening	dB (A)	55.0	55.0	35.2~48.2
night	dB (A)	50.0	50.0	35.8~48.2

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	65.0	52.0	31.0~36.0
night	dB	60.0	48.0	30.0~38.0

<Odor>

*Not applicable

HQ / Nakatsu Plant, TOTO SANITECHNO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	200	75	56~60	17.5	1	0.174~0.347	0.25	0.05	0.005~0.008
Boiler	150	75	22~30	17.5	4.5	—	0.1	0.01	<0.002
Cogeneration generator	950	800	756~770	17.5	1	0.091~0.165	0.1	0.05	0.009~0.012

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.5~8.2	7.33~7.63
Biochemical Oxygen Demand (BOD)	mg/l	160	16	1.2~7.1
Chemical Oxygen Demand (COD)	mg/l	160	10	1.95~2.74
Suspended Solids (SS)	mg/l	200	15	5.77~9.57
n-hexane extract (paraffinum liquidum)	mg/l	5.0	1.5	<1.0
Copper	mg/l	—	—	—
Zinc	mg/l	2.0	0.9	0.10~0.31
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	120	20	4.20~6.75
Total phosphorous	mg/l	16	1.0	0.03~0.05
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	70.0	63.0	44.0~61.0
afternoon	dB (A)	70.0	67.0	52.0~64.0
evening	dB (A)	70.0	63.0	50.0~63.0
night	dB (A)	65.0	57.0	49.0~54.0

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	70.0	63.0	35.0~49.0
night	dB	65.0	58.0	40.0~49.0

<Odor>

*Not applicable

HQ / Mobara Plant, TOTO High Living LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Boiler	150	100	18~40	—	—	—	0.1	0.06	0.005

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.0~8.0	7.0
Biochemical Oxygen Demand (BOD)	mg/l	20	18	1.0
Chemical Oxygen Demand (COD)	mg/l	20	19	2.6
Suspended Solids (SS)	mg/l	40	36	1.8
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	1.0	0.6	0.02
Zinc	mg/l	1.0	0.8	0.03
Total chromium	mg/l	0.5	0.3	0.02
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	0.03	0.006	0.001
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	0.1	0.07	0.01
Hexavalent chromium compound	mg/l	0.05	0.03	0.005

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	55.0	—	44.3~53.4
afternoon	dB (A)	60.0	—	46.8~58.0
evening	dB (A)	55.0	—	41.0~53.0
night	dB (A)	50.0	—	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	60.0	—	25.2~30.4
night	dB	55.0	—	—

<Odor>

*Not applicable

HQ / Sakura Plant, TOTO Bath Create LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Boiler	180	79	35~42	0.61	0.01	0.01	0.2	0.006	0.0009~0.001

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.5~8.5	7.1~8.2	7.7
Biochemical Oxygen Demand (BOD)	mg/l	5.0	2.9	1.0
Chemical Oxygen Demand (COD)	mg/l	5.0	3.3	1.0
Suspended Solids (SS)	mg/l	10.0	4.0	2.0
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	60.0	—	40.2~64.0
afternoon	dB (A)	65.0	—	39.0~57.2
evening	dB (A)	60.0	—	41.1~51.0
night	dB (A)	55.0	—	38.2~49.0

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	60.0	—	39.0~42.3

<Odor>

*Not applicable

HQ / Buzen Plant, TOTO Platechno LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Boiler	180	135	37	1.66	1.245	Not detected	0.15	0.1125	0.0030

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.1~8.2	6.6
Biochemical Oxygen Demand (BOD)	mg/l	60	45	1.3
Chemical Oxygen Demand (COD)	mg/l	10	10	7.7
Suspended Solids (SS)	mg/l	10	7.5	2.0
n-hexane extract (paraffinum liquidum)	mg/l	5.0	3.75	—
Copper	mg/l	3.0	2.25	—
Zinc	mg/l	2.0	1.5	Not detected
Total chromium	mg/l	2.0	1.5	—
Total nitrogen	mg/l	60	45	25.0
Total phosphorous	mg/l	8.0	6.0	3.50
Cadmium and its compounds	mg/l	0.03	0.0225	—
Cyanogen compound	mg/l	1.0	0.75	—
Lead and its compound	mg/l	0.1	0.075	—
Hexavalent chromium compound	mg/l	0.5	0.375	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	70.0	70.0	—
afternoon	dB (A)	70.0	70.0	48.0~65.0
evening	dB (A)	70.0	70.0	—
night	dB (A)	65.0	65.0	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	65.0	65.0	38.0~43.0
night	dB	60.0	60.0	—

<Odor>

Restricted substance	Unit	Regulatory value	Own standard	measured value
Styrene	ppm	0.4	<0.04	<0.04
Toluene	ppm	10	<1	<1
Xylene	ppm	1	<0.1	<0.1

HQ / Nakatsu Plant, TOTO Fine Ceramics LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	180	162	9~100	—	—	—	0.10	0.09	0.002
Boiler	150	135	52~60	—	—	—	0.10	0.09	0.002
Cogeneration generator	700	630	660~670	17.5	5.4	0.17~0.22	0.05	0.045	0.0030

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.5~8.2	7.1~7.5
Biochemical Oxygen Demand (BOD)	mg/l	160	98	0.9~1.5
Chemical Oxygen Demand (COD)	mg/l	160	6.5	1.1~1.2
Suspended Solids (SS)	mg/l	200	10	0.7~1.5
n-hexane extract (paraffinum liquidum)	mg/l	5.0	1.6	1.0
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	120	20	6.9~8.1
Total phosphorous	mg/l	16	1.0	0.01
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	65.0	65.0	46.0~57.0
afternoon	dB (A)	70.0	70.0	55.0~67.0
evening	dB (A)	65.0	65.0	46.0~59.0
night	dB (A)	60.0	60.0	43.0~55.0

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	65.0	65.0	28.0~37.0
night	dB	60.0	60.0	34.0~45.0

<Odor>

*Not applicable

Kanda Plant, TOTO Platechno LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	5.8~8.6	7.3~7.4
Biochemical Oxygen Demand (BOD)	mg/l	160	—	—
Chemical Oxygen Demand (COD)	mg/l	160	50	1.5~2.8
Suspended Solids (SS)	mg/l	200	70	<0.5~2.2
n-hexane extract (paraffinum liquidum)	mg/l	5.0	2	<0.5
Copper	mg/l	3.0	—	—
Zinc	mg/l	2.0	—	—
Total chromium	mg/l	2.0	—	—
Total nitrogen	mg/l	120	120	1.1~1.4
Total phosphorous	mg/l	16	16	<0.1
Cadmium and its compounds	mg/l	0.03	—	—
Cyanogen compound	mg/l	1.0	—	—
Lead and its compound	mg/l	0.1	—	—
Hexavalent chromium compound	mg/l	0.5	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	55.0	—	46.4~53.8
afternoon	dB (A)	55.0	—	44.8~54.5
evening	dB (A)	55.0	—	45.6~54.3
night	dB (A)	50.0	—	39.0~49.7

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

Place of measurement	Unit	Regulatory value	Own standard	measured value
North 1F Cleaning room discharge vent	ppm	35	—	16
North 1F Rubber role machine discharge vent	ppm	35	—	14
East 3F Printing Room discharge vent	ppm	33	—	14
Final discharge vent of plant	ppm	28	—	3

Katsuura Plant, TOTO Platechno LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Boiler	180	135	53	0.63	0.473	<0.001	0.15	0.113	<0.002

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	5.8~8.6	7.7
Biochemical Oxygen Demand (BOD)	mg/l	50	37.5	4.0
Chemical Oxygen Demand (COD)	mg/l	50	37.5	5.0
Suspended Solids (SS)	mg/l	110	82.5	1.0
n-hexane extract (paraffinum liquidum)	mg/l	5.0	3.8	<1.0
Copper	mg/l	3.0	2.3	<0.02
Zinc	mg/l	5.0	3.8	0.08
Total chromium	mg/l	2.0	1.5	<0.02
Total nitrogen	mg/l	120	90	1.5
Total phosphorous	mg/l	16	12	0.02
Cadmium and its compounds	mg/l	0.03	0.0075	<0.005
Cyanogen compound	mg/l	Not detected	Not detected	Not detected
Lead and its compound	mg/l	0.01	0.0075	<0.01
Hexavalent chromium compound	mg/l	0.05	0.0375	<0.05

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	55.0	—	44.1~54.8
afternoon	dB (A)	60.0	—	45.1~59.7
evening	dB (A)	55.0	—	37.8~44.8
night	dB (A)	50.0	—	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	60.0	—	29.7~35.8
night	dB	55.0	—	16.3~46.1

<Odor>

Restricted substance	Unit	Regulatory value	Own standard	measured value
Styrene	ppm	10	—	Not detected
Toluene	ppm	0.4	—	Not detected
Xylene	ppm	1	—	Not detected

HQ / Toki Plant, TOTO Materia LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Hardening furnace	180	—	31	1.49	—	0.02	0.2	—	0.20

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	—	7.6
Biochemical Oxygen Demand (BOD)	mg/l	160	—	10.0
Chemical Oxygen Demand (COD)	mg/l	160	—	13.0
Suspended Solids (SS)	mg/l	200	100.0	<1.0
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	3.0	—	<0.01
Zinc	mg/l	2.0	—	0.04
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	120	—	0.5
Total phosphorous	mg/l	16	—	0.015
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	0.1	—	<0.01
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	60.0	—	—
afternoon	dB (A)	65.0	—	56.0~58.0
evening	dB (A)	60.0	—	—
night	dB (A)	50.0	—	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	65.0	—	<30.0~45.0
night	dB	60.0	—	—

<Odor>

*Not applicable

Nara Plant, TOTO Platechno LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	—	—
Biochemical Oxygen Demand (BOD)	mg/l	160	—	—
Chemical Oxygen Demand (COD)	mg/l	160	—	—
Suspended Solids (SS)	mg/l	200	—	—
n-hexane extract (paraffinum liquidum)	mg/l	5.0	—	—
Copper	mg/l	3.0	—	—
Zinc	mg/l	2.0	—	—
Total chromium	mg/l	2.0	—	—
Total nitrogen	mg/l	120	—	—
Total phosphorous	mg/l	16	—	—
Cadmium and its compounds	mg/l	0.03	—	—
Cyanogen compound	mg/l	1.0	—	—
Lead and its compound	mg/l	0.1	—	—
Hexavalent chromium compound	mg/l	0.5	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	65.0	—	49.0~62.0
afternoon	dB (A)	70.0	—	52.0~59.0
evening	dB (A)	65.0	—	46.0~57.0
night	dB (A)	55.0	—	45.0~55.0

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	65.0	—	<30.0~42.0
night	dB	60.0	—	<30.0

<Odor>

Restricted substance	Unit	Regulatory value	Own standard	measured value
Styrene	ppm	0.8	—	<0.004

TOTO USA.,INC Lakewood Plant

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	25	20	5.08	100	1	0.0160	—	—	—

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.0~12.5	—	8.6
Biochemical Oxygen Demand (BOD)	mg/l	3,000	—	Below minimum set
Chemical Oxygen Demand (COD)	mg/l	—	—	1,180
Suspended Solids (SS)	mg/l	4,500	—	22
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	5.0	—	0.1
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	150	—	0.9
Total phosphorous	mg/l	13.4	—	0.9
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	90.0	—	65.0~72.8
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO USA.,INC Morrow Plant

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	25	20	11.4	100	1.0	0.036	—	—	—

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	5.0~12.5	—	8.43
Biochemical Oxygen Demand (BOD)	mg/l	3,000	—	Below minimum set
Chemical Oxygen Demand (COD)	mg/l	—	—	28.4
Suspended Solids (SS)	mg/l	4,500	—	8.0
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	4.96	—	0.0550
Total chromium	mg/l	11.03	—	—
Total nitrogen	mg/l	150	—	Below minimum set
Total phosphorous	mg/l	13.35	—	0.359
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	90.0	—	67.4~75.6
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

BEIJING TOTO CO.,LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	180	162	31~49	50	45	<3~6	0.03	0.0255	0.0014~0.0061
Boiler	80	72	35~49	10.0	9.0	<3	0.01	0.0042	0.0013~0.0023

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	6.5~8.5	7.62
Biochemical Oxygen Demand (BOD)	mg/l	40	36	4.6
Chemical Oxygen Demand (COD)	mg/l	110	99	22
Suspended Solids (SS)	mg/l	120	108	<5
n-hexane extract (paraffinum liquidum)	mg/l	10	9	<0.04
Copper	mg/l	1.0	1.0	<0.04
Zinc	mg/l	4.0	4.0	0.644
Total chromium	mg/l	0.1	0.09	<0.02
Total nitrogen	mg/l	40	36	4.56
Total phosphorous	mg/l	3.0	2.7	0.03
Cadmium and its compounds	mg/l	0.07	0.063	0.0003
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	0.3	0.27	<0.02
Hexavalent chromium compound	mg/l	0.1	0.09	0.01

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60.0	—	42.4~56.8
evening	dB (A)	—	—	—
night	dB (A)	50.0	—	42.7~49.4

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (Beijing) Co., Ltd.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	180	162	30~66	50	45	3.0	0.03	0.0255	0.0028~0.0098
Boiler	80	80	12~22	10	10	3.0	0.03	0.0255	0.0013~0.0026
Cogeneration generator	80	80	55~72	10.0	10.0	3.0	0.03	0.0255	0.0016~0.0019

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	6.5~8.5	7.41
Biochemical Oxygen Demand (BOD)	mg/l	40	36	6.6
Chemical Oxygen Demand (COD)	mg/l	110	99	26.0
Suspended Solids (SS)	mg/l	120	108	13.0
n-hexane extract (paraffinum liquidum)	mg/l	10	9	0.10
Copper	mg/l	1.0	0.9	Not detected
Zinc	mg/l	4.0	3.6	1.330
Total chromium	mg/l	0.1	0.09	Not detected
Total nitrogen	mg/l	40	36	1.65
Total phosphorous	mg/l	3.0	2.7	0.11
Cadmium and its compounds	mg/l	0.07	0.063	Not detected
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	0.3	0.27	Not detected
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60.0	—	50.0~54.0
evening	dB (A)	—	—	—
night	dB (A)	50.0	—	45.0~47.0

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

NANJING TOTO CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	—	—	—	—	—	—	0.20	0.18	0.0013~0.0017
Melting furnace	—	—	—	2,000	1,800	458	0.15	0.135	0.00907

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	6.0~9.0	7.42
Biochemical Oxygen Demand (BOD)	mg/l	—	—	—
Chemical Oxygen Demand (COD)	mg/l	500	450	159
Suspended Solids (SS)	mg/l	400	360	58
n-hexane extract (paraffinum liquidum)	mg/l	20	18	0.70
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	0.75
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60.0	—	53.1~56.0
evening	dB (A)	—	—	—
night	dB (A)	50.0	—	43.0~48.2

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO DALIAN CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	—	—	未検出	—	—	未検出	0.2	0.1	0.0053~0.0058
Boiler	400	320	32	—	—	0.04	0.05	0.04	0.007

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	6.5~8.5	7.50
Biochemical Oxygen Demand (BOD)	mg/l	—	—	—
Chemical Oxygen Demand (COD)	mg/l	—	—	—
Suspended Solids (SS)	mg/l	—	—	—
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	1.0	0.8	0.0
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	0.05	0.04	0.0
Cyanogen compound	mg/l	0.3	0.25	0.0
Lead and its compound	mg/l	0.2	0.16	0.0
Hexavalent chromium compound	mg/l	0.2	0.16	Not detected

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65.0	—	55.8~64.5
evening	dB (A)	—	—	—
night	dB (A)	55.0	—	42.5~44.5

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO EAST CHINA CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (mg/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	180	160	3~27	50	50	1.0	30.0	30.0	5.27~13.4

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	6.0~8.0	6.81
Biochemical Oxygen Demand (BOD)	mg/l	300	40	31.2
Chemical Oxygen Demand (COD)	mg/l	500	110	121
Suspended Solids (SS)	mg/l	400	110	24
n-hexane extract (paraffinum liquidum)	mg/l	20	8.0	2.4
Copper	mg/l	1.0	—	0.0
Zinc	mg/l	5.0	4.0	1.920
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	60	40	12
Total phosphorous	mg/l	8.0	3.0	0.97
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65.0	—	60.7~63.3
evening	dB (A)	—	—	—
night	dB (A)	55.0	—	50.3~53.2

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (GUANGZHOU) CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	mg/l	—	—	—
Chemical Oxygen Demand (COD)	mg/l	—	—	—
Suspended Solids (SS)	mg/l	—	—	—
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60.0	—	57.3~58.6
evening	dB (A)	—	—	—
night	dB (A)	50.0	—	46.3~48.5

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (SHANGHAI) CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	5.0~8.0	6.8
Biochemical Oxygen Demand (BOD)	mg/l	300	270	83.9
Chemical Oxygen Demand (COD)	mg/l	500	450	228
Suspended Solids (SS)	mg/l	400	360	240
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	8.0	7.2	2.0
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65.0	—	58.4~60.8
evening	dB (A)	—	—	—
night	dB (A)	55.0	—	54.4~54.8

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TAIWAN TOTO CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (mg/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	300	270	23~59	100	90	33~66	100	90	1~8

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	6.3~8.7	7.2
Biochemical Oxygen Demand (BOD)	mg/l	—	—	—
Chemical Oxygen Demand (COD)	mg/l	100	90	9.6
Suspended Solids (SS)	mg/l	50	45	4.0
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	0.03	—	—
Cyanogen compound	mg/l	1.0	—	—
Lead and its compound	mg/l	1.0	—	—
Hexavalent chromium compound	mg/l	0.5	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	67.0	—	53.2
afternoon	dB (A)			
evening	dB (A)			
night	dB (A)	52.0	—	45.9

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO MALAYSIA SDN.BHD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	6.0~8.0	7.0
Biochemical Oxygen Demand (BOD)	mg/l	60	54	19.0
Chemical Oxygen Demand (COD)	mg/l	240	216	56.1
Suspended Solids (SS)	mg/l	120	108	22.6
n-hexane extract (paraffinum liquidum)	mg/l	20	18	2.1
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	70.0	—	49.85~55.8
evening	dB (A)	—	—	—
night	dB (A)	60.0	—	48.85~51.13

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO VIETNAM CO.LTD

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (mg/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	850	700	14.9~21.6	500	400	<3.4	200	150	3.68~13.5

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	6.0~9.0	7.0
Biochemical Oxygen Demand (BOD)	mg/l	<240	<240	14.6
Chemical Oxygen Demand (COD)	mg/l	<350	<350	34.6
Suspended Solids (SS)	mg/l	<200	<200	12
n-hexane extract (paraffinum liquidum)	mg/l	4.5	4.5	0.7
Copper	mg/l	1.8	1.8	<0.001
Zinc	mg/l	2.7	2.7	0.018
Total chromium	mg/l	0.18	0.18	0.014
Total nitrogen	mg/l	15	15	4.6
Total phosphorous	mg/l	3.5	3.5	0.32
Cadmium and its compounds	mg/l	0.045	0.045	<0.0007
Cyanogen compound	mg/l	0.063	0.063	<0.004
Lead and its compound	mg/l	0.09	0.09	<0.0007
Hexavalent chromium compound	mg/l	0.045	0.045	<0.004

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	70.0	—	62.4~65.6
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	1.3	—	0.29~1.28
night	dB	—	—	—

<Odor>

*Not applicable

TOTO Germany GmbH

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	mg/l	—	—	—
Chemical Oxygen Demand (COD)	mg/l	—	—	—
Suspended Solids (SS)	mg/l	—	—	—
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO MEXICO, S.A. DE C.V.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	—	—	—	—	—	—	0.035	0.035	0.0218

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	mg/l	—	—	—
Chemical Oxygen Demand (COD)	mg/l	—	—	—
Suspended Solids (SS)	mg/l	—	—	—
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	68.0	—	—
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	65.0	—	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO INDIA INDUSTRIES PVT. LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Shuttle furnace	50	25	7	100	25	10	150	100	11
Tunnel furnace	50	25	7	100	25	8	150	100	11
Drying machine	50	25	6	100	25	8	150	100	10

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.5~8.5	6.5~8.0	7.36
Biochemical Oxygen Demand (BOD)	mg/l	30	20	13
Chemical Oxygen Demand (COD)	mg/l	100	60	50
Suspended Solids (SS)	mg/l	100	60	15
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	2.0	1.0	Not detected
Zinc	mg/l	5.0	3.0	1.26
Total chromium	mg/l	2.0	1.0	Not detected
Total nitrogen	mg/l	50.0	25.0	Not detected
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	2.0	1.0	Not detected
Cyanogen compound	mg/l	0.2	0.1	Not detected
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	0.1	Not detected	Not detected

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	75.0	—	51.0~67.4
afternoon	dB (A)	75.0	—	53.6~65.9
evening	dB (A)	75.0	—	50.4~67.5
night	dB (A)	75.0	—	50.9~70.4

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (THAILAND) CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	200.0	—	4.7~18.7	60.0	—	<1.3	400	—	3.1~4.6
Dust collector	—	—	—	—	—	—	400	—	2.6~5.6

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	mg/l	—	—	—
Chemical Oxygen Demand (COD)	mg/l	—	—	—
Suspended Solids (SS)	mg/l	—	—	—
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	90.0	—	—
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (FUJIAN) CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value	Regulatory value	Own standard	measured value
Firing furnace	180	—	47	50	—	2.0	0.030	—	0.008

<Water quality related>

item	Unit	Regulatory value	Own standard	measured value
PH (hydrogen-ion concentration)	—	6.0~9.0	—	7.68
Biochemical Oxygen Demand (BOD)	mg/l	40	—	3
Chemical Oxygen Demand (COD)	mg/l	110	—	11
Suspended Solids (SS)	mg/l	10	—	0.2
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	3.0	—	0.02
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65.0	—	52.0~56.0
evening	dB (A)	—	—	—
night	dB (A)	55.0	—	46.0~53.0

<Vibration>

	Unit	Regulatory value	Own standard	measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable