

Data on Atmosphere, Water Quality, Noise and Vibration

We measure regularly the atmosphere, the water, the noise, the vibration, and manage them to observe laws and regulations.

Name of plants and companies	Item	Type		Unit	Regulation value		Voluntary standard value	Average	MAX
					Low/Local regulation	Agreement with the city			
Headquarters and Nagoya Plant	Atmosphere	Soot and dust	Boiler (No.10)	mg/Nm ³	50	–	40	2	2
			Boiler (No.11)		50	–	40	2	2
			Boiler (No.12)		50	–	40	2	2
			Firing furnace (PR-2)		150	–	120	4.5	7
		NOx	Boiler (No.10)	ppm	150	–	120	36	36
			Boiler (No.11)		150	–	120	56	56
			Boiler (No.12)		150	–	120	46	46
			Firing furnace (PR-2)		180	–	144	60	65
	Drain (sewer)	pH		–	5.0~9.0	–	5.4~8.6	6.9	7.3
		SS		mg/l	600	–	480	24.1	170
		BOD		mg/l	600	–	480	39.1	320
		n-hexane extract		mg/l	30	–	24	1.7	21.0
		Cyanogen		mg/l	1	–	0.8	0.15	0.3
		Total chromium		mg/l	2	–	1.6	0.06	0.16
		Hexavalent chromium		mg/l	0.5	–	0.4	0.04	0.05
		Zinc		mg/l	2	–	1.6	0.43	1.50
		Lead		mg/l	0.1	–	0.08	<0.02	<0.02
		Nitrogen		mg/l	120	–	96	25.88	44
		Phosphor		mg/l	16	–	12.8	0.69	4.20
		Fluorine		mg/l	8	–	6.4	0.35	0.6
	Boron		mg/l	10	–	8	1.1	2.0	
	Noise	Morning	R spot	dB	70	–	68	57.9	57.9
			T spot	dB	65	–	63	60.4	60.4
		Daytime	R spot	dB	70	–	68	60.2	60.2
			T spot	dB	65	–	63	65.9	65.9
		Evening	R spot	dB	70	–	68	58.7	58.7
			T spot	dB	65	–	63	61.1	61.1
		Night	R spot	dB	65	–	64	57.6	57.6
			T spot	dB	55	–	54	53.2	53.2
	Vibration	Daytime	R spot	dB	70	–	65	42.0	42.0
			T spot					42.0	42.0
		Night	R spot	dB	65	–	60	43.0	43.0
T spot			40.0					40.0	

* : These values apply to the background noise level. The background noise level is the noise when machines, and so on, are not operating. It is affected by traffic noise, noise from adjacent plants, and so on.

Data on Atmosphere, Water Quality, Noise and Vibration

Name of plants and companies	Item	Type		Unit	Regulation value		Voluntary standard value	Average	MAX	
					Low/Local regulation	Agreement with the city				
Komaki Plant	Atmosphere	Soot and dust	Boiler (No.1-6)	mg/Nm ³	200	200	160	<2	<2	
			Firing furnace (No.9-10)	mg/Nm ³	200	200	160	4.0	8.0	
		NOx	Boiler (No.1-6)	ppm	250	—	200	28.0	28.0	
			Firing furnace (No.9-10)	ppm	200	—	160	62.0	64.0	
		SOx	Boiler (No.1-6)	Nm ³ /h	8.379	—	6.703	<2	<2	
			Firing furnace (No.9-10)	Nm ³ /h	8.379	—	6.703	<2	<2	
	Drain (public water area)	pH	East					7.4	7.6	
			West		6.0~8.0	6.0~8.0	6.2~7.8	7.2	7.3	
			North					No drainage	No drainage	
		SS	East						1.6	3.0
			West	mg/l	30	—	24		0.3	4.0
			North						No drainage	No drainage
		BOD	East						3.8	6.5
			West	mg/l	25	—	20		1.1	2.9
			North						No drainage	No drainage
		COD	East						4.2	6.3
			West	mg/l	—	—	—		3.5	6.0
			North						No drainage	No drainage
		COD(total)	Komaki Prant total	kg/day	160.22	—	—		10.9	28.8
		n-hexane extract	East						0.3	3.8
			West	mg/l	5.0	5.0	4.0		0.1	0.7
			North						No drainage	No drainage
		Cyanogen	East						<0.1	<0.1
			West	mg/l	0.5	0.5	0.4		<0.1	<0.1
			North						No drainage	No drainage
		Total chromium	East						0.0	0.1
			West	mg/l	2.0	1.0	0.8		<0.04	<0.04
			North						No drainage	No drainage
		Copper	East						0.0	0.1
			West	mg/l	1.0	1.0	0.8		0.1	0.1
			North						No drainage	No drainage
		Zinc	East						0.1	0.3
			West	mg/l	1.8	1.8	1.6		0.0	0.1
			North						No drainage	No drainage
		Lead	East						<0.02	<0.02
			West	mg/l	0.1	—	0.08		<0.02	<0.02
			North						No drainage	No drainage
		Nitrogen	East						8.4	15.0
			West	mg/l	120	—	60		4.3	7.4
			North						No drainage	No drainage
		Nitrogen(total)	Komaki Prant total	kg/day	119.21	—	—		14.6	31.9
		Phosphorus	East						0.4	0.7
			West	mg/l	16	—	8.0		0.6	1.1
			North						No drainage	No drainage
		Phosphorus(total)	Komaki Prant total	kg/day	11.901	—	—		1.1	4.0
		Nickel	East						0.2	0.4
			West	mg/l	—	—	—		<0.1	<0.1
			North						No drainage	No drainage
		Manganese	East						<0.1	<0.1
			West	mg/l	10	—	8		0.0	0.1
North								No drainage	No drainage	
Fluorine		East						0.5	0.8	
		West	mg/l	8	—	6.4		1.3	2.0	
		North						No drainage	No drainage	
Boron	East						0.3	2.0		
	West	mg/l	10	—	8		<1	<1		
	North						No drainage	No drainage		
Noise	Morning	Fifth spot	dB	65	—	63	43.1	43.1		
	Daytime	Fifth spot	dB	70	—	68	49.7	49.7		
	Evening	Fifth spot	dB	65	—	63	36.7	36.7		
	Night	Fifth spot	dB	60	—	58	37.6	37.6		
Vibration	Daytime	Fifth spot	dB	70	—	—	<45.0	<45.0		
	Night	Fifth spot	dB	65	—	—	<45.0	<45.0		

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					Low/Local regulation	Agreement with the city				
Miyanojo Plant	Atmosphere	Soot and dust	Absorption heater/chiller	mg/Nm ³	300	—	240	N/A	N/A	
			3T water boiler	mg/Nm ³	100	—	80	<0.007	<0.007	
		NOx	Absorption heater/chiller	ppm	180	—	144	N/A	N/A	
			3T water boiler	ppm	150	—	120	72.0	72.0	
	Drain (public water area)	pH			—	6.0~8.0	6.0~8.0	6.5~7.8	7.4	7.6
		SS			mg/l	35	35	28	7.5	15.0
		BOD			mg/l	20	20	16	3.8	12.0
		COD			mg/l	160	—	128	13.0	18.0
		n-hexane extract			mg/l	5	≤5	4	<2.5	<2.5
		Cyanogen			mg/l	1	—	0.8	<0.05	<0.05
		Hexavalent chromium			mg/l	0.5	—	0.4	<0.05	<0.05
		Copper			mg/l	3	—	2.4	<0.05	<0.05
		Zinc			mg/l	2	—	1.4	<0.05	0.1
		Lead			mg/l	0.1	—	0.08	<0.01	<0.01
		Fluorine			mg/l	8	—	6.4	<0.2	0.2
		Boron			mg/l	10	—	8	2.6	5.6
	Coli bacteria			counts/cm ³	3000	—	2400	0.0	0.0	
	Noise	Morning			dB	60	—	55	47.6	51.0
		Daytime			dB	65	—	60	51.0	52.4
		Evening			dB	60	—	55	48.7	51.2
		Night			dB	50	—	50	45.2	46.4
	Vibration	Daytime			dB	60	—	52	32.5	32.5
		Night			dB	55	—	48	30.0	30.0
	Ise Plant	Atmosphere	Soot and dust	Firing furnace	mg/Nm ³	250	—	100	<5	<5
					—	5.8~8.6	—	6.0~8.4	7.6	8.2
		Drain (public water area)	SS			mg/l	90	—	45	1.6
BOD					mg/l	25	—	20	1.1	2.0
COD					mg/l	25	—	20	4.0	7.0
COD(total)					kg/day	3.4	—	3.4	0.1	0.2
n-hexane extract					mg/l	30	—	15.0	<1	<1
Phenols					mg/l	1	—	0.5	<0.1	<0.1
Total chromium					mg/l	2	—	1	<0.04	<0.04
Copper					mg/l	1	—	0.5	<0.02	<0.02
Zinc					mg/l	2	—	1	0.0	0.1
Iron					mg/l	10	—	5	0.0	0.2
Lead					mg/l	0.1	—	0.05	<0.01	<0.01
Nitrogen					mg/l	120	—	60	6.7	13.0
Nitrogen(total)					kg/day	4.1	—	4.1	0.2	0.3
Phosphorus					mg/l	16	—	8	0.7	1.2
Phosphorus(tota)					kg/day	0.39	—	0.39	0.02	0.03
Manganese					mg/l	10	—	5	0.0	0.3
Coli bacteria				counts/cm ³	3000	—	1500	6.9	26.0	
Noise		Morning	East		dB	55	—	55	41.6	41.6
		Daytime	East		dB	60	—	58	48.6	48.6
		Evening	East		dB	55	—	55	48.9	48.9
		Night	East		dB	50	—	50	48.8	48.8
Vibration		Daytime (all directions)			dB	65	—	60	<50	<50
		Night (all directions)			dB	60	—	55	<50	<50

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Name of plants and companies	Item	Type	Unit	Regulation value		Voluntary standard value	Average	MAX	
				Low/Local regulation	Agreement with the city				
Takenami Plant	Drain (public water area)	pH	—	5.8~8.6	5.8~8.6	—	7.3	7.5	
		SS	mg/l	200	200	100	2.3	3.0	
		BOD	mg/l	160	160	130	21.5	55.0	
		COD	mg/l	160	160	80	7.5	14.0	
		n-hexane extract	mg/l	5	-	4	<0.5	<0.5	
		Nitrogen	mg/l	120	-	—	4.2	6.3	
		Phosphorus	mg/l	16	-	—	0.18	0.42	
	Coli bacteria	counts/cm ³	3000	-	2000	25.8	72.0		
	Noise	Morning	Fourth spot	dB	50	50	—	43.5	44.0
		Daytime	Fourth spot	dB	55	55	—	44.0	44.5
		Evening	Fourth spot	dB	50	50	—	43.3	43.5
		Night	Fourth spot	dB	45	45	—	43.3	43.5
	Vibration	Daytime	Fourth spot	dB	55	55	—	<45.0	<45.0
Night		Fourth spot	dB	50	50	—	<45.0	<45.0	
Atmosphere	Soot and dust	Firing furnace: YA-5,6	mg/Nm ³	250	—	250	<5	<5	
		Firing furnace: YA-7,8					<5	<5	
		Absorption heater/chiller: FGL					<5	<5	
		Absorption heater/chiller: FGDL					<5	<5	
	NOx	Firing furnace: YA-5,6	ppm	180	—	180	<10	<10	
		Firing furnace: YA-7,8					<10	<10	
	Absorption heater/chiller: FGL	150	150	150	34.0	34.0			
	Absorption heater/chiller: FGDL				37.5	40.0			
NTK Ceramic Co., Ltd. (Iijima Plant)	Drain (public water area)	pH	—	5.8~8.6	5.8~8.6	6.0~8.0	7.2	7.3	
		SS	mg/l	50	50	50	1.7	8.0	
		BOD	mg/l	30	30	25	1.1	2.4	
		COD	mg/l	30	30	30	3.0	6.5	
		n-hexane extract	mg/l	5	5	5	<1	<1	
		Cyanogen	mg/l	0.5	0.5	0.2	<0.01	<0.01	
		Copper	mg/l	2	2	2	0.03	0.05	
		Zinc	mg/l	3	3	3	<0.05	<0.05	
		Lead	mg/l	0.1	0.1	0.1	<0.05	<0.05	
		Fluorine	mg/l	15	15	15	0.7	0.8	
		Boron	mg/l	50	50	50	1.18	2.60	
		Phenols	mg/l	5	5	5	<0.02	<0.02	
		Ammonia	mg/l	500	500	500	9.2	12.0	
	Coli bacteria	counts/cm ³	3000	3000	3000	35.8	84.0		
	Noise	Morning	First spot	dB	65	65	65	47.0	47.0
		Daytime	First spot	dB	65	65	65	47.0	47.0
		Evening	First spot	dB	65	65	65	48.0	48.0
		Night	First spot	dB	55	55	55	44.0	44.0
	Atmosphere	Soot and dust	Firing furnace(NN-1)	mg/Nm ³	50	50	20	6.0	6.0
		SOx	Firing furnace(NN-1)	Nm ³ /h	—	0	—	0.0	—
Drain (public water area)	pH	Factory 1&2	—	5.8~8.6	5.8~8.6	6.2~8.6	7.5	8.1	
		Factory 3					7.4	8.1	
	SS	Factory 1&2	mg/l	50	50	35	4.7	17.0	
		Factory 3					3.6	10.0	
	BOD	Factory 1&2	mg/l	15	15	13	3.6	9.9	
		Factory 3					3.5	8.5	
	COD	Factory 1&2	mg/l	40	40	30	10.2	17.0	
		Factory 3					8.6	14.0	
	n-hexane extract	Factory 1&2	mg/l	5	5	4	<0.5	<0.5	
		Factory 3					<0.5	<0.5	
	Nitrogen	Factory 1&2	mg/l	10	10	—	4.7	8.7	
		Factory 3					6.2	8.6	
	Phosphorus	Factory 1&2	mg/l	3	3	2.5	0.05	0.14	
Factory 3		0.48					1.1		
Coli bacteria	Factory 1&2	counts/cm ³	3000	3000	1000	183.7	430.0		
	Factory 3					0.0	0.0		
Noise	Morning	Fourth spot	dB	60	60	58	45.5	47.0	
	Daytime	Fourth spot	dB	65	65	63	52.0	53.0	
	Evening	Fourth spot	dB	60	60	58	52.0	57.0	
	Night	Fourth spot	dB	50	50	50	46.0	48.0	
Vibration	Daytime	Fourth spot	dB	65	—	63	20.0	20.0	
	Night	Fourth spot	dB	60	—	58	19.0	19.0	
NTK Ceramic Co., Ltd. (Nakatsugawa Plant)	Atmosphere	Soot and dust	Firing furnace(NN-1)	mg/Nm ³	50	50	20	6.0	6.0
		SOx	Firing furnace(NN-1)	Nm ³ /h	—	0	—	0.0	—
	Drain (public water area)	pH	Factory 1&2	—	5.8~8.6	5.8~8.6	6.2~8.6	7.5	8.1
			Factory 3					7.4	8.1
		SS	Factory 1&2	mg/l	50	50	35	4.7	17.0
			Factory 3					3.6	10.0
		BOD	Factory 1&2	mg/l	15	15	13	3.6	9.9
			Factory 3					3.5	8.5
		COD	Factory 1&2	mg/l	40	40	30	10.2	17.0
			Factory 3					8.6	14.0
		n-hexane extract	Factory 1&2	mg/l	5	5	4	<0.5	<0.5
			Factory 3					<0.5	<0.5
		Nitrogen	Factory 1&2	mg/l	10	10	—	4.7	8.7
Factory 3	6.2		8.6						
Phosphorus	Factory 1&2	mg/l	3	3	2.5	0.05	0.14		
	Factory 3					0.48	1.1		
Coli bacteria	Factory 1&2	counts/cm ³	3000	3000	1000	183.7	430.0		
	Factory 3					0.0	0.0		
Noise	Morning	Fourth spot	dB	60	60	58	45.5	47.0	
	Daytime	Fourth spot	dB	65	65	63	52.0	53.0	
	Evening	Fourth spot	dB	60	60	58	52.0	57.0	
	Night	Fourth spot	dB	50	50	50	46.0	48.0	
Vibration	Daytime	Fourth spot	dB	65	—	63	20.0	20.0	
	Night	Fourth spot	dB	60	—	58	19.0	19.0	

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				Low/Local regulation	Agreement with the city				
NTK Ceramic Co., Ltd. (Kani Plant)	Atmosphere	Soot and dust	mg/Nm ³	100	-	90	9.0	9.0	
		NOx	ppm	150	-	135	35.0	35.0	
	Drain (sewer)	pH	-	-	5.8~8.6	-	5.9~8.5	7.2	7.2
		SS	mg/l	200	-	180	2.0	2.0	
		BOD	mg/l	160	-	144	9.0	9.0	
		COD	mg/l	160	-	30	6.6	6.6	
		n-hexane extract	mg/l	5	-	4.5	1.0	1.0	
	Noise	Morning	First spot	dB	50	-	50	47.7	47.7
		Daytime	First spot	dB	60	-	60	50.2	50.2
		Evening	First spot	dB	50	-	50	48.9	48.9
Night		First spot	dB	45	-	45	44.8	44.8	
Nansei Ceramic Co., Ltd.	Drain (public water area)	pH	-	-	-	5.8~8.6	7.1	7.2	
		SS	mg/l	-	-	90	0.3	1.0	
		BOD	mg/l	20	20	20	<1	1.0	
		COD	mg/l	-	-	40	<1	1.0	
		n-hexane extract	mg/l	-	-	1	<1	<1	
		Lead	mg/l	-	-	0.1	<0.01	<0.01	
		Nitrogen	mg/l	-	-	100	1.2	2.8	
		Phosphorus	mg/l	-	-	16	0.1	0.3	
	Coli bacteria	counts/cm ³	-	-	1000	<1	<1		
	Noise	Morning	North	dB	55	-	55	51.8	52.2
		Daytime	North	dB	60	-	60	58.9	59.3
		Evening	North	dB	55	-	55	54.0	54.7
		Night	North	dB	50	-	50	47.4	47.9
Kamioka Ceramic Co., Ltd.	Drain (public water area)	pH	①	-	5.8~8.6	-	6.2~8.2	7.7	7.8
			②	-	-	-	7.6	7.6	
			③	-	-	-	7.5	7.6	
		SS	①	mg/l	200	-	50	4.5	8.4
			②	-	-	-	9.2	16.0	
			③	-	-	-	5.1	5.6	
		BOD	①	mg/l	160	-	40	0.6	0.6
			②	-	-	-	11.3	16	
			③	-	-	-	5.9	1.8	
		COD	①	mg/l	160	-	40	1.6	2.4
			②	-	-	-	28.0	42.0	
			③	-	-	-	12.5	14.0	
	n-hexane extract	①	mg/l	5	-	2.5	<0.5	<0.5	
		②	-	-	-	<0.5	<0.5		
		③	-	-	-	<0.5	<0.5		
	Coli bacteria	①	mg/l	3000	-	300	<30	<30	
		②	-	-	-	<30	<30		
		③	-	-	-	<30	<30		
	Noise	Morning	Fourth spot	dB	60	-	60	37.0	37.0
Daytime		Fourth spot	dB	65	-	65	45.0	45.0	
Evening		Fourth spot	dB	60	-	60	40.0	40.0	
Night		Fourth spot	dB	50	-	50	40.0	40.0	
Nittoku Seisakusho Co., Ltd. (Head Office Plant)	Drain (sewer)	pH	① Office building	-	5.0以上	-	5.8~9.0	7.5	7.5
			② Head factory	-	-	-	7.4	7.4	
			③ West factory	-	-	-	7.5	7.5	
		SS	① Office building	mg/l	-	-	600	<1	<1
			② Head factory	-	-	-	3	3	
			③ West factory	-	-	-	18	18	
		BOD	① Office building	mg/l	-	-	600	<0.5	<0.5
			② Head factory	-	-	-	15	15	
			③ West factory	-	-	-	9.8	9.8	
	n-hexane extract	① Office building	mg/l	50	-	50	-	-	
		② Head factory	-	-	-	<0.5	<0.5		
		③ West factory	-	-	-	<0.5	<0.5		
	Noise	Morning	Second spot	dB	60	-	60	63	63
Daytime		Second spot	dB	65	-	65	63	63	
Evening		Second spot	dB	60	-	60	61	61	
Vibration	Daytime	Second spot	dB	65	-	65	<45	<45	
	Night	Second spot	dB	60	-	60	<45	<45	

* : These values apply to the background noise level. The background noise level is the noise when machines, and so on, are not operating. It is affected by traffic noise, noise from adjacent plants, and so on.

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Name of plants and companies	Item	Type		Unit	Regulation value		Voluntary standard value	Average	MAX	
					Low/Local regulation	Agreement with the city				
Nittoku Seisakusho Co., Ltd. (Oguchi Plant)	Drain (public water area)	pH	Oguchi ①	-	5.8~8.6	-	5.8~8.6	8.3	8.3	
			Oguchi ②					7.2	7.2	
		SS	Oguchi ①	mg/l	-	-	200	7.0	7.0	
			Oguchi ②					7.0	7.0	
		BOD	Oguchi ①	mg/l	-	-	160	0.9	0.9	
			Oguchi ②					1.0	1.0	
	n-hexane extract	Oguchi ①	mg/l	5	-	5	1.0	1.0		
		Oguchi ②					1.0	1.0		
	Noise	Morning	First spot	dB	55	55	55	55.0	55.0	
		Daytime	First spot	dB	60	60	60	59.0	59.0	
		Evening	First spot	dB	55	55	55	50.0	50.0	
		Night	First spot	dB	50	50	50	50.0	50.0	
	Vibration	Daytime	First spot	dB	65	60	60	53.0	53.0	
		Night	First spot	dB	60	55	55	44.0	44.0	
Nittoku Seisakusho Co., Ltd. (Satsuma Plant)	Drain (public water area)	pH		-	-	-	-	7.0	7.0	
		SS		mg/l	-	-	-	4.0	4.0	
		BOD		mg/l	-	-	-	3.0	3.0	
		n-hexane extract		mg/l	-	-	-	2.5	2.5	
		Coli bacteria		counts/cm ³	-	-	-	500.0	500.0	
	Noise	Morning	First spot	dB	50	-	50	65	65 *	
		Daytime	First spot	dB	60	-	50	65	65 *	
		Evening	First spot	dB	50	-	50	65	65 *	
		Night	First spot	dB	45	-	45	66	66 *	
	Vibration	Daytime	First spot	dB	65	-	60	47.0	47.0	
Night		First spot	dB	60	-	55	47.0	47.0		
Nichiwa Kiki Co., Ltd.	Drain (sewer)	pH		-	5.0~	-	6.0~8.0	6.9	7.1	
		n-hexane extract		mg/l	50	-	40	1.0	1.0	
	Noise	Daytime	Cooling tower north side	dB	65	-	63	61.2	61.2	
Tono Ceramic Co., Ltd.	Atmosphere	Soot and dust		mg/Nm ³	-	-	200	47.5	75.0	
		NOx		ppm	-	-	400	15.0	20.0	
	Drain (public water area)	pH		-	-	-	5.8~8.6	7.4	7.4	
		SS		mg/l	-	-	200	1.0	1.0	
		BOD		mg/l	-	-	160	1.8	1.8	
		n-hexane extract		mg/l	-	-	5	0.5	0.5	
	Noise	Morning		dB	50	-	50	44	45	
		Daytime		dB	60	-	60	55	58	
Evening			dB	50	-	50	45	47		
Night			dB	45	-	45	44	45		
Ceramic Sensor Co., Ltd.	Atmosphere	Soot and dust		mg/Nm ³	200	200	200	0.0	0.0	
		NOx		ppm	-	-	-	58.0	62.0	
	Drain (public water area)	pH		-	6.0~8.0	6.0~8.0	6.0~8.0	7.3	7.6	
		SS		mg/l	18	18	18	3.7	16.0	
		BOD		mg/l	18	18	18	3.1	14.0	
		COD		mg/l	18	18	18	7.7	14.0	
		n-hexane extract		mg/l	2	2	2	1.0	1.0	
		Nitrogen		mg/l	30	30	30	6.7	26.0	
		Phosphorus		mg/l	4	-	4	0.1	0.5	
		Fluorine		mg/l	8	-	8	2.5	5.9	
	Noise	Daytime		dB	70	70	70	56.4	60.8	
		Night		dB	60	60	60	55.3	58.4	
	Tokai Taima Kogu Co., Ltd.	Noise	Morning	east	dB	60	-	60	43.7	43.7
			Daytime	east	dB	65	-	65	45.2	45.2
Evening			east	dB	60	-	60	44.0	44.0	
Night			east	dB	50	-	50	40.8	40.8	
Vibration		Daytime	east	dB	65	-	65	48.0	48.0	
		Night	east	dB	60	-	60	48.0	48.0	

* : These values apply to the background noise level. The background noise level is the noise when machines, and so on, are not operating. It is affected by traffic noise, noise from adjacent plants, and so on.