1. Entire Company



2. Major Works

Below is presented the data for atmospheric emission and wastewater quality, including NO_x , SO_x and dust

Atmospheric Emission Data (April 2000 - March 2001)

Chiba	VVOIKS			
Item	Facility	Controlled value by law	Agreed value	Measured value
NOx	Melting furnace	200	63	<30
(ppm)	Boiler	150	82	46~67.3
SO _x (ppm)	*	58	58	3.2~24.9
Dust	Melting furnace	0.2	0.013	0.009~0.012
(g/Nm ³)	Boiler	0.25	0.010	0.0015~0.0019
			*Control by	immutable weight

Mie Works

Facility	Controlled value by law	Agreed value	Measured value
Melting furnace	180	-	26~59
Annealing furna	ce 180	-	9~35
Melting furnace	0.6	-	0.095
Melting furnace	0.3	-	0.02~0.23
Annealing furna	ce 0.2	-	<0.01
	Facility Melting furnace Annealing furnace Melting furnace Annealing furnace	FacilityControlled value by lawMelting furnace180Annealing furnace0.6Melting furnace0.3Annealing furnace0.2	FacilityControlled value by lawAgreed valueMelting furnace180-Annealing furnace180-Melting furnace0.6-Melting furnace0.3-Annealing furnace0.2-

Nikko Works (Kiyotaki District)

Item	Facility	Controlled value by law	Pref. tightened value	Measured value
NOx	Heating furnace	e 200	-	17~70
(ppm)	Melting furnace	200	-	75~170
	Boiler	230	-	45~140
SOx	Heating furnace	e 17.5	14.5	0.03~0.21
(K value)	Melting furnace	17.5	14.5	0.26~2.15
	Boiler	17.5	14.5	<0.10
Dust	Heating furnace	e 0.2	-	0.002~0.022
(g/Nm ³)	Melting furnace	0.2	-	0.001~0.003
	Boiler	0.25	-	0.001~0.006

from major production facilities for the former, and pH, COD, SS and oil mist (mineral oil) for the latter.

Fukui Works

i unui	TOINS			
Item	Facility	Controlled value by law	Pref. tightened value	Measured value
NOx	Melting furnace	180	120	3~86
(ppm)	Heating furnace	130	120	1~59
	Annealing furnad	ce 130	120	1~11
	Boiler	130	120	28~113
SOx	Melting furnace	17.5(K value)	160	5~41
(ppm)	Boiler	17.5(K value)	380	5or less
Dust	Melting furnace	0.2	0.2	0.005~0.172
(g/Nm ³)	Heating furnace	0.25	0.12	0.005~0.059
	Annealing furnad	ce 0.25	0.12	0.005~0.050
	Boiler	0.1	0.1	0.005~0.008

Nikko	Works (Sh	eet Plant)	Gothic figure means	averaged value
Item	Facility	Controlled value by law	Pref. tightened value	Measured value
NOx	Melting furnace	180	-	50 ~81
(ppm)	Heating furnace	200	-	18
	Annealing furna	ce 200	-	26 ~27
	Boiler	230	-	69 ~101
SOx	Melting furnace	17.5	14.5	0.29 ~0.35
(K value)	Heating furnace	17.5	14.5	0.06
	Annealing furna	ce 17.5	14.5	0.05 ~0.08
	Boiler	17.5	14.5	0.49 ~0.68
Dust	Melting furnace	0.3	-	0.03 ~0.04
(g/Nm ³)	Heating furnace	0.25	-	0.05
	Annealing furna	ce 0.25	-	0.03
	Boiler	0.25	-	0.05 ~0.08

* Only major production facilities are shown.

Wastewater Quality Data (April 2000 - March 2001)

Chiba Works

Item		Controlled value by law	Agreed value	Measured value
pН		5~9	5~9	7.6~8.5
COD	(mg/ ℓ)	25	15	3~13
SS	(mg/ 0)	50	20	1~6.8
Oil mist	(mg/ ℓ)	10	2	0.1~0.3

Mie W	lie Works Gothic figure means averaged va			ans averaged value
Item		Controlled value by law	Agreed value	Measured value
pН		5.8~8.6	5.8~8.6	7.38 ~7.67
COD	(mg/ @)	160	10	1.49 ~4.53
SS	(mg/ @)	200	25	1.14 ~1.91
Oil mist	(mg/ @)	5	5	0.14 ~0.16

Nikko Works (Kiyotaki District)

Item		Controlled value by law	Pref. tightened value	Measured value
pН		5.8~8.6	5.8~8.6	7.0~7.4
COD	(mg/ @)	160	25	0.8~2.7
SS	(mg/ ℓ)	200	50	1.1~9.5
Oil mist	(mg/ ℓ)	5	5	0.04~0.05

3. Environment-Related Accounting

Covered business bases: All Works excluding the Shinagawa Works

Covered period:	April 1, 2000 - March 31, 2001	Unit of amo	unt: million yen
Cost of Environm	ent Preservation		
	Category	Major contents	Amount of cos
(1) Cost of environmer impact caused by business generated	t preservation to suppress environmental the production or service activities of within the business area (In house cost)	Pollution prevention, global environment preservation, resource recycling, etc.	3,360
(2) Cost of environmer impact caused by business generate areas of business an	the production to suppress environmental the production or service activities of d within the upstream and downstream rea (Up- and down-stream cost)	Retrieval and recycling of containers, packaging, drums, etc.	456
(3) Cost of environ management activit	ment preservation associated with ies (Management cost)	Construction, maintenance and management of environment managing system, maintenance of environment preservation, measurement of environmental impact, etc.	452
(4) Cost of environment and development ad	nt preservation associated with research ctivities (Research and development cost)	Publication of information, greening, etc.	420
(5) Cost of environme activities (Social acti	ent preservation associated with social vity cost)	R&D of environment-friendly products, research in substitutes for toxic substances, R&D of environmental impact reduction in manufacturing processes, etc.	36
(6) Cost of environmer impact (Environmer	it preservation dealing with environmental tal impact cost)	Assessment for environmental impact, inquiries and measures for soil contamination and groundwater, etc.	21
Total			4,745

*The amount of cost excludes investment cost.

Investment and Research Costs	
Environment-related investment	3,788
(Entire investment cost	48,100)
(Entire research cost	15,300)

Fukui Works

Item		Controlled value by law	Pref. tightened value	Measured value
pН		5~9	5~9	6.87~8.48
COD	(mg/ 0)	600	A CO Note)	3~114
SS	(mg/ 0)	600	180 100,	5~120
Oil mist	(mg/ 0)	5	5	0.1~2.6
			Note: (CC	DD+0.4×SS) = 180

Nikko Works (Sheet Plant) Gothic figure means averaged value Item Controlled value by law Pref. tightened value Measured value pН 5.8~8.6 5.8~8.6 7.1~8.1 COD (mg/ 0) 160 25 **2.2**~3.0 SS 200 50 <0.1 (mg/ @) 5 Oil mist (mg/ ${\it Q}$) 5 <1

Economic Effects Associated with Measures	n Environment Preservation
Content	Amount
(1) Income gained by recycling	169
(2) Reduction in waste disposal costs through recycling	-28

Physical Effects Associated with Environment Preservation Measures		
Environmental impact	Quantity	Reduction (over previous year)
(1) Industrial waste (disposed of by landfills) (ton)	16,213	-901
(2) Emission of volatile chemical compounds (ton)	120	1
(3) CO ₂ (carbon ton)	172,088	2,434
(4) SO _X (ton)	71	3
(5) NO _X (ton)	641	86
(6) Dust (ton)	80	43