GHQ/SCAP Records (RG 331, National Archives and Records Service)

Description of contents

(1) Box no. 2892

(2) Folder title/number: (9)
Mitsubishi Kasei Kogyo

(3) Date: Mar. 1947

(4) Subject:

Classification	Type of record
9230	c, k

(5) Item description and comment:
Osaka

(6) Reproduction: (Yes) No

(7) Film no. Sheet no.

(Compiled by *National Diet Library*)

Nakatsu Ya

I (D) Bleaching Powder Plant (170 m²)
III (A) Repair Works (54 m²) (121 m²)
I (C) Synthetic Hydrochloric Plant
(22 m²) (47 m²)
I (B) Plant for Electrolysis of Material Salt (560 m²)
I (A) Sub station (110 m²)
(211 m²)
I (E)
II (C)
Canal

Nakatsu Yawa Canal

Bleaching Powder Plant (170 m²)

III (A) Repair Works (54 m²) (121 m²)

III (C) Pump

II

(C) Synthetic Hydrochloric Plant

(22 m²) (47 m²)

or Electrolysis of Material Salt

560 m²)

(211 m²)

II (D) Machine Room (143 m²)

II (A) DDT Plant No. 1 (438 m²)

(54 m²)

II (B) (140 m²)

DDT Plant No. 2 (330 m²)

(135 m²)

I (E) (515 m²) Liquid Chlorine (130 m²)

Pump

III (B) Boiler Room (165 m²)

Ware-house (154 m²)

II (C) Refrigerator Room (81 m²)

(140 m²) (58 m²)

Warehouse (168 m²)

(25 m²)

Ware-house (140 m²)

III (A) Repair Works (195 m²)

Laboratory No. 2 (198 m²)

Pump

I (E) Purest Caustic Soda Plant (160 m²)

(25 m²)

Wa-hou

Mess Hall (243 m²)

Bath Room (56 m²)

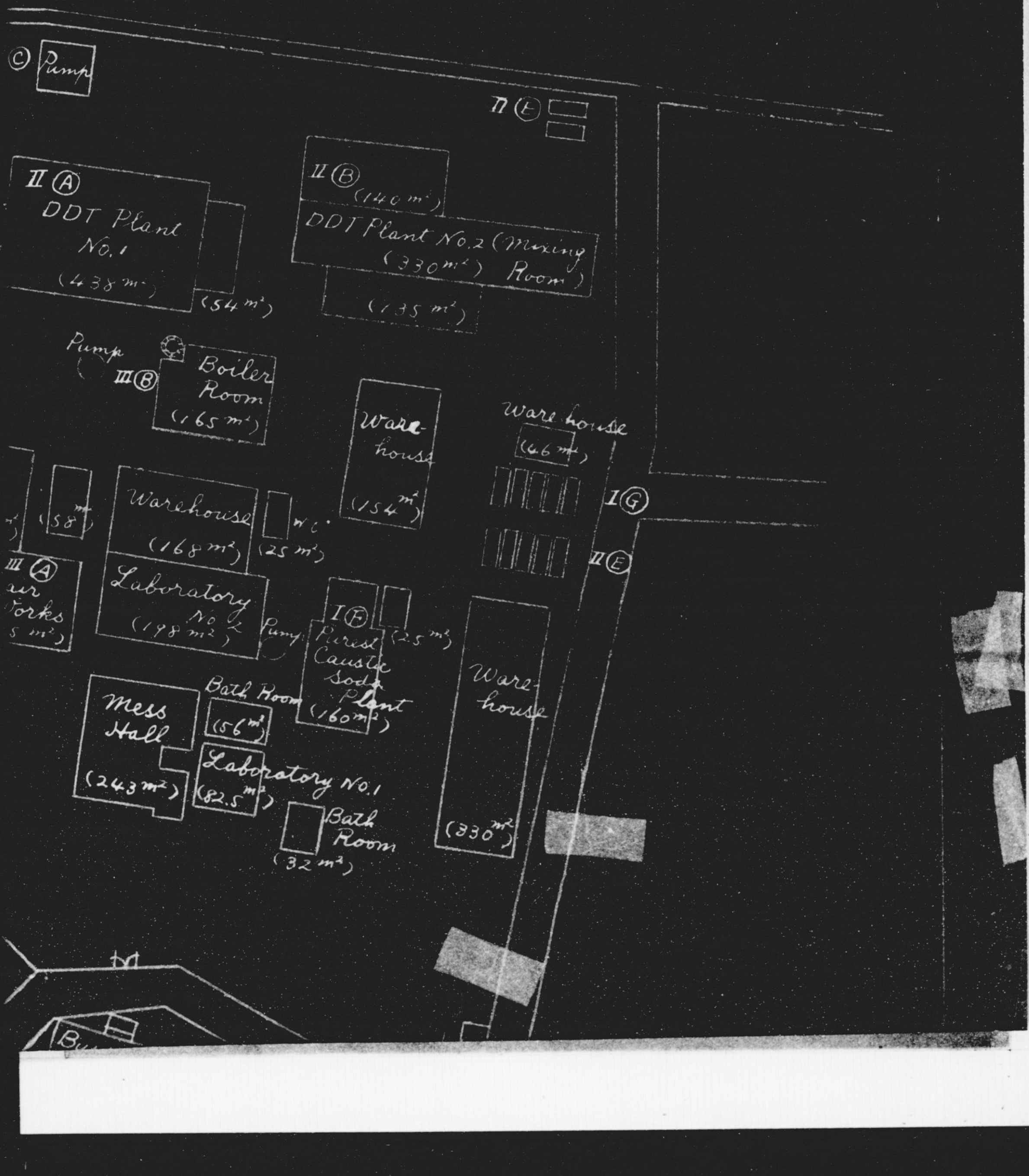
Laboratory No. 1 (82.5 m²)

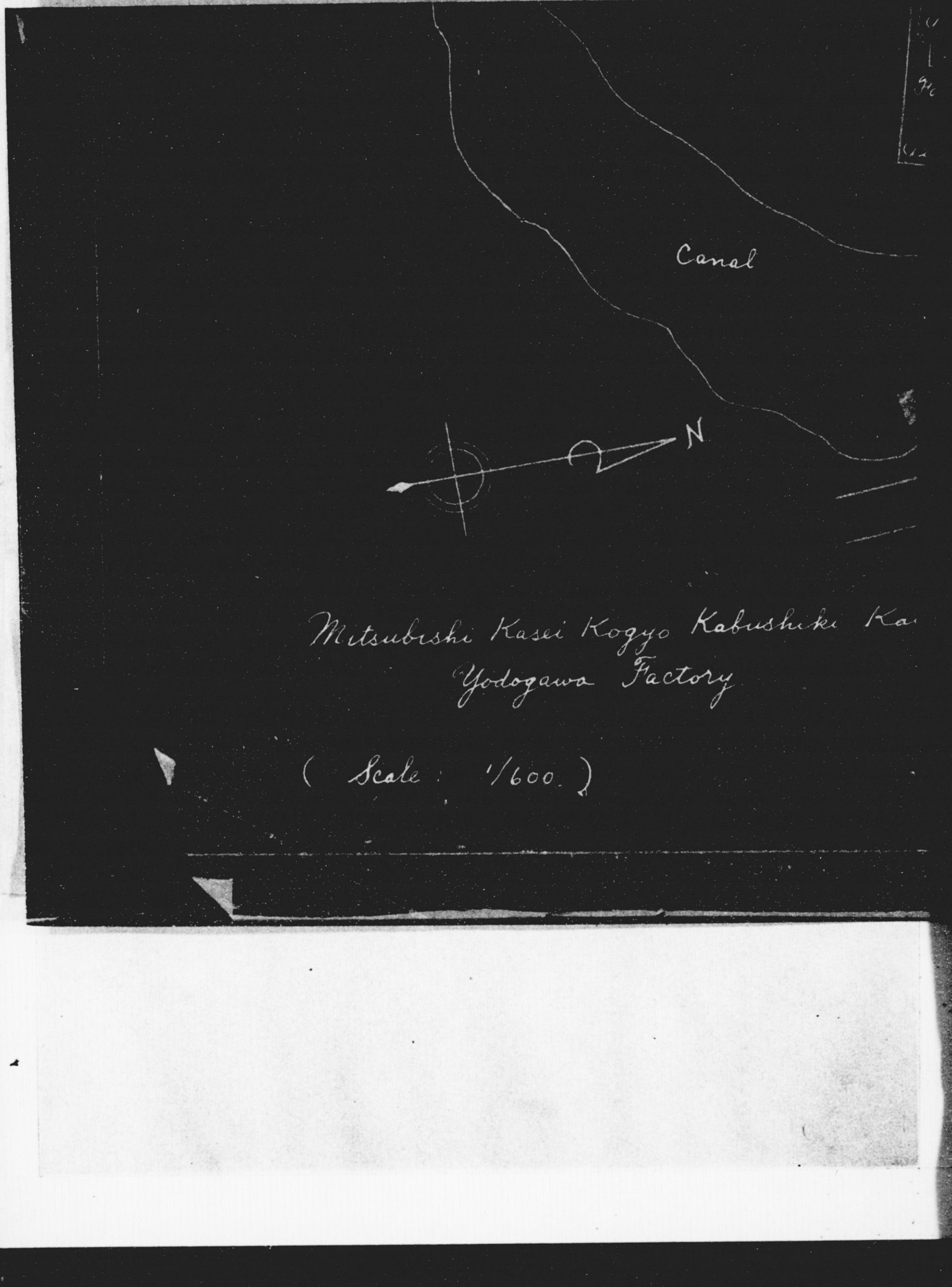
Bath Room (32 m²)

(330 m²)

Factory Office (122 m²)

Canal


Pump
II (E)
II (A)
DDT Plant
No. 1
(438 m²)
(54 m²)
II (B)
(140 m²)
DDT Plant No. 2 (Mixing
(330 m²) Room)
(135 m²)
Pump
III (B)
Boiler
Room
(165 m²)
Ware-
house
(154 m²)
Ware house
(66 m²)
I (G)
II (E)
(58 m²)
Warehouse
(168 m²)
W.C.
(25 m²)
III (A)
Laboratory
No. 2
(198 m²)
Pump
I (F)
Purest
Caustic
Soda
Plant
(160 m²)
(25 m²)
Ware-
house
(330 m²)
Bath Room
(56 m²)
Mess
Hall
(243 m²)
Laboratory No. 1
(82.5 m²)
Bath
Room
(32 m²)



Mitsubishi Kasei Kogyo Kabushiki Ka
Yodogawa Factory

(Scale : 1/600)

(140 m²)

Factory Office (122 m²)

Mess Hall (243 m²)

Bath Room (56 m²)

Laboratory No.1 (82.5 m²)

Bath Room (32 m²)

Forest Caustic Soda Plant (160 m²)

(25 m²)

(330 m²)

War hou

Canal

N

Business Office (195 m²)

(59 m²)

(25 m²)

Warehouse (140 m²)

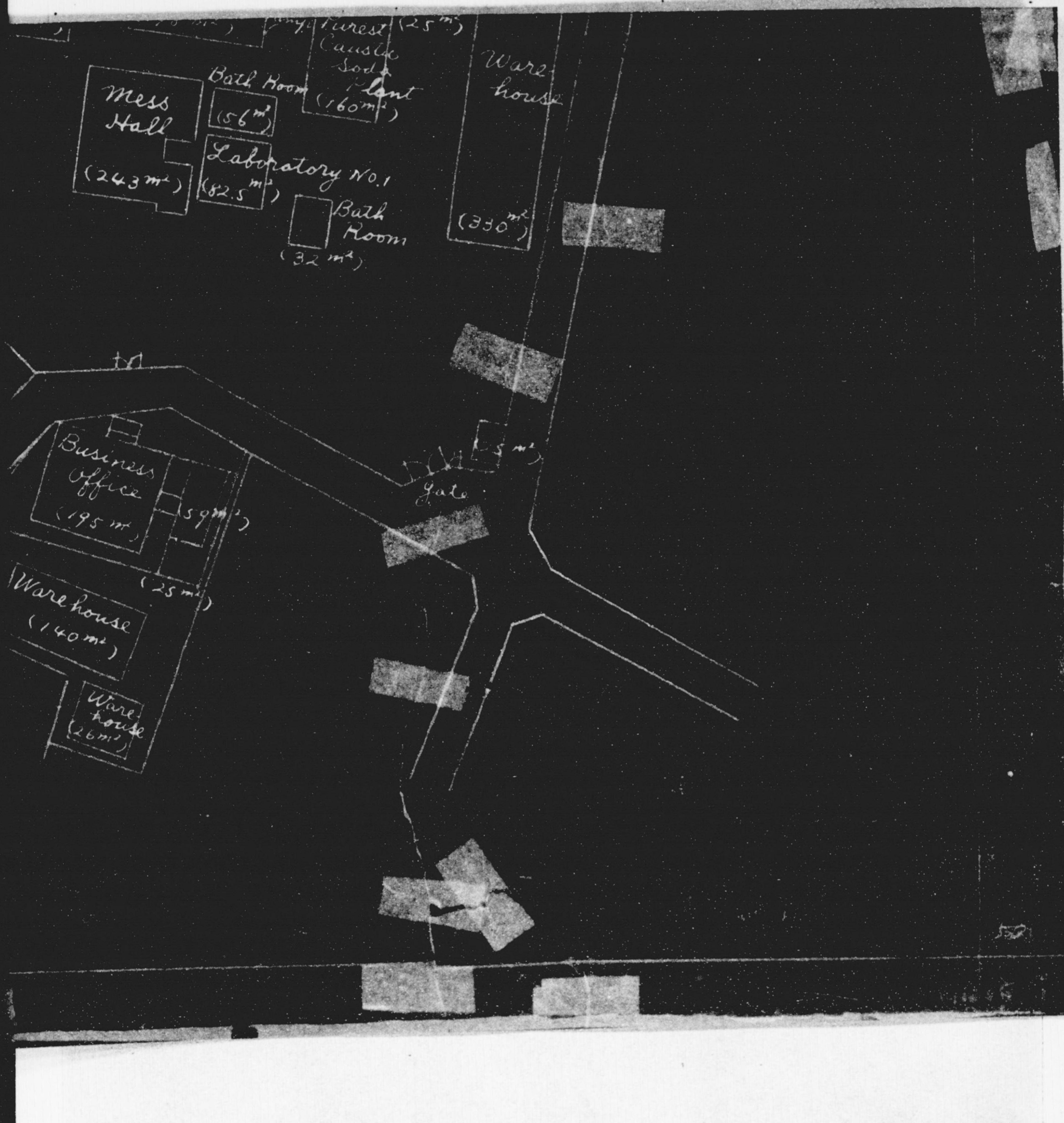
Warehouse (26 m²)

(5 m²)

Gate

ogyo Kabushiki Kaisha

Factory


Forest
Caustic
Soda
Plant
(160m²)
(25m²)
Ware
house
(330m²)
Ball Room
(56m²)
Mess
Hall
(243m²)
Laboratory No.1
(82.5m²)
Bath
Room
(32m²)
(5m²)
Gate
Business
Office
(195m²)
59m²)
(25m²)
Warehouse
(140m²)
Ware
house
(26m²)

INVENTORY FORM CAUSTIC SODA PLANT

Date 19 March 1947

Name of Company Mitsubishi Kasei Kogyo K. K.

Related SCAPIN _____

Name of Plant Yodogawa Plant

Code 32 - 132

Address of Plant No. 15-9 Ebie-shinmachi, Fukushima-ku, Osaka

		Number Marked	
I.	Chemical Manufacturing		111
A.	Equipment	111	
1.	Electrolytic Cells	25	
2.	Evaporators for Caustic Soda	47	
3.	All other Equipment used for manufacturing Caustic Soda (except that listed below)	39	
II.	Electrical Machinery and Apparatus		374
A.	Electrical Rotating Equipment	262	
1.	Generators	1	
2.	Motors	254	
3.	Motor Generators	4	
4.	Frequency Changers	None	
5.	Converters and Inverters	3	
6.	Generator sets (direct coupled to prime mover)	None	
B.	Primary Electric Power Transmission and Distribution	112	
1.	Transformers	17	
2.	Switches	95	

III.	General Purpose Industrial Machinery and Equipment		69
A.	Engines, Turbines and Boilers		2
1.	Steam Engines	None	
2.	Steam Turbine	None	
3.	Boilers power	2	
4.	Internal combution engines	None	
B.	Compressors andPumps		67
1.	Compressors and Dry Vacuum Pumps	23	
2.	Pumps	44	

Y. Sakamoto

YOSHIO SAKAMOTO

Managing Director of
the Yodogawa Plant
Mitsubishi Kasei Kogyo K.K.

DETAILED DESCRIPTION

OF

INVENTORY

(Remark)

●: No relations to the manufacture of caustic soda and chlorine gas.

◎ About these equipments we ~~are making~~ have submitted a petition for the exemption from this inventory. (attached herewith)

D: Dimension W: Weight

(a) No.	(b) Name of Eqt.	(c) Size & Capacity	(d) Maker	(e) Date of estab-lished	(f) Con-dition	(g) Packing	(h) Remark
	1. Chemical Manufacturing						
	A. Equipment						
I.A.1. - 1	1. Electrolytic cells	Krebs Mercury Type 10mx1.5mx2m Current density 6000kmp	Krebs Co.Ltd.	1933	2nd	Amal.Trough D: (2.2x1.0x0.5)x5(section) W: 400kgx5 top.p.D: (0.3x1.0xo.4) W: 50kg bottom." (0.7x1.0x0.5)" 150" cover p."(0.7x0.5x2.0)" 1000" Deamal. Trough D: (2.0x0.5x0.4)x5(section) W: 280kgx5 top.p.D: (o.5x0.5x0.5) W: 60kg bottom" (o.5xo.5x0.4) " 70" cover p. (1.0x0.3x2.0) " 200"	
- 2	"	"	"	"	"	"	
- 3	"	"	"	"	"	"	
- 4	"	"	"	"	"	"	
- 5	"	"	"	"	"	"	
- 6	"	"	"	"	"	"	
- 7	"	"	"	"	"	"	
- 8	"	"	"	"	"	"	
- 9	"	"	"	"	"	"	
-10	"	"	"	"	"	"	
-11	"	"	"	"	"	"	

(a) No.	(b)	(c)	(d)	(e)	(f)	(g)	(h)
I.A.1 - 12	"	"	"	"	"	"	
- 13	"	"	"	"	"	"	
- 14	"	"	"	"	"	"	
- 15	"	"	"	"	"	"	
- 16	"	"	"	1935	"	"	
- 17	"	"	"	"	"	"	
-118	"	"	"	"	"	"	
- 19	"	"	"	"	"	"	
- 20	"	"	"	"	"	"	
- 21	"	"	"	"	"	"	
- 22	"	"	"	"	"	"	
- 23	"	"	"	"	"	"	
- 24	"	"	"	"	"	"	
- 25	"	"	"	"	"	"	

2.Evaporators for caustic soda (plant for manufacturing purest caustic soda)

I.A.2 - 1	Gas furnace	4.2mx1.3mx1.3	our own making	1946	2nd	blick	2000	W:5000		⊕
-2	"	4.3 x1.3 x1.3	"	"	"	"		"		⊕
- 3	"	4.4 x1.4 x0.7	"	"	"	"	1500	3500		⊕
- 4	Electric furnace	4.4 x1.2 x0.8	"	"	"	"	"	"		⊕
- 5	"	2.6 x1.0 x0.5	"	"	"	"	500	1800		⊕
- 6	"	4.8 x0.9 x0.6	"	"	"	"	1000	3500		⊕
- 7	"	4.6 x1.0 x0.6	"	"	"	"	"	"		⊕
- 8	Evaporating Silver Pan	0.42møxo.19m	"	1945	"		0.6mxo.6mx0.25m		5.4kg	⊕

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
I.A.2.							
- 9	"	0.42mØx0.19m	"	"	"	0.6mx0.6mx0.25m 5.4kg	"
- 10	"	"	"	"	"	"	"
- 11	"	"	"	"	"	"	"
- 12	"	"	"	"	"	"	"
- 13	"	"	"	"	"	"	"
- 14	"	"	"	"	"	"	"
- 15	"	"	"	"	"	"	"
- 16	"	"	"	"	"	"	"
- 17	"	"	"	"	"	"	"
- 18	"	"	"	"	"	"	"
- 19	"	"	"	"	"	"	"
- 20	"	"	"	"	"	"	"
- 21	"	"	"	"	"	"	"
- 22	"	"	"	"	"	"	"
- 23	"	"	"	"	"	"	"
- 24	"	"	"	"	"	"	"
- 25	"	"	"	"	"	0.6mx0.6mx0.3m 6.5kg	"
- 26	"	0.42mØx0.24m	"	"	"	"	"
- 27	"	"	"	"	"	"	"
- 28	"	"	"	"	"	"	"
- 29	"	"	"	"	"	"	"
- 30	"	"	"	"	"	"	"
- 31	"	"	"	"	"	"	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
I.A.2.	"						
-32	"	0.34mØx0.37m	"	"	"	0.45mx0.45mx0.3m 7.3kg	"
-33	"	"	"	"	"	"	"
-34	"	"	"	"	"	"	"
-35	"	"	"	"	"	"	"
-36	"	"	"	"	"	"	"
-37	"	"	"	"	"	"	"
-38	"	"	"	"	"	"	"
-39	"	"	"	"	"	"	"
-40	"	"	"	"	"	"	"
-41	"	"	"	"	"	"	"
-42	"	"	"	"	"	"	"
-43	"	"	"	"	"	"	"
-44	"	"	"	"	"	"	"
-45	"	"	"	"	"	"	"
-46	"	"	"	"	"	"	"
-47	"	"	"	"	"	"	"

5. All other equipment used for manufacturing caustic soda (except that listed below)

I.A.3.							
- 1	Salt washing concrete tank	2mØx1.5m	5m3	our own making	1933	2nd	non-removable
- 2	Brine saturating concrete tank	3mx2.5mx2.3. 17.5m3	"	"	"	"	

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
I.A3.							
- 3	"	"	"	"	"	"	
- 4	SO4 separating iron tank	2mØx1.9m	6m3	"	"	3rd	D: 2.2x2.2x2.0 W: 300kg
- 5	"	1.2mØx1.4m	1.6m3	"	"	"	D: 1.5x1.5x1.5 W: 150kg
- 6	Brine purifying concrete tank	3.4mx2.5mx2.6m	25m3	"	"	2nd	Non-removable
- 7	"	"	"	"	"	"	
- 8	Settling concrete tank	4.3mx3.8mx2m	29m3	"	"	"	"
- 9	"	"	"	"	"	"	
-10	"	"	"	"	"	"	
-11	"	"	"	"	"	"	
-12	Neutralizing concrete tank	2.8mx2.4mx1.4m	8m3	"	"	"	"
-13	Pure brine concrete tank	6.5mØx2.8m	80m3	"	"	"	"
-14	Brine level iron tank	1.4mØx1.5m	2.2m3	"	"	3rd	D:1.7x1.7x1.7 W: 200kg
-15	"	"		"	1940	2nd	" "
-16	Dirt filtrating concrete tank	1.5mx1.5mx2.2m		"	1942	"	Non-removable
-17	"	"		"	"	"	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
I.A.3. -18	Concrete tank	2møx2m	our own making	1935	2nd	Unremovable	
-19	"	"	"	"	"	"	
-20	"	"	"	"	"	"	
-21	"	"	"	"	"	"	
-22	"	1.6x3x1.2	"	"	"	"	
-23	"	"	"	"	"	"	
-24	"	1.6x3.5x1.2	"	1940	"	"	
-25	Caustic stofage iron tank	2møx6.5m	our own making	1940	2nd	D: 2.2x2.2x7.0 W:5500kg	
-26	"	"	"	"	"	"	
-27	"	"	"	"	"	"	
-28	"	"	"	"	"	"	
-29	"	"	"	"	"	"	
-30	"	"	"	"	"	"	
-31-	"	1.5mx1.5mx1.8m	"	"	"	D: 1.8x1.8x2.0 W: 150kg	
-32	"	"	"	"	"	"	
-33	" for pure caustic	0.95øx1.5m	"	"	"	D: 1.2x1.2x1.8 W: 150kg	
-34	"	"	"	"	"	"	
-35	"	"	"	"	"	"	
-36	Hoist for salt conveyance	1 ton	"	1933	3rd	D: 1.0x1.5x2.0 W: 500kg	
-37	Hoist	5HP	Yasukawa Denki K.K.	"	2nd	D: 15x0.5x1.5 W: 4500kg	

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
I.A.3. -38	Flaker for pure caustic soda	1mØx1m	our own making	1945	2nd	D: 2.0x2.0x2.0 W:1500kg	⊕
-39	Distillater for mercury	1.2mx2.1mx1.5m (furnace)	"	1940	3rd	blick 1000 W: 3000kg	
		0.3mØx2.1m (distillater)	"	"	"	0.5x0.5x2.5 W: 400kg	

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
	II. Electrical Machinery and Apparatus							
	A. Electrical Rotating Equipment							
II.A.1 -1	1. Generator	3Ph. A.C.20KVA 220V. 60 (didordered)	Unknown	1930	3rd	D: 1.4x0.9x1.1	W: 600kg	⊕
	2. Motors							
II.A.2 - 1	Motor	1HP	Yasukawa	1935	2nd	D: 0.5x0.4x0.3	W: 75"	⊕
- 2	"	"	"	"	"	"	"	⊕
- 3	"	½"	"	"	"	"	" 50"	⊕
- 4	"	1"	"	"	"	"	" 75"	⊕
- 5	"	3"	"	"	"	0.5x0.3x0.4	" 100"	
- 6	"	2"	To-shiba	1938	"	"	" 90"	
- 7	"	"	Meidensha	1934	"	"	" "	
- 8	"	2"	Yasukawa	1936	"	"	" "	⊕
- 9	"	1"	"	1935	3rd	0.5x0.4x0.3	" 75"	
-10	"	3"	"	1936	2nd	0,5x0.3x0.4	" 100"	
-11	"	7½"	"	1935	"	0.6x0.5x0.5	" 200"	⊕
-12	"	"	"	"	"	"	" "	
-13	"	3"	"	1936	"	0.5x0.3x0.4	" 100"	⊕
-14	"	½"	"	1935	"	0.5x0.4x0.3	" 50"	⊕
-15	"	5"	"	"	"	0.5x0.4x0.4	" 130"	
-16	"	3"	"	"	"	0.5x0.3x0.4	" 100"	
-17	"	"	"	"	"	"	" "	

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)	
II.A.2.									
-18	"	5HP	Yasukawa	1935	2nd	D: 0.5x0.4x0.4	W: 130kg		
-19	"	"	"	"	"	" "	"	"	
-20	"	1"	"	"	"	" 0.5x0.4x0.3	"	75"	
-21	"	5"	"	1936	"	" 0.5x0.4x0.4	W	130"	
-22	"	1"	"	1935	"	" 0.5x0.4x0.3	"	75"	
223	"	"	"	"	"	" "	"	"	
-24	"	2"	"	"	"	" 0.5x0.3x0.4	"	90"	
-25	"	"	"	"	"	" "	"	"	
-26	"	"	"	"	"	" "	"	100"	
227	"	3"	"	"	3rd	" "	"	"	
-28	"	½"	"	"	2nd	" 0.5x0.4x0.3	"	50"	
-29	"	1"	"	1936	"	" "	"	60"	
-30	"	"	"	1935	"	" "	"	"	
-31	"	"	"	"	"	" "	"	"	
-32	"	5"	"	"	"	" 0.5x0.4x0.4	"	130"	
-33	"	½"	Matsushita	"	"	" 0.5x0.4x0.3	"	50"	"
-34	"	3"	Yasukawa	1936	"	" 0.5x0.3x0.4	"	100"	"
-35	"	1"	"	1935	"	" 0.5x0.4x0.3	"	75"	"
-36	"	5"	"	"	"	" 0.5x0.4x0.4	"	130"	"
-37	"	"	"	1936	"	" "		"	"

(a)	(b)	(c)	(d)	(e)	(f)		(g)		(h)
II.A.2.	"								
-38	"	5HP	Yasukawa	1936	2nd	D:	0.5x0.4x0.4	W: 130kg	⊕
-39	"	3"	"	1935	"	"	0.5x0.3x0.4	100"	✖
-40	"	"	"	"	"	"	"	"	"
-41	"	2"	"	1937	"	"	"	90"	✖
-42	"	1"	"	1936	3rd	"	0.5x0.4x0.3	75"	⊕
-43	"	"	"	"	"	"	"	"	"
-44	"	3"	"	1935	"	"	0.5x0.3x0.4	100"	"
-45	"	½"	"	1936	2nd	"	0.5x0.4x0.3	50"	"
-46	"	7½"	"	"	3rd	"	0.6x0.5x0.5	200"	✖
-47	"	12	"	"	"	"	0.5x0.4x0.3	75"	"
-48	"	5"	"	1935	2nd	"	0.5x0.4x0.4	130"	"
-49	"	25"	Mitsubishi	1946	"	"	0.9x0.6x0.7	370"	"
-50	"	"	"	"	"	"	"	"	"
-51	"	1"	Yasukawa	1935	3rd	"	0.5x0.4x0.3	75"	"
-52	"	2"	"	"	2nd	"	0.5x0.3x0.4	90"	"
-53	"	2	"	"	"	"	"	300"	"
-54	"	"	"	"	"	"	"	200"	"
-55	"	"	"	"	"	"	"	"	"
-56	"	5"	"	"	"	"	0.5x0.4x0.4	130"	"
-57	"	3"	"	"	"	"	0.5x0.3x0.4	100"	"
-58	"	"	"	"	"	"	"	"	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.A.2.								
-59	"	5HP	Yasukawa	1935	2nd	D: 0.5x0.4x0.4	W: 130kg	
-60	"	20"	"	"	"	0.9x0.6x0.7	370	"
-61	"	15"	"	"	"	0.8x0.5x0.6	300	"
-62	"	7½"	"	"	"	0.6x0.5x0.5	200	"
-63	"	30"	"	1936	"	1.2x0.7x0.8	410	"
-64	"	"	"	"	"	"	"	"
-65	"	2"	"	1935	"	0.5x0.3x0.4	90	"
-66	"	5"	"	"	"	0.5x0.4x0.4	130	"
-67-	"	2"	"	"	"	0.5x0.3x0.4	90	"
--68	"	3"	"	1938	"	"	100	"
-69	"	5"	"	"	"	0.5x0.4x0.4	130	"
-70	"	2"	Toba	1935	3rd	0.5x0.3x0.4	90	
-71	"	"	"	"	"	"	"	
-72	"	5"	Yasukawa	"	2nd	0.5x0.4x0.4	130	
-73	"	15"	"	"	"	0.8x0.5x0.6	300	
-74	"	10"	"	"	"	0.7x0.5x0.5	240	
-75	"	2"	"	"	"	0.5x0.3x0.4	90	
-76	"	1"	"	"	3rd	0.5x0.4x0.3	75	
-77	"	½"	"	"	2nd	"	50	"
-78	"	1"	"	"	"	"	75	"
-79	"	"	"	"	"	"	"	"
-80	"	"	"	"	"	"	"	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.A.2.								
-81	"	1HP	Yasukawa	1936	3rd	D: 0.5x0.4x0.3	W: 75kg	⊕
-82	"	½"	"	"	"	"	50	"
-83	"	1"	"	"	"	"	75	"
-84	"	5"	"	"	2nd	0.5x0.4x0.4	130	"
-85	"	5"	"	"	"	"	"	"
-86	"	2"	"	"	"	0.5x0.3x0.4	90	"
-87	"	"	"	"	"	"	"	"
-88	"	"	"	"	"	"	"	"
-89	"	5"	"	"	"	0.5x0.4x0.4	130	"
-90	"	7½"	"	"	"	0.6x0.5x0.5	200	"
-91	"	3"	Meidensha	1946	"	0.5x0.3x0.4	100	"
-92	"	1"	Yasukawa	1936	"	0.5x0.4x0.3	75	"
-93	"	2"	"	"	"	0.5x0.3x0.4	90	"
-94	"	"	"	"	"	"	"	"
-95	"	1"	"	"	"	0.5x0.4x0.3	75	"
-96	"	5"	"	"	"	0.5x0.4x0.4	130	"
-97	"	5"	"	"	"	"	200	"
-98	"	15"	"	"	"	0.8x0.5x0.6	300	"
-99	"	5"	"	"	"	0.5x0.4x0.4	130	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.A.2.								
100	"	10HP	Yasukawa	1936	2nd	D: 0.7x0.5x0.5	W: 240kg	"
101	"	5"	"	"	"	0.5x0.4x0.4	130	"
102	"	½"	Matsushita	"	3rd	0.5x0.4x0.3	50	"
103	"	10"	Yasukawa	1937	2nd	0.7x0.5x0.5	240	"
104	"	"	"	"	"	"	240	"
105	"	7½"	"	"	"	0.6x0.5x0.5	200	"
106	"	10"	"	"	"	0.7x0.5x0.5	240	"
107	"	"	"	1938	"	"	"	"
108	"	7½"	"	"	"	0.6x0.5x0.5	200	"
109	"	5"	"	1937	"	0.5x0.4x0.4	130	"
110	"	2"	"	"	"	0.5x0.3x0.4	90	"
111	"	3"	Hidachi	1936	"	"	100	"
112	"	1"	Yasukawa	1937	"	0.5x0.4x0.3	75	"
113	"	1"	"	"	"	"	75	"
114	"	10"	"	1936	"	0.7x0.5x0.5	240	"
115	"	2"	"	1937	"	0.5x0.3x0.4	90	"
116	"	3"	"	"	"	"	100	"
117	"	"	"	"	"	"	100	"
118	"	"	Meidensha	1946	"	"	100	"
119	"	15"	Yasukawa	1938	"	0.8x0.5x0.6	300	"
120	"	1"	"	1937	"	0.5x0.4x0.3	75	"
121	"	5"	"	1938	"	0.5x0.4x0.4	130	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.A.2.								
122	"	5HP	Meidensha	1936	2nd	D: 0.5x0.4x0.4	W: 130kg	"
123	"	3"	Yasukawa	1938	"	0.5x0.3x0.4	100	
124	"	20"	Mitsubishi	1937	"	0.9x0.6x0.7	370	"
125	"	2"	Yasukawa	"	"	0.5x0.3x0.4	90	"
126	"	"	"	1936	"	0.5x0.3x0.4	90	"
127	"	"	"	"	"	"	90	"
128	"	20"	"	1937	"	0.9x0.6x0.7	370	"
129	"	3"	"	1936	"	0.5x0.3x0.4	100	"
130	"	1"	"	"	3rd	0.5x0.4x0.3	75	"
131	"	"	"	1937	"	"	75	"
132	"	"	"	"	2nd	"	75	"
133	"	15"	"	1936	"	0.8x0.5x0.6	300	"
134	"	"	"	"	"	"	"	"
135	"	"	"	1935	"	"	"	"
136	"	20"	"	"	"	0.8x0.6x0.7	370	"
137	"	10"	"	"	"	0.7x0.5x0.5	240	"
138	"	15"	Meidensha	"	3rd	0.8x0.5x0.6	300	"
139	"	50"	Hidachi	"	2nd	1.3x0.9x0.9	480	"
140	"	10"	Yasukawa	1936	"	0.7x0.5x0.5	240	"
141	"	20"	Fujimoto	"	"	0.9x0.6x0.7	370	"
142	"	15"	Mitsubishi	"	"	0.8x0.5x0.6	300	"

15.

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.A-2.								
143	"	3HP	Yasukawa	1936	2nd	D:0.5x0.3x0.4	W: 100kg	"
144	"	2"	"	"	"	0.5x0.3x0.4	90	"
145	"	3"	"	"	3rd	"	100	"
146	"	3"	"	"	2nd	"	90	"
147	"	1"	"	"	"	0.5x0.4x0.3	75	"
148	"	1"	"	"	"	"	75	"
149	"	3"	"	"	"	0.5x0.3x0.4	100	"
150	"	3"	"	"	"	"	"	"
151	"	3"	"	1937	"	"	"	"
152	"	3"	Kawakita	1936	3rd	"	"	"
153	"	2"	Mitsubishi	1946	1st	"	90	"
154	"	2"	Yasukawa	1936	2nd	"	"	"
155	"	2"	"	"	"	"	"	"
156	"	1"	"	"	"	0.5x0.4x0.3	75	"
157	"	3"	"	"	"	0.5x0.4x0.4	100	"
158	"	3"	"	"	"	"	100	"
159	"	2"	"	"	"	0.5x0.3x0.4	90	"
160	"	2"	"	"	"	"	"	"
161	"	2"	"	"	"	"	"	"
162	"	2"	"	"	"	"	"	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.A.2								
163	"	1HP	Yasukawa	1936	2nd	D: 0.5x0.4x0.3	W: 75kg	◎
164	"	3"	"	"	"	0.5x0.3x0.4	100	"
165	"	2"	"	"	"	"	90	"
166	"	3"	"	"	"	"	100	"
167	"	2"	"	"	"	"	90	"
168	"	½"	Mitsubishi	"	3rd	0.5x0.4x0.3	50	"
169	"	2"	Yasukawa	"	2nd	0.5x0.3x0.4	90	"
170	"	½"	Kawakita	"	3rd	0.5x0.4x0.3	50	"
171	"	2"	Yasukawa	"	2nd	0.5x0.3x0.4	90	"
172	"	50 "	Mitsubishi	1946	"	1.3x0.9x0.9	480	"
173	"	10 "	Yasukawa	1938	"	0.7x0.5x0.5	240	"
174	"	15 "	"	"	"	0.8x0.5x0.6	300	"
175	"	30 "	"	1936	"	1.2x0.7x0.8	410	"
176	"	7½"	Kawakita	"	3rd	0.6x0.5x0.5	200	"
177	"	20 "	Kobe Seiko	1938	"	0.9x0.6x0.7	370	"
178	"	3 "	Yasukawa	1936	"	0.5x0.3x0.4	100	"
179	"	50 "	Mitsubishi	1946	2nd	1.3x0.9x0.9	530	"
180	"	1 "	Meidensha	"	"	0.5x0.4x0.3	75	"
181	"	3 "	Ball	1945	1st	0.5x0.3x0.4	100	"
182	"	½ "	Yasukawa	1940	2nd	0.5x0.4x0.3	50	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.A.2.								
183	"	1HP	Yasukawa	1936	2nd	D: 0.5x0.4x0.3	W: 75kg	Q
184	"	1"	"	"	"	"	"	"
185	"	1"	"	"	"	"	"	"
186	"	½"	"	"	"	"	50	"
187	"	5"	Meidensha	"	"	0.5x0.4x0.4	130	"
188	"	2"	Yaukawa	"	"	0.5x0.3x0.4	90	"
189	"	3"	Ball	1945	1st	"	100	"
190	"	1"	Yasukawa	1936	2nd	0.5x0.4x0.3	75	"
191	"	2"	Kawakita	"	"	0.5x0.3x0.4	90	"
192	"	2"	Meidensha	"	"	"	90	"
193	"	2"	Yasukawa	1938	1st	"	90	"
194	"	2"	"	"	"	"	90	"
195	"	2"	"	"	"	"	90	"
196	"	2"	"	"	"	"	90	"
197	"	2"	"	"	"	"	90	"
198	"	1½"	Okumura	"	3rd	"	90	"
199	"	1"	Yasukawa	1936	"	0.5x0.4x0.3	75	"
200	"	3"	Mitsubishi	1946	2nd	0.5x0.3x0.4	100	"
201	"	2"	Yasukawa	1936	"	"	90	"
202	"	½"	"	1936	"	0.5x0.4x0.3	50	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.A.2.								
203	"	1HP	Yasukawa	1937	3rd	D: 0.5x0.4x0.3	W: 75kg	⑦
204	"	½	"	1936	2nd	"	50	⑧
205	"	2	"	1940	"	0.5x0.3x0.4	90	⑨
206	"	1	"	"	"	0.5x0.4x0.3	75	"
207	"	1	"	1936	"	"	75	⑩
208	"	3	"	"	3rd	0.5x0.3x0.4	100	"
209	"	1	"	"	"	0.5x0.4x0.3	75	"
210	"	½	"	"	2nd	"	50	"
211	"	1	"	"	3rd	"	75	"
212	"	1	"	1939	2nd	"	75	"
213	"	1	"	1936	"	"	75	"
214	"	2	"	"	"	0.5x0.3x0.4	90	"
215	"	1	"	"	"	0.5x0.4x0.3	75	"
216	"	2	"	"	3rd	0.5x0.3x0.4	90	"
217	"	2	"	"	2nd	"	90	"
218	"	2	"	"	"	"	90	"
219	"	½	Kawakita	"	"	0.5x0.4x0.3	50	"
220	"	3	Shibaura	"	3rd	0.5x0.3x0.4	100	"
221	"	1	Yasukawa	"	2nd	0.5x0.4x0.3	75	"
222	"	3	"	"	"	0.5x0.3x0.4	100	"
223	"	2	"	"	3rd	"	90	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
TI.A.2.							
224	"	1HP	Yasukawa	1936	2nd	D: 0.5x0.4x0.3 W: 75kg	"
225	"	3	"	"	3rd	0.5x0.3x0.4 100	"
226	"	3	"	"	2nd	" "	"
227	"	3	Kawakita	"	"	" "	"
228	"	1	Yasukawa	"	"	0.5x0.4x0.3 75	"
229	"	2	Kawakita	"	3rd	0.5x0.3x0.4 90	"
230	"	2	Yasukawa	"	2nd	" "	"
231	"	2	"	"	"	" "	"
232	"	1	"	"	2	0.5x0.4x0.3 75	"
233	"	2	Meidensha	"	"	0.5x0.3x0.4 90	"
234	"	3	Yasukawa	"	"	" 100	"
235	"	5	Kawakita	"	3rd	0.5x0.4x0.4 130	"
236	"	5	Meidensha	"	"	" "	"
237	"	5	Kawakita	"	"	" "	"
238	"	5	Meidensha	1946	2nd	" "	"
239	"	3	Yasukawa	1936	"	0.5x0.3x0.4 100	"
240	"	2	Hidachi	"	"	" 90	"
241	"	3	Yasukawa	1938	"	" 100	"
242	"	2	Kawakita	1936	3rd	" 90	"
243	"	½	Ibuki	"	"	0.5x0.4x0.3 50	"
244	"	2	Togami	1939	2nd	0.5x0.3x0.4 90	"
245	"	1	Yasukawa	1936	"	0.5x0.4x0.3 75	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
II.A.2.							
246	"	½HP	Kawakita	1936	3rd	D: 0.5x0.4x0.3 W: 50kg	⊕
247	"	3	"	"	"	0.5x0.3x0.4 100	"
248	"	3	Yasukawa	"	2nd	" "	"
249	"	3	"	"	"	" "	"
250	"	2	Shibaura	"	"	" 90	"
251	"	1	Yasukawa	1937	"	0.5x0.4x0.3 75	"
252	"	2	"	1938	"	0.5x0.3x0.4 90	✕
253	"	3	"	1941	"	" 100	✕
254	"	2	"	1938	"	" 90	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
3.	Motor Generators						
II.A.3.-1	Motor Generator	2K.W. 110V.	Nishibun	1936.	2nd	D: 0.6x1.2x0.5 W: 150kg	⊕
-2	"	1 " 12V.	Kyoritsu	1932.	"	" 0.5x1.4x0.6 " 120"	"
-3	"	6 " 10V.	Hitachi	1934.	"	" 0.8x0.9x0.9 " 600"	"
-4	"	18.75" 15V.	Chuou	1946.	1st	" 1.5x0.8x1.3 " 1200"	"

4. Frequency Changers — None

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	5. Converters and Inverters						
II.A.5.-1	Converter	690K.W. 115V. 6000A.	Shibaura	1938	2nd	D: 4.2x2.5x2.6 W: 15000kg	
-2	"	630 " 105v. 6000A.	Meidensha	1934	"	D: 4.3x2.6x2.5 W: 14500"	
-3	"	360 " 60v. 6000A.	Shibaura	1932	"	D: 3.5x2.4x2.5 W: 13000"	⊖
	6. Generato sets	None					

B. Primary Electric Power Transmission and Distribution

1. Transformers

II.B.1.	Transformer	750K.V.A. 60	Shibaura	1938	2nd	D: 2.0x1.4x2.9 W: 4500kg	
-1	"	" "	Meidensha	1934	"	1.9x1.3x2.9 5500	
-2	"	" "	Shibaura	1932	"	1.5x1.7x2.7 3750	⊖
-3	"	440 " "	Osaka Henatsuki	1940	"	0.7x0.6x0.9 300	
-4	"	20 " "	"		"	0.9x0.8x1.3 650	Borrowed from Kansai Haiden
-5	"	50 " "	"	1932	"	" "	"
-6	"	" "	"	"	"	" "	"
-7	"	" "	"	"	"	" "	⊕ "
-8	"	100 " "	"	"	"	0.9x1.0x1.4 850	⊕ "
-9	"	100 " "	"	"	"	0.9x1.0x1.4 "	⊕ "
-10	"	100 " "	"	"	"	" "	⊕ "
-11	"	100 "	Mitsubishi	1946	1st	0.9x0.7x1.3 560	⊖

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
II.B.1.							
12	"	100K.V.A. 60 .	Mitsubishi	1946	1st	D: 0.9x0.7x1.3 W: 660kg	⊘
13	"	"	"	"	"	" "	"
14	"	7½ " "	Kawakita	1930	Scrap	0.7x0.7x0.7 140	"
15	Regulator	143 " "	Shibaura	1938	2nd	1.5x1.5x2.4 3200	
16	"	210 " "	Meidensha	1934	"	1.4x0.9x2.8 5200	
17	"	126 " "	Shibaura	1932	"	1.1x.1.1x2.2 3000	⊕

2. Switches

II.B.2.							
1	Switch	30A. 250V.	Togami	1945	2nd	D: 0.3x0.3x0.3 W: 6kg	
2	"	"	"	"	"	" "	
3	"	"	Taito	1946	"	0.2x0.3x0.2 4"	
4	"	"	"	"	"	" "	
5	"	"	"	"	"	" "	
6	"	"	"	"	"	" "	
7	"	"	"	"	"	" "	
8	"	"	"	"	"	" "	
9	"	"	"	"	"	" "	
10	"	"	"	"	"	" "	
11	"	"	"	"	"	" "	
12	"	"	"	"	"	" "	

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
II.B.2.							
13	"	"	Togami	1944	2nd	D: 0.3x0.3x0.3 W: 6kg	㊥
14	"	"	"	"	"	" "	
15	"	"	Taito	"	"	0.2x0.3x0.2 4kg	㊦
16	"	"	"	"	"	" "	〃
17	"	"	"	"	"	" "	〃
18	"	"	"	"	"	" "	〃
19	"	"	"	"	"	" "	〃
20	"	"	"	1946	"	" "	
21	"	"	"	"	"	" "	
22	"	"	"	"	"	" "	
23	"	"	"	"	"	" "	
24	"	"	"	"	"	" "	
25	"	"	"	"	"	" "	
26	"	"	Togami	"	"	0.3x0.3x0.3 6kg	
27	"	"	Taito	"	"	0.2x0.3x0.2 4"	㊦
28	"	"	"	"	"	" "	〃
29	"	"	"	"	"	" "	〃
30	"	"	"	"	"	" "	〃
31	"	"	"	"	"	" "	〃
32	"	"	Togami	"	"	0.3x0.3x0.3 6kg	〃
33	"	"	"	"	"	" 6"	〃
34	"	"	"	"	"	" "	〃
35	"	"	"	"	"	" "	〃

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
II.B.2.							
36	"	"	Togami	1946	2nd	D: 0.3x0.3x0.3 W: 6kg	"
37	"	"	"	"	"	"	"
38	"	"	"	"	"	"	"
39	"	"	"	"	"	"	"
40	"	"	Taito	"	"	0.2x0.3x0.2 4kg	"
41	"	"	"	"	"	"	"
42	"	"	"	"	"	"	"
43	"	"	"	"	"	"	"
44	"	"	"	"	"	"	"
45	"	"	"	"	"	"	"
46	"	"	"	"	"	"	"
47	"	"	"	"	"	"	"
48	"	"	"	"	"	"	"
49	"	"	"	"	"	"	"
50	"	"	Togami	"	"	0.3x0.3x0.3 5kg	"
51	"	100A. 250V.	"	"	"	0.2x0.5x0.2 8"	"
52	"	30A. "	"	"	"	0.2x0.3x0.2 4"	"
53	"	" "	"	"	"	0.3x0.3x0.3 6"	
54	"	100A. "	Auto-	"	"	0.2x0.5x0.2 8"	
55	"	30A. "	matic CO. Taito	"	"	0.2x0.3x0.2 4"	
56	"	" "	"	"	"	0.2x0.4x0.2 5"	
57	"	" "	"	"	"	" 5"	

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.B.2.								
58	"	30A. 250V.	Taito	1946	2nd	D: 0.2x0.4x0.2	W: 5kg	⊕
59	"	"	"	"	"	0.2x0.3x0.2	4"	"
60	"	"	"	"	"	"	"	"
61	"	"	"	"	"	"	"	"
62	"	"	"	"	"	"	"	"
63	"	"	"	"	"	"	"	"
64	"	50A.3300V.	Togami	"	"	0.5x0.4x0.4	20"	⊕
65	"	"	"	"	"	"	"	"
66	"	"	"	"	"	"	"	"
67	"	" 250V.	Toba	"	"	"	"	"
68	"	30A. "	Taito	"	"	0.2x0.3x0.2	4"	"
69	"	150A.3300V.	Hinode	"	"	0.4x0.5x0.2	20"	"
70	"	30A. 250V.	Taito	"	"	0.2x0.3x0.2	4"	"
71	"	400A.3300V½	Hinode	1937	"	0.6x0.6x0.3	50"	
72	"	" "	Shibaura	1938	"	"	"	
73	"	30A. "	"	"	"	"	45"	
74	"	50A. "	Togami	1940	"	0.5x0.4x0.4	20"	"
75	"	300A. "	Meidensha	1934	"	0.5x0.6x0.3	50"	
76	"	"	Hinode	1932	"	"	"	
77	"	200A. "	Takeda	1946	"	0.5x0.6x0.3	45"	⊕
78	"	"	Hinode	1937	"	"	"	=
79	"	100A. "	Takeda	1942	"	0.5x0.5x0.3	35"	
80	"	"	"	1946	"	"	"	"

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
II.B.2.								
81	"	30A. 250V.	Togami	1940	3rd	D: 0.5x0.5x0.4	W: 50kg	@
82	"	"	"	"	"	"	"	"
83	"	"	"	"	"	"	"	"
84	"	50A. "	Nippon Denki	"	"	"	"	"
85	"	" 3300V.	Togami	1946	2nd	0.5x0.4x0.4	20"	"
86	"	800A. "	Meidensha	"	"	0.7x0.9x0.5	80"	"
87	"	30A. 250V.	Hinode	"	"	0.5x0.5x0.3	35"	"
88	"	"	Taiyo	"	"	0.2x0.3x0.2	4"	"
89	"	"	"	"	"	"	"	"
90	"	"	"	"	"	"	"	"
91	"	"	"	"	"	"	"	"
92	"	"	"	"	"	"	"	"
93	"	"	"	"	"	"	"	"
94	"	"	"	"	"	"	"	"
95	"	"	"	"	"	"	"	"

III. General Purpose Industrial Machinery and Equipment

A. Engines, Turbines and Boilers

1. Steam engines — None
2. Steam turbines — None
3. Boilers power

III.A.3.	(b)	(c)	(d)	(e)	(f)	(g)		(h)
-1	Steam boiler	1.37ø x 2.9m	Unknown	1933	3rd	block 15000	W: 45000kg	⊕
-2	Electric boiler	1.28ø x 2.86m	Hirakawa	1946	1st	1.8x1.8x3.5 1.5x1.5x3.2	8500" 800"	" ⊕

4. Internal combustion engines — None

B. Compressors and Pumps

1. Compressors and dry vacuum pumps

III.B.1.							
-1	Air compressor	7½HP	Yokota	1940	2nd	D: 1.0x1.5x1.5	W: 200kg
-2	"	"	"	"	"	"	"
-3	"	"	Unknown	1938	3rd	1.0x0.8x0.8	150 ⊕
-4	"	2 "	Kinshiwick	1933	2nd	0.7x0.8x0.9	50 "
-5	"	5 "	Yammer diegel	1946	"	0.7x0.7x0.9	100 "
-6	"	"	Unknown	"	"	0.6x0.6x1.0	" ⊕
-7	"	10 "	"	"	"	0.8x1.3x1.1	200 "
-8	"	3 "	"	1933	"	1.0x0.7x1.3	50

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
III.B.1.							
9	Ammonia Compressor	30HP	Chuou	1940	2nd	D: 1.8x1.4x1.3 W:2500kg	⊕
10	"	"	Sanyo	"	"	" "	"
11	"	20 "	Volt.Mfg.	1935	"	1.5x1.2x1.8 1800"	"
12	"	15 "	Kinshiwick	"	3rd	1.5x1.0x1.8 1300"	"
13	"	7½"	"	"	2nd	1.1x1.0x1.5 650"	"
14	Nash Pump	20HP	Takahashi	1945	"	1.0x2.0x0.7 150"	"
15	"	"	"	"	"	" "	"
16	"	"	"	"	3rd	" "	"
17	"	"	"	"	"	" "	"
18	"	50"	Tajiri	"	"	1.0x0.8x1.5 300"	"
19	Vacuum Pump	3 "	Nash Co.	1935	"	0.6x1.2x0.6 100"	"
20	"	5"	Omino	1946	2nd	0.7x1.4x0.7 250"	"
21	"	10"	Hasegawa	"	"	0.9x0.8x1.8 350"	⊕
22	"	5"	Omino	"	"	1.4x0.7x1.0 250"	"
23	Nash pump	20"	Nihon Glass	1945	3rd	1.0x2.0x1.0 "	"

2. Pumps

III.B.2.							
1	Pump	Dia 4".	Unknown	1942	3rd	D: 0.6x1.4x0.7 W: 150kg	
2	"	"	"	"	"	" "	
3	"	"	"	"	"	" "	
4	"	"	"	"	"	" "	
5	"	"	"	1943	"	" "	⊕

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
III.B.2.							
6	Pump	Dia 2"	Nippon Glass	1940	2nd	D: 0.6x1.4x0.7 W: 150kg	
7	"	"	"	1942	"	"	
8	"	"	"	"	"	" "	
9	"	"	"	1946	1st	" "	
10	"	"	"	"	"	" "	
11	"	"	"	"	"	" "	⊕
12	"	"	"	"	"	" "	〃
13	"	"	Yodogawa Pump	"	2nd	0.5x1.2x0.7 120"	
14	"	"	"	"	"	" "	
15	"	"	Kyoritsu	"	"	0.4x1.2x0.6 100"	⊕
16	"	Dia 5"	"	1943	"	0.7x1.4x0.9 200"	
17	"	"	"	"	"	" "	
18	"	"	3" Yodogawa Pump	1946	"	0.7x1.4x0.8 150"	⊕
19	"	"	"	"	"	" "	〃
20	"	"	"	"	"	" "	〃
21	"	"	2" Kyoritsu	"	"	0.4x1.2x0.6 100"	⊕
22	"	"	"	"	"	" "	〃
23	"	"	"	"	"	0.6x1.1x0.6 "	〃
24	"	"	Unknown	1933	"	0.5x1.0x0.6 120"	
25	"	"	"	"	"	" "	

(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)
III.B.2.								
26	Pump	Dia 2"	Miura	1935	2nd	D: 0.5x1.0x0.5	W: 120kg	⊕
27	"	"	"	"	"	0.5x1.0x0.6	"	⊕
28	"	2HP	Yodogawa	1946	"	0.5x1.2x0.6	100"	●
29	"	1"	Nippon Gl.	"	3rd	0.5x1.0x0.6	80"	⊕
30	"	"	"	"	"	"	"	⊕
31	"	"	"	"	Scrap	-	-	⊕
32	"	"	"	"	"	-	-	⊕
33	"	Dia 2"	Takayama	"	2nd	0.6x1.4x0.7	150"	●
34	"	"	"	"	"	"	"	●
35	"	"	Unknown	1940	3rd	0.6x1.0x0.5	120"	
36	Bore hole pump	" 4"	Yamane	1943	2nd	0.7x0.7x0.9 0.6x2.5x0.3	200" 3000"	⊕
37	"	" 5"	"	1937	"	0.7x0.7x1.2 0.7x2.5x0.4	250" 3800"	"
38	Washington pump	$1\frac{1}{2}$"	Unknown	1933	"	0.5x1.0x0.6	200"	
39	"	"	"	"	"	0.6x1.4x0.7	130"	"
40	"	2"	Yodogawa	1946	"	0.5x1.3x0.7	150"	"
41	"	1"	Matsuda	"	"	0.4x1.2x0.6	"	"
42	"	"	"	"	"	"	"	"
43	"	3"	Unknown	1940	"	0.6x1.1x0.7	120"	"
44	"	"	"	1935	"	"	"	⊕