

Regulatory items for each site data (FY2020)

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

Kokura No.1 Plant, TOTO LTD.

Measuring date : February 2-3, 2021									
Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	200	135	30	21	—	0.03	0.2	0.04	0.004~0.028
Boiler	180	100	25~37	—	—	—	0.2	0.04	<0.004
Cogeneration generator	950	900	880	—	—	—	0.08	0.07	0.020

<Water quality related > *Public sewage Measuring date : July 29, 2020

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.0~9.0	5.8~8.6	8.0
Biochemical Oxygen Demand (BOD)	m g/l	600	300	32
Chemical Oxygen Demand (COD)	m g/l	600	300	3.2
Suspended Solids (SS)	m g/l	600	30	11
n-hexane extract (paraffinum liquidum)	m g/l	5	—	<0.5
Copper	m g/l	3	—	<0.1
Zinc	m g/l	2	—	0.10
Total chromium	m g/l	2	—	<0.1
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	1	—	<0.1
Cadmium and its compounds	m g/l	0.03	—	<0.003
Cyanogen compound	m g/l	1	—	<0.1
Lead and its compound	m g/l	0.1	—	<0.01
Hexavalent chromium compound	m g/l	0.5	—	<0.05

Shiga Plant, TOTO LTD.

Measuring date : February 4-17,2021									
Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180	135	26~37	8.76	6.57	0.02~1.34	0.2	0.15	0.009~0.019
Boiler	150	112	11~60	—	—	—	0.2	0.15	0.005~0.008
Cogeneration generator	600	450	187	—	—	—	0.05	0.04	<0.005

<Water quality related > Making date : April 21, 2021

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6.0~8.5	6.3~8.2	7.5
Biochemical Oxygen Demand (BOD)	m g/l	20	15	2.2
Chemical Oxygen Demand (COD)	m g/l	20	15	3.8
Suspended Solids (SS)	m g/l	20	15	4.8
n-hexane extract (paraffinum liquidum)	m g/l	5	3.7	<0.5
Copper	m g/l	1	0.7	<0.05
Zinc	m g/l	1	0.75	0.18
Total chromium	m g/l	0.1	0.07	<0.01
Total nitrogen	m g/l	12.0	9	0.75
Total phosphorous	m g/l	1.2	0.9	<0.05
Cadmium and its compounds	m g/l	0.03	0.023	<0.001
Cyanogen compound	m g/l	0.1	0.08	<0.01
Lead and its compound	m g/l	0.1	0.08	<0.01
Hexavalent chromium compound	m g/l	0.05	0.038	<0.01

<Noise> Measuring date : March 11,17, 2021

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	—	49~56
afternoon	dB (A)	65	—	48~57
evening	dB (A)	65	—	43~54
night	dB (A)	55	—	40~52

<Vibration> Measuring date : March 11, 2021

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	—	23~52
night	dB	60	—	—

<Odor>

*Not applicable

Kokura No.2 Plant, TOTO LTD.

Making date : June , 2021									
Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	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	60	17~31	1.75	—	—	0.05	0.03	—
Cogeneration generator	950	950	815~860	1.75	0.342	—	0.08	0.08	0.014~0.019

<Water quality related > Making date : April 8, 2021

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	—	7.09~7.90
Biochemical Oxygen Demand (BOD)	m g/l	20	15	1.02
Chemical Oxygen Demand (COD)	m g/l	20	15	2.61
Suspended Solids (SS)	m g/l	60	50	1.11
n-hexane extract (paraffinum liquidum)	m g/l	5	—	0.28
Copper	m g/l	3	—	0.02
Zinc	m g/l	5	—	0.05
Total chromium	m g/l	2	—	0.02
Total nitrogen	m g/l	120	60	0.667
Total phosphorous	m g/l	16	8	0.016
Cadmium and its compounds	m g/l	0.03	—	—
Cyanogen compound	m g/l	1	—	—
Lead and its compound	m g/l	0.1	—	0.0021
Hexavalent chromium compound	m g/l	0.5	—	Below minimum set amount

<Noise> Measuring date : November 10, 2020

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	—	—
afternoon	dB (A)	65	—	42~59
evening	dB (A)	65	—	43~61
night	dB (A)	55	—	43~52

<Vibration> Measuring date : November 10, 2020

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	—	20~57
night	dB	60	—	—

<Odor>

*Not applicable

Shiga No.2 Plant, TOTO LTD.

Measuring date : February 4-17, 2021									
Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Cold / hot water unit	260	195	59	17.5	13.20	<0.003	0.3	0.230	<0.011

<Water quality related > *Not applicable

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

<Noise> Measuring date : October 27, 2020

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	63	43~53
afternoon	dB (A)	70	67	46~62
evening	dB (A)	70	67	41~54
night	dB (A)	60	57	39~41

<Vibration> Measuring date : October 27, 2020

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	70	65	<30
night	dB	65	60	<30

<Odor>

*Not applicable

<Atmosphere related>

<Water quality relate *Not applicable Making date : December 2, 2020

Aichi Plant, TOTO SANITECHNO LTD.

<Atmosphere related>

<Water quality related > Making date : June, 2021

<Noise>

Measuring date : July 13, 2020

<Vibration> Measuring date : July 13, 2020

<Odor>
*Not applicable

<Atmosphere related>

Making date : March 18, 2021

<Water quality related > Making date : March 18, 2021

HQ / Nakatsu Plant, TOTO SANITECHNO LTD.

<Atmosphere related>

<Water quality related > Measuring date : March 3, 2021

<Noise>

Measuring date : February 22, 2021

<Vibration> Measuring date : June 12,15, 2020

<Odor>
*Not applicable

– 2 –

Toki Plant, TOTO WASHLET TECHNO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related >

Measuring date : September 18, 2020				
Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	—	7.4
Biochemical Oxygen Demand (BOD)	m g /l	160	—	22
Chemical Oxygen Demand (COD)	m g /l	160	—	39
Suspended Solids (SS)	m g /l	200	—	5
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	3	—	—
Zinc	m g /l	2	—	—
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	120.0	—	69
Total phosphorous	m g /l	16	—	6.3
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	0.1	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise>

Measuring date : February 9,10, 2021				
	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	60	—	38~50
afternoon	dB (A)	65	—	48~58
evening	dB (A)	60	—	31~49
night	dB (A)	50	—	30~50

<Vibration>

Measuring date : February 9,10, 2021				
	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	70	—	<30
night	dB	65	—	<30

<Odor>

*Not applicable

HQ / Sakura Plant, TOTO Bath Create LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Boiler	150	79	12~26	0.61	0.01	0.002	0.1	0.006	0.0009
Cold / hot water gener	150	41	34	—	—	—	0.1	0.006	0.0010

<Water quality related >

Measuring date : February 18, 2021				
Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6.5~8.5	7.0~8.2	8.0
Biochemical Oxygen Demand (BOD)	m g /l	5	3.3	1
Chemical Oxygen Demand (COD)	m g /l	5	3	1
Suspended Solids (SS)	m g /l	10	4	1
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	—	—	—
Zinc	m g /l	—	—	—
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	—	—	—
Total phosphorous	m g /l	—	—	—
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise>

Measuring date : November 5,6, 2020				
	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	60	—	41.1~53.5
afternoon	dB (A)	65	—	42.6~58.6
evening	dB (A)	60	—	39.7~53.2
night	dB (A)	55	—	33.7~46.9

<Vibration>

Measuring date : October 21, 2020				
	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	60	—	29.4~40.2
night	dB	—	—	—

<Odor>

*Not applicable

Ako Plant, TOTO Bath Create LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related >

*Not applicable				
Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	m g /l	—	—	—
Chemical Oxygen Demand (COD)	m g /l	—	—	—
Suspended Solids (SS)	m g /l	—	—	—
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	—	—	—
Zinc	m g /l	—	—	—
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	—	—	—
Total phosphorous	m g /l	—	—	—
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise>

Measuring date : October 22, 2020				
	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	70	—	—
afternoon	dB (A)	70	—	51.9~59.3
evening	dB (A)	70	—	—
night	dB (A)	70	—	—

<Vibration>

*Not applicable				
	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

HQ / Mobara Plant, TOTO High Living LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Boiler	150	100	26~34	—	—	—	0.1	0.06	0.005

<Water quality related >

Measuring date : January 22, 2021				
Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6~8	7.3
Biochemical Oxygen Demand (BOD)	m g /l	20	18	1.0
Chemical Oxygen Demand (COD)	m g /l	20	18	6.6
Suspended Solids (SS)	m g /l	40	36	1.8
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	1	0.6	0.02
Zinc	m g /l	1	0.8	0.02
Total chromium	m g /l	0.5	0.3	0.02
Total nitrogen	m g /l	—	—	—
Total phosphorous	m g /l	—	—	—
Cadmium and its compounds	m g /l	0.01	0.006	0.001
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	0.1	0.07	0.01
Hexavalent chromium compound	m g /l	0.05	0.03	0.005

<Noise>

Measuring date : November 9, 2020				
	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	55	—	37.2~52.5
afternoon	dB (A)	60	—	40.9~49.0
evening	dB (A)	55	—	42.5~49.1
night	dB (A)	50	—	—

<Vibration>

Measuring date : November 4, 2020				
	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	60	—	25~39
night	dB	55	—	—

<Odor>

*Not applicable

HQ / Nakatsu Plant, TOTO Fine Ceramics LTD.

<Atmosphere related>			Measuring date : March 5, 2021						
Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180	162	4~75	—	—	—	0.25	0.10	0.002
Boiler	150	69	34	—	—	—	0.1	0.05	0.002
Cogeneration generator	950	855	—	17.5	—	0.21~0.23	0.10	0.090	—

<Water quality related >

Measuring date : March, 2021 (BOD,Total nitrogen,Total phosphorous ; January)				
Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6.0~8.5	6.5~8.2	7.3
Biochemical Oxygen Demand (BOD)	m g /l	—	30	4.3
Chemical Oxygen Demand (COD)	m g /l	8	6.5	3.1
Suspended Solids (SS)	m g /l	13	10	3.6
n-hexane extract (paraffinum liquidum)	m g /l	—	1.6	1.0
Copper	m g /l	—	—	—
Zinc	m g /l	—	—	—
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	—	17	7.8
Total phosphorous	m g /l	—	2	0.06
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

Katsuura Plant, TOTO Platechno LTD.

<Atmosphere related>			Measuring date : August 8, 2020						
Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Boiler	180	135	56	0.63	0.4725	<0.00078	0.15	0.1125	0.0040

<Water quality related >

Measuring date : March 11, 2021				
Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	5.8~8.6	7.8
Biochemical Oxygen Demand (BOD)	m g /l	50	37.5	23
Chemical Oxygen Demand (COD)	m g /l	50	37.5	17
Suspended Solids (SS)	m g /l	110	82.5	7
n-hexane extract (paraffinum liquidum)	m g /l	5	3.8	<1
Copper	m g /l	3	2.3	<0.02
Zinc	m g /l	5	3.8	<0.05
Total chromium	m g /l	2	1.5	<0.02
Total nitrogen	m g /l	120	90	1.9
Total phosphorous	m g /l	16	12	<0.02
Cadmium and its compounds	m g /l	0.03	0.0075	<0.005
Cyanogen compound	m g /l	Not detected	Not detected	Not detected
Lead and its compound	m g /l	0.01	0.0075	<0.01
Hexavalent chromium compound	m g /l	0.05	0.0375	<0.05

<Noise>

Measuring date:November12, 2020				
	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	65	51~56
afternoon	dB (A)	70	70	49~64
evening	dB (A)	65	65	47~53
night	dB (A)	60	60	49~55

<Vibration>

Measuring date:November12, 2020				
	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	65	24~37
night	dB	60	60	17~25

<Odor>

*Not applicable

HQ / Buzen Plant, TOTO Platechno LTD.

<Atmosphere related>			Measuring date : March 16, 2021						
Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Boiler	180	135	36~50	17.5	13.125	<0.0085	0.15	0.1125	<0.003

ND=Below minimum set amount

<Water quality related >

*Not applicable

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.1~8.2	—
Biochemical Oxygen Demand (BOD)	m g /l	60	45	—
Chemical Oxygen Demand (COD)	m g /l	10	10	—
Suspended Solids (SS)	m g /l	10	7.5	—
n-hexane extract (paraffinum liquidum)	m g /l	5	4	—
Copper	m g /l	3	2.3	—
Zinc	m g /l	2	1.5	—
Total chromium	m g /l	2	1.5	—
Total nitrogen	m g /l	60	45	—
Total phosphorous	m g /l	8	6	—
Cadmium and its compounds	m g /l	0.03	0.0	—
Cyanogen compound	m g /l	1	0.8	—
Lead and its compound	m g /l	0.1	0.1	—
Hexavalent chromium compound	m g /l	0.5	0.4	—

<Noise>

Measuring date : June 9, 2020				
	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	70	70	—
afternoon	dB (A)	70	70	47~67
evening	dB (A)	70	70	—
night	dB (A)	65	65	—

<Vibration>

Measuring date : June 9, 2020				
	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	65	32~42
night	dB	60	60	—

<Odor>

Measuring date : June 9, 2020				
Regulated substances	Unit	Regulatory value	Own standard	Measured value
Styrene	ppm	0.4	—	<0.04
Toluene	ppm	10	—	<1
Xylene	ppm	1	—	<0.1
Methanethiol	ppm	0.002	—	—
Hydrogen sulfide	ppm	0.02	—	—
Methyl dioxide	ppm	0.009	—	—

Kanda Plant, TOTO Platechno LTD.

<Atmosphere related>									
Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related >

Measuring date : April, 2021				
Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	5.8~8.6	7.7~7.9
Biochemical Oxygen Demand (BOD)	m g /l	160	—	—
Chemical Oxygen Demand (COD)	m g /l	160	50	1.5~3.4
Suspended Solids (SS)	m g /l	200	70	0.6
n-hexane extract (paraffinum liquidum)	m g /l	5	2	<0.5
Copper	m g /l	3	—	—
Zinc	m g /l	2	—	—
Total chromium	m g /l	2	—	—
Total nitrogen	m g /l	120	120	0.8~2.1
Total phosphorous	m g /l	16	16	<0.1
Cadmium and its compounds	m g /l	0.03	—	—
Cyanogen compound	m g /l	1	—	—
Lead and its compound	m g /l	0.1	—	—
Hexavalent chromium compound	m g /l	0.5	—	—

<Noise>

Measuring date : January, 2021				
	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	55	—	52~55
afternoon	dB (A)	55	—	47~55
evening	dB (A)	55	—	53~55
night	dB (A)	50	—	48~50

<Vibration> *Not applicable

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

<Odor>

Measuring date : February, 2021				
Regulated substances	Unit	Regulatory value	Own standard	Measured value
North 1F Cleaning room	ppm	35	—	—
North 1F Rubber role machine	ppm	35	—	25
East 3F Printing Room	ppm	33	—	19
Final discharge vent of plant	ppm	28	—	4

Nara Plant, TOTO Platechno LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related > *Not applicable

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

TOTO USA.,INC Morrow Plant

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	25	20	10	100	1.0	0.032	—	—	—

<Water quality related > ND=Below minimum set amount

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5 ~ 12.5	—	9.6
Biochemical Oxygen Demand (BOD)	m g /l	3,112	—	BRL
Chemical Oxygen Demand (COD)	m g /l	250.0	—	23
Suspended Solids (SS)	m g /l	5,644	—	7
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	—	—	—
Zinc	m g /l	5.36	—	0.047
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	228	—	BRL
Total phosphorous	m g /l	38.6	—	1.360
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise> Measuring date : October 27, 2020

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	—	44~57
afternoon	dB (A)	70	—	52~57
evening	dB (A)	65	—	47~58
night	dB (A)	55	—	44~53

<Vibration> Measuring date : October 27, 2020

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	—	30~42
night	dB	60	—	30~36

<Odor> Measuring date : October 27, 2020

Regulated substances	Unit	Regulatory value	Own standard	Measured value
Styrene	ppm	0.8	—	<0.08

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	90	—	55~69
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

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

<Odor>

*Not applicable

HQ / Toki Plant, TOTO Materia LTD.

<Atmosphere related> Making date : February 25, 2021

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Hardening furnace	180	—	4.1	6.33	—	0.04	0.2	—	0.03
Continuous firing furnace	180	—	4.3	1.37	—	0.05	0.2	—	0.02

<Water quality related > Making date : February 9, 2021

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	—	7.3
Biochemical Oxygen Demand (BOD)	m g /l	160	—	15.0
Chemical Oxygen Demand (COD)	m g /l	160	—	13.0
Suspended Solids (SS)	m g /l	200	—	1.0
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	3	—	<0.01
Zinc	m g /l	2	—	0.49
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	120	—	1.20
Total phosphorous	m g /l	16	—	0.010
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	0.1	—	<0.01
Hexavalent chromium compound	m g /l	—	—	—

TOTO USA.,INC Lakewood Plant

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	25	20	5.45~5.49	100	1	0.02	—	—	—

<Water quality related > ND=Below minimum set amount

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5 ~ 12.5	—	7.3
Biochemical Oxygen Demand (BOD)	m g /l	3,112	—	8
Chemical Oxygen Demand (COD)	m g /l	—	—	52.6
Suspended Solids (SS)	m g /l	5,644	—	—
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	3.104	—	—
Zinc	m g /l	4.473	—	BRL
Total chromium	m g /l	2.25	—	—
Total nitrogen	m g /l	228	—	1
Total phosphorous	m g /l	10	—	0.140
Cadmium and its compounds	m g /l	0.335	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	0.653	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise> Making date : December 15, 2020

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	60	—	—
afternoon	dB (A)	65	—	53~61
evening	dB (A)	60	—	—
night	dB (A)	50	—	—

<Vibration> Making date : December 15, 2020

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	—	30~32
night	dB	60	—	—

<Odor>

*Not applicable

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	90	—	55~69
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

	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 (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	—	—	—	—	—	—	148.4~1084.1	—	0.07~0.9

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5~10	—	7.1
Biochemical Oxygen Demand (BOD)	m g/l	—	—	<4
Chemical Oxygen Demand (COD)	m g/l	—	—	<30
Suspended Solids (SS)	ml/l	1.0	—	0.01
n-hexane extract (paraffinum liquidum)	m g/l	15	—	10.0
Copper	m g/l	4	—	0.04
Zinc	m g/l	10	—	0.38
Total chromium	m g/l	0.5	—	0.42
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	5.09
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

TOTO DALIAN CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	—	—	<3	1,430	1,140	<3	150	120	3.6~4.2
Boiler	400	320	55	100	80	<3	30	24	3.6

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6.5 ~ 8.5	7.2
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	—	—	—
Suspended Solids (SS)	m g/l	—	—	—
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	0.5	0.4	<0.05
Zinc	m g/l	1.5	1.2	0.12
Total chromium	m g/l	1	0.8	0.032
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	0.05	0.04	<0.05
Cyanogen compound	m g/l	0.3	0.24	<0.001
Lead and its compound	m g/l	0.2	0.16	<0.01
Hexavalent chromium compound	m g/l	0.2	0.16	<0.004

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	68	—	67.00
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	65	—	68.6

<Vibration> *Not applicable

	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 (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	100	90	3~34	20	18	<3	10	9	1.7~5.5
Boiler	80	72	13~21	10	9	<3	5	4.5	1~1.6
Cogeneration generator	80	72	20~45	10	9	<3	5	4.5	1~1.3

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6.5 ~ 8.5	7.0
Biochemical Oxygen Demand (BOD)	m g/l	40	36	2.8
Chemical Oxygen Demand (COD)	m g/l	110	99	18.0
Suspended Solids (SS)	m g/l	120	108	6.0
n-hexane extract (paraffinum liquidum)	m g/l	10	9	0.89
Copper	m g/l	1	0.9	0.01
Zinc	m g/l	4	3.6	—
Total chromium	m g/l	0.1	0.09	0.006
Total nitrogen	m g/l	40	36	4.13
Total phosphorous	m g/l	3	2.7	0.02
Cadmium and its compounds	m g/l	0.07	0.063	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	0.3	0.27	—
Hexavalent chromium compound	m g/l	—	—	—

NANJING TOTO CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	—	—	—	—	—	—	200	180	0.004

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6 ~ 9	7.5
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	500	300	114
Suspended Solids (SS)	m g/l	400	360	45
n-hexane extract (paraffinum liquidum)	m g/l	20	18	2.4
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	-	-	0.86
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60	—	52.7~56.4
evening	dB (A)	—	—	—
night	dB (A)	50	—	45.4~47.9

<Vibration> *Not applicable

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

<Odor>

*Not applicable

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60	—	55.2~57.8
evening	dB (A)	—	—	—
night	dB (A)	50	—	46.5~48.7

<Vibration> *Not applicable

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

<Odor>

Regulated substances	Unit	Regulatory value	Own standard	Measured value
Non-methane	ppm	4	—	0.5 ~ 0.8

TOTO EAST CHINA CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180	160	12~106	50	50	<3~7	30	30	<1~29.2
Boiler	150	150	4~35	20	20	<3~6	20	20	<1~4.2

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6 ~ 8	6.3~7.9
Biochemical Oxygen Demand (BOD)	m g /l	40	32	2~26.2
Chemical Oxygen Demand (COD)	m g /l	110	88	13~99
Suspended Solids (SS)	m g /l	120	96	5~10
n-hexane extract (paraffinum liquidum)	m g /l	10	8	—
Copper	m g /l	10	8	0.001~0.01
Zinc	m g /l	4	3	0.04~0.19
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	40	32	2.21~3.14
Total phosphorous	m g /l	3	0	0.02~0.10
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65	—	56~62.5
evening	dB (A)	—	—	—
night	dB (A)	55	—	50~54.8

<Vibration> *Not applicable

	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 (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180	—	35.8~61.5	50	—	<3	30	—	<1~13.7
Boiler	100	85	29~90	20	20	<3	20	20	<1

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	—	7.5
Biochemical Oxygen Demand (BOD)	m g /l	10	—	1
Chemical Oxygen Demand (COD)	m g /l	50	—	19
Suspended Solids (SS)	m g /l	50	—	8
n-hexane extract (paraffinum liquidum)	m g /l	3	—	<0.06
Copper	m g /l	0.1	—	<0.04
Zinc	m g /l	1	—	0.3
Total chromium	m g /l	1	—	<0.03
Total nitrogen	m g /l	15	—	5.02
Total phosphorous	m g /l	1	—	0.02
Cadmium and its compounds	m g /l	≤0.07	≤0.06	0.00015
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65	60.0	56.5~61
evening	dB (A)	—	—	—
night	dB (A)	55	53.0	49.3~51

<Vibration> *Not applicable

	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 (m³N/h)			Dust (g/m³N)		
	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)	m g /l	—	—	—
Chemical Oxygen Demand (COD)	m g /l	—	—	—
Suspended Solids (SS)	m g /l	—	—	—
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	—	—	—
Zinc	m g /l	—	—	—
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	—	—	—
Total phosphorous	m g /l	—	—	—
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60	—	53~58
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

	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 (m³N/h)			Dust (g/m³N)		
	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)	—	6.5~9.5	6.5~8.0	7.3
Biochemical Oxygen Demand (BOD)	m g /l	300	270	46
Chemical Oxygen Demand (COD)	m g /l	500.0	500.0	145.0
Suspended Solids (SS)	m g /l	400	360	44
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	—	—	—
Zinc	m g /l	—	—	—
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	—	—	—
Total phosphorous	m g /l	8	7.2	2.8
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65	—	52.6~63.2
evening	dB (A)	—	—	—
night	dB (A)	55	—	49.1~53.5

<Vibration> *Not applicable

	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 (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	30	30	5~17	20	20	2~9	50	50	4~11

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6 ~ 9	6.6
Biochemical Oxygen Demand (BOD)	m g /l	—	—	—
Chemical Oxygen Demand (COD)	m g /l	100	100	21.7
Suspended Solids (SS)	m g /l	50	50	28.4
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	—	—	—
Zinc	m g /l	—	—	—
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	—	—	—
Total phosphorous	m g /l	—	—	—
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	67	67	56.8
afternoon	dB (A)	-	-	-
evening	dB (A)	57	57	50.9
night	dB (A)	52	52	46.2

<Vibration> *Not applicable

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

<Odor>

Regulated substances	Unit	Regulatory value	Own standard	Measured value
smelly substances		10	—	Not detected

TOTO VIETNAM CO.LTD(HUNG YEN Branch)

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	850	850	11~16	500	500	3~9	200	200	31~46

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6 ~ 9	7.3
Biochemical Oxygen Demand (BOD)	m g /l	30	300	3.3
Chemical Oxygen Demand (COD)	m g /l	75	350	11.3
Suspended Solids (SS)	m g /l	50	200	7.92
n-hexane extract (paraffinum liquidum)	m g /l	5	4.05	<1
Copper	m g /l	2	1.62	0.0090
Zinc	m g /l	3	2.43	0.38
Total chromium	m g /l	0.2	0.162	0.010
Total nitrogen	m g /l	20	60	1.64
Total phosphorous	m g /l	4	15	0.280
Cadmium and its compounds	m g /l	0.05	0.0405	<0.003
Cyanogen compound	m g /l	0.07	0.0567	<0.01
Lead and its compound	m g /l	0.1	0.081	<0.0001
Hexavalent chromium compound	m g /l	0.05	0.0405	<0.005

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	70	70	—
afternoon	dB (A)	—	—	—
evening	dB (A)	70	70	—
night	dB (A)	—	—	—

<Vibration>

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

<Odor>

*Not applicable

TOTO VIETNAM CO.LTD(Dong Anh Branch)

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	850	850	16.1~28.6	500	500	3.4~12.3	200	200	14~19.7

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6~9	6~9	7.1
Biochemical Oxygen Demand (BOD)	m g /l	30	240	3
Chemical Oxygen Demand (COD)	m g /l	75	350	12.1
Suspended Solids (SS)	m g /l	50	200	8.8
n-hexane extract (paraffinum liquidum)	m g /l	5	4.5	1.000
Copper	m g /l	2	1.8	0.008
Zinc	m g /l	3	2.7	0.560
Total chromium	m g /l	0.2	0.18	0.010
Total nitrogen	m g /l	20	40	1.570
Total phosphorous	m g /l	4	5	0.302
Cadmium and its compounds	m g /l	0.05	0.045	0.003
Cyanogen compound	m g /l	0.07	0.063	0.010
Lead and its compound	m g /l	0.1	0.09	0.005
Hexavalent chromium compound	m g /l	0.05	0.045	0.010

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	70	70	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration>

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	70	70	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO MALAYSIA SDN.BHD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Power generation facility	—	—	—	—	—	—	—	—	—

<Water quality related > No result for year 2020. Analysis schedule (1 every 3 years)

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	5.4 ~ 8.1	—
Biochemical Oxygen Demand (BOD)	m g /l	40	36	—
Chemical Oxygen Demand (COD)	m g /l	200	180	—
Suspended Solids (SS)	m g /l	100	90	—
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	1	0.9	—
Zinc	m g /l	2	1.8	—
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	20	18	—
Total phosphorous	m g /l	—	—	—
Cadmium and its compounds	m g /l	0.02	0.018	—
Cyanogen compound	m g /l	0.1	0.09	—
Lead and its compound	m g /l	0.5	0.45	—
Hexavalent chromium compound	m g /l	0.05	0.045	—

<Noise> No result for year 2020.

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	70	63	—
afternoon	dB (A)	-	-	—
evening	dB (A)	-	-	—
night	dB (A)	60	54	—

<Vibration> *Not applicable

	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 (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	50	25	6.2~6.7	100	25	2.0~4.0	150	100	8.0~9.8
Drying machine	50	25	2	100	25	2	150	100	7.7~8.7
Power generation facilit	50	25	17.7~19.3	100	40	20.7~22.7	150	100	54.0~54.7

<Water quality related >

Item	Unit	Regulatory	Own	Measured
PH (hydrogen-ion concentration)	—	6.5 ~ 8.5	6.5 ~ 8.0	7.7
Biochemical Oxygen Demand (BOD)	m g /l	30	20	8
Chemical Oxygen Demand (COD)	m g /l	100	70	29
Suspended Solids (SS)	m g /l	100	60	12.75
n-hexane extract (paraffinum liquidum)	m g /l	—	—	—
Copper	m g /l	2	1	<0.2
Zinc	m g /l	5	3	1.63
Total chromium	m g /l	2	1	<0.2
Total nitrogen	m g /l	50	25	<5
Total phosphorous	m g /l	—	—	—
Cadmium and its compounds	m g /l	2	1	<0.2
Cyanogen compound	m g /l	0.2	0.1	<0.05
Lead and its compound	m g /l	<0.1	<0.1	<0.1
Hexavalent chromium compound	m g /l	1	<0.5	<0.02

TOTO Germany GmbH

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related *Not applicable

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

<Noise>

	Unit	Regulatory	Own	Measured
morning	dB (A)	75	70	55.8~64
afternoon	dB (A)	75	70	56.5~61.6
evening	dB (A)	75	70	52~67.3
night	dB (A)	75	70	51.8~58

<Vibration> *Not applicable

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

<Odor>

*Not applicable

<Noise> *Not applicable

	Unit	Regulatory	Own	Measured
morning	dB (A)	—	—	—
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

	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 (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	200	100	1.0~49	60	30	1	356	160	—
Drying machine	200	100	1.0	60	30	1.0~4.0	338	160	—

<Water quality related >

Item	Unit	Regulatory	Own	Measured
PH (hydrogen-ion concentration)	—	5.5 ~ 9	5.5 ~ 9	7.4
Biochemical Oxygen Demand (BOD)	m g /l	≤ 20	≤ 20	2.2
Chemical Oxygen Demand (COD)	m g /l	≤ 120	≤ 120	Not Ditected
Suspended Solids (SS)	m g /l	≤ 50	≤ 50	Not Ditected
n-hexane extract (paraffinum liquidum)	m g /l	≤ 5	≤ 5	Not Ditected
Copper	m g /l	—	—	—
Zinc	m g /l	—	—	—
Total chromium	m g /l	—	—	—
Total nitrogen	m g /l	—	—	—
Total phosphorous	m g /l	—	—	—
Cadmium and its compounds	m g /l	—	—	—
Cyanogen compound	m g /l	—	—	—
Lead and its compound	m g /l	—	—	—
Hexavalent chromium compound	m g /l	—	—	—

<Noise> *Not applicable

	Unit	Regulatory	Own	Measured
morning	dB (A)	—	—	—
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

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

<Odor>

*Not applicable