

775 013

Drill machine	Belt dia 46"			/
"	" 22			/
"	" 20			/
Screw cutter	" 20"			/
Milling machine	" 10" x 44"			/
Shaper	" 18 inches			/
Slotter	" 18 "			/
Planner	" 8 shaku			/
"	" 6 "			/
Grinder				/
Sawing machine	with motor Band saw			/
Lath	belt 6 shaku			/
Motor		1800 RPM	10 KW	/
Reducing gear		1800/150 RPM		/
Electric drill machine	with motor 22"		1940	/
Lath	with motor 8 shaku		1944	/
"	Belt 8"		1905	/
"	" 8"		1942	/
"	" 16"		"	/

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9-10

	/	/	0	
	/	/	0	
	/	/	0	
	/	/	0	
	/	/	0	
	/	/	0	
	/	/	0	
	/	/	0	} Building # 8
	/	/	0	
	/	/	0	
	/	/	0	
	/	/	0	
RPM KW	/	/	0	
1800 10	/	/	0	
1800/150 RPM	/	/		
1940	/	/		
1944	/	/		
1905	/	/		} Building # 87
1942	/	/		
"	/	/		

Lath	Belt 6"		1937	1
Planer	" 4		1912	1
"	" 6		1942	1
Shaper	with motor ^{inches} 24		1937	1
Milling machine	belt ^{vertical} 10" x 28"		1942	1
Slotter	" ^{shaku} 8		1900	1
Drill machine	" ^{inches} Dia 2		1939	1
Milling machine	" 9" x 8"		1912	1
Lath	" ^{shaku} 4		1908	1
"	" 10"		1910	1
Sawing machine	with motor circular saw		1931	1
Lath	belt ^{shaku} 12			2
"	" 8"			1
Kippora		500 kg	1916	2
"		1500	1943	1
Electric blower			1942	2
Drying oven			1943	1
Lath	6 shaku belt		"	1
Crane	overhead travel	3 tons	1942	1

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	1937	/	/		
	1912	/	/		
	1942	/	/		
	1937	/	/		
	1942	/	/	0	} Building # 87
	1900	/	/	0	
	1939	/	/	0	
	1912	/	/	0	
	1908	/	/	0	
	1910	/	/	0	
	1931	/	/	0	
		Z	Z	0	
		/	/	0	
500 kg	1916	Z	Z	0	
1500	1943	/	/	0	} Building # 7
	1942	Z	Z	0	
	1943	/	/	0	
	"	/	/	0	
3 tons	1942	/	/	0	

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Motor		1 KW 1800 R.P.M.	1938	1
Centrifugal pump		Head 30 m 300 ton/h	1940	1
Motor		50 KW 180 R.P.M.	1939	1
Centrifugal pump		300 ton/h	"	2
Motor		R.P.M. 1800 30 KW	"	1
Centrifugal pump		φ 2"	1941	1
Motor		7.5 KW 1800 R.P.M.	"	1
"		75 HP 1800 R.P.M.	"	1
"		30 KW 1800 R.P.M.	"	1
"		15 HP 1200 R.P.M.	"	1
Air compressor		6.5 x 6" 3 M ³ /min	"	1
Deep well pump		H 40 m 150 ton/h	"	1
Bridge balance	"Kawashiki"	15 ton		1
"	"Taisho"	10 "		1
Crane		3 "		1
Machine shop equipment				
Shaft line			1944	

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1 KW 1800 R.P.M.	1938	1	0	1	0	30
head 30 m 300 ton/h	1940	1	0	1	0	122
50 KW 180 R.P.M.	1939	1	0	1	0	"
300 ton/h	"	2	0	2	0	301
R.P.M 1800 30 KW	"	1	0	1	0	"
φ 2"	1941	1	0	1	0	"
7.5 KW 1800 R.P.M.	"	1	0	1	0	"
75 HP 1800 R.P.M.	"	1	0	1	0	"
30 KW 1800 R.P.M.	"	1	0	1	0	"
15 HP 1200 R.P.M.	"	1	0	1	0	"
6.5 x 6" 3 M ³ /min	"	1	0	1	0	"
H 40 m 150 ton/h	"	1	0	1	0	"
"						
15 ton		1	0	1	0	
10 "		1	0	1	0	
3 "		1	0	1	0	
	1944					8

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Kuppura			1944	
Electric blower			"	
Crane	Over head travell	2 TALS	"	1
Rolling mill			"	1
Drop hammer		100 KG	1936	1
Grinder		φ 20 KG 5HP	"	1
Motor		R.P.M 1800	"	
"		15HP R.P.M 900	"	1
Shaft line			"	1
Blower		2.75 KW 1800 R.P.M	"	1
Smith hearth			"	1
Blower			"	1
Electric welder		1.2 KW	"	1
"		1.0 KW	"	1
"		2.5 KW	"	2
"		5 KW	"	1
Sawing machine	Circular saw		1944	1
"	Band saw		"	1
Surface machine	Surface saw		"	1

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		1944					8
		"					"
lead	2 talc	"	1	0	1	0	"
		"	1	0	1	0	"
	100 kg	1936	1	0	1	0	2
	φ 2 1/2 kg	"	1	0	1	0	"
	5HP	"					"
	R.P.M 1800	"					"
	15HP	"	1	0	1	0	"
	R.P.M 900	"					"
		"	1	0	1	0	"
	2.75 KW	"	1	0	1	0	"
	1800 R.P.M	"	1	0	1	0	"
		"	1	0	1	0	"
		"	1	0	1	0	"
	1.2 KW	"	1	0	1	0	"
	2.0 KW	"	1	0	1	0	"
	2.5 KW	"	2	0	2	0	"
	5 KW	"	1	0	1	0	"
lar saw		1944	1	0	1	0	4
saw		"	1	0	1	0	"
		"	1	0	1	0	"

B. Auxiliary equipment (Collate)

Name of machine	Type of machinery	Capacity of machinery	Year of product
Sub-station equipment			
Transformer		3 phase 100 KVA 3300V/220 60 cycle	1938
"		3 phase 50 KVA 220/100V/220 100V	1931
"	Core type	1 phase 15 KVA 3300V/220 110V	1938
"	"	1 phase 15 KVA 3300V/220 100V	"
"	"	1 phase 2000 KVA 3300V/3300V	"
Voltage regulator		3 phase 100 KVA	1939
Oil circuit breaker		3 pole 600A 34500V	1938
"		3 pole 6900V 1500A	"
"		3 pole 11500V 400A	"
Motor generator		D.C. 15 KW 110V A.C. 25 HP 220V	1943
Switch board	Special high tension	6000 K.V.A 33000K 60 cycle	"
"	high tension	3900V 60 cycle	"
"	low tension		"
Lightning arrester		34500 V	"
"		3500 V	"
Storage battery		145 A hour	"
Synchronous condenser		3 phase 60 cycle 3300V 300 K.V.A	1941
Switch board	high tension	100A	1939
Oil switch	low tension	300A	"

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Heavy Equipment (Collateral plant)

Capacity of Machinery	Year of product	made in Japan	made in Brazil	Total	Bomb damage	Production Capacity of machinery	Remarks
3 phase 100 kVA 3300V/220 60 cycle	1938	1	0	1	0		building # 104
3 phase 50 kVA 220/100V/320 100V	1931	1	0	1	0		60 cycle
1 phase 15 kVA 3300V/220 110V	1938	2	0	2	0		"
1 phase 15 kVA 3300V/220 100V	"	2	0	2	0		60 cycle
1 phase 2000 kVA 3300V/3300V	"	4	0	4	0		60 cycle
3 phase 100 kVA	1939	1	0	1	0		"
3 pole 600A 34500V	1938	2	0	2	0		"
3 pole 6900V 1500A	"	2	0	2	0		"
3 pole 11500V 400A	"	10	0	10	0		"
DC 15 kW 110V AC 25 HP 220V	1943	1	0	1	0		"
6000 kVA 3300V 60 cycle	"	2	0	2	0		"
3900V 60 cycle	"	8	0	8	0		"
"	"	5	0	5	0		"
34500V	"	2	0	2	0		"
3500V	"	2	0	2	0		"
145A motor	"	54	0	54	0		"
3 phase 60 cycle 3300V 300 kVA	1941	2	0	2	0		building 104
111A	1939	2	0	2	0		
300A	"	3	0	3	0		

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Oil switch	high tension	3000A	1939	1
Transformer station equipment				
Transformer		3 phase 100KVA 3300V/220 110V	1938	2
"		3 phase 50KVA 3300V/220 110V	1937	1
"		1 phase 10KVA 3300V/220 110V	1938	2
"		1 phase 7.5KVA 3300V/220 110V	1937	2
Synchronous condenser		3 phase 50KVA 3300 A	1942	1
Switch board	high tension	3500V 20A	1940	2
"	low tension	250V 400A	1938	2
Oil switch	high tension	3 pole 3500V 300A	"	4
Transformer		3 phase 100KVA 3300 220V/220 110V	1936	4
"		1 phase 10KVA 3300V/220 110V	1938	3
Synchronous condenser		3 phase 50KVA 3300V	1942	1
Switch board	high tension	3500V 100A	1940	4
"	low tension	250V 400A	"	2
"	"	250V 200A	1940	1
Oil switch	high tension	3 pole 3500V 300A	1939	4
Transformer		3 phase 250KVA 3300V/220 110V	1940	3

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3 phase 100KVA 3300V/220 110V	1939	1	0	1	0	
3 phase 100KVA 3300V/220 110V	1938	2	0	2	0	60. cycle building volt trous station
3 phase 50KVA 3300V/220 110V	1937	1	0	1	0	
1 phase 10KVA 3300V/220 110V	1938	2	0	2	0	
1 phase 7.5KVA 3300V/220 110V	1937	2	0	2	0	
3 phase 50KVA 3300 A	1942	1	0	1	0	
3500V 20A	1940	2	0	2	0	
250K 400A	1938	2	0	2	0	
3 pole 3300V 300A	"	4	0	4	0	
3 phase 100KVA 3300 2200V/220 110V	1936	4	0	4	0	
1 phase 10KVA 3300V/220 110V	1938	3	0	3	0	
3 phase 50KVA 3300V	1942	1	0	1	0	
3500V 100A	1540	4	0	4	0	
250V 100A	"	2	0	2	0	
250V 200A	1940	1	0	1	0	
3 pole 3300V 300A	1937	4	0	4	0	
3 phase 250KVA 3300V/220 110V	1940	3	0	3	0	

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Transformer		1 phase 110 KV 800 KVA 6300V/220 110V	1937	4
Synchronous Condenser		3 phase 200 KVA 3300V	1941	1
"		3 phase 100 KVA 3300V		"
Switch board	high tension	200 KVA 60 cycle	1939	3
"	low tension	250V 800 A	1940	2
Oil switch	high	3500V 100A	1933	9
"	low	300V 500A	"	4
Transformer		3 phase 200 KVA 3300V/200V	1940	3
"		1 phase 10 KV 3300V/220 110V	1937	6
Oil switch		3 pole 3500V 200A	1934	1
"		3 pole 3500V 100A	"	1
Transformer		3 phase 100 KVA 60 cycle 3300V/220 110V	1941	3
"		1 phase 10 KVA 60 cycle 3300V/220 110V		
Switch board	high tension	3300V	1938	6
Synchronous Condenser		3 phase 50 KVA 3300V	1941	3
Switch board	low tension	250V 400A	1938	3
Oil switch	high tension	3500V 200A	1940	2
"	low	250V 300A	"	8
Transformer		3 phase 100 KVA 3300V/200V	1937	3

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	1 phase 110 KVA 6300V/220 115V	1937	4	0	4	0	
	3 phase 200KVA 3300V	1941	1	0	1	0	
	3 phase 100 KVA 3300V	"	"	"	"	"	
ion	200K.V.A 60 cycle	1939	3	0	3	0	
ion	250V 800 A	1940	2	0	2	0	
	3500V 100A	1933	9	0	9	0	
	300V 500A	"	4	0	4	0	
	3 phase 200KVA 3300V/200V	1940	3	0	3	0	
	1 phase 10KVA 3300V/220 115V	1937	6	0	6	0	
	3 pole 3500V 200A	1934	1	0	1	0	
	3 pole 3500V 100A	"	1	0	1	0	
KA 60 cycle Vol ₂		1941	3	0	3	0	Acid transformer station
60 cycle V	1 phase 70KVA 3300V/220 115V						
ion	3300V	1938	6	0	6	0	
	3 phase 50KVA 3300V	1941	3	0	3	0	
ion	250V 400A	1938	3	0	3	0	
ion	3500V 200A	1940	2	0	2	0	
	250V 300A	"	8	0	8	0	
	3 phase 100KVA 3300V/220V	1937	3	0	3	0	water lifting building

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Synchronous condenser		3 phase 100 3300V KVA	1941	1
"		3 phase 50 3300V KVA	"	1
Switch board	High tension	3900V 100A	1939	1
"	Low tension	250V 500A	1940	4
oil switch		3 pole 3300V 200A	1931	4
Transformer		3 phase 100KVA 3300V/220/10V	1937	5
"		1 phase 10KVA 2200 3300/210/10V	1930	3
Switch board	High tension	3500V 100A	1940	1
oil switch	"	3300V 200A	1933	3
Transformer		3 phase 100KVA 3300V/220V	1938	2
"		1 phase 10KVA 3300V/210 105V	1937	3
"		1 phase 3 KVA 210V/105V	"	1
"		1 phase 2 KVA 2080V/208V	1930	1
oil switch	High tension	3 pole 3300V 200A	"	1
Transformer		3 phase 75KVA 3300V/210V 1.5V	1938	1
"		1 phase 75KVA 3300V/210 105V	"	2
"		1 phase 3 KVA 2000V/111V	"	7

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3 phase 100 KVA 3300V	1941	1	0	1	0	
3 phase 50 KVA 3300V	"	1	0	1	0	
3900V 100A	1939	11	0	11	0	
250V 500A	1940	4	0	4	0	
3 pole 3.300V 200A	1931	4	0	4	0	
3 phase 100KVA 3300V/220/10V	1937	5	0	5	0	Gan cotton T.S
1 phase 10KVA 2200 3300V/210/105	1930	3	0	3	0	
3.500V 100A	1940	1	0	1	0	
3300V 200A	1933	3	0	3	0	
3 phase 100KVA 3300V/220V	1938	2	0	2	0	
1 phase 10KVA 3300V/210 105V	1937	3	0	3	0	
1 phase 3 KVA 210V/105V	"	1	0	1	0	
1 phase 2 KVA 2080V/208V	1930	1	0	1	0	
3 Pole 3300V 200A	"	1	0	1	0	
3 phase 75KVA 3300V/210V/105V	1938	1	0	1	0	
1 phase 75KVA 3300V/210V/105V	"	2	0	2	0	
1 phase 3 KVA 2000V/110V	"	7	0	7	0	

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Name of machine			
Steam system			
Feed pump	Washington type		1936
Boiler	Babcock type	250 HP	1936
Coal sender			"
Reduction gear		1000/2 ^M R.P.M	"
Boiler	Babcock	250 HP	1940
"	"Takuma"	320 HP	"
Feed pump			"
Centrifugal pump with motor		10 KW 3600 4.17 l/min	1940
Water supply system			
Centrifugal pump		head 15m 300 ton/h	1939
"		φ 2	"
motor		30 HP K.P.M 1000	"
Analytical table	wood		1940
Cement tester	whole set		1933
Coal crusher	motor driven HP		1916
Wheel brow	wheel distance 600 mm		1941
Crusher	"Shimazu"		1945
Powder crusher	491 mm high		1932
Electric fan	Wall fixing fan dia 76 inch		1933

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type		1936	1	0	1	0			75
250 HP		1936	4	0	4	0			"
		"	1	0	1	0			"
1800/2 ^M R.P.M		"	1	0	1	0			"
250 HP		1940	1	0	1	0			30
320 HP		"	4	0	4	0			"
		"	1	0	1	0			"
10 KW 3600 4.17l/min		1940	1	0	1	0			"
head 15m 300 ton/hr		1839	2	0	2	0			"
Φ 2		"	1	0	1	0			"
30 HP K.P.M 1800		"	2	0	2	0			"
		1940	5		5	0			Building # 304
		1933	1		1	0			
HP		1916	1		1	0			
stance		1941	1		1	0			
m		1945	1		1	0			
"		1932	1		1	0			
high		1933	1		1	0			
ing	bar dia 76 inch	1933	1		1	0			

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Vacuum pump	motor crowd $\frac{1}{4}$ HP	1940	2
Dryer	Did 435 m/m H 322 m/m	1940	1
Thermostat	Electric heating	1940	9
Analytical table		1941	13
Tenil strength tester	Schopper	1943	1
Sulphur bomb	J. E. S	1925	1
Powder crusher	motor dr $\frac{1}{4}$ HP	1935	1
Asphalt tester	J. E. S	1944	1
Shaper	H 1,200 m/m	1935	2
Hardnes tester		1945	1
Distillator	10 ^l /h dist w.	1932	2
Water seperator	centrifugal	1943	1
Screw Press	hand drawn	1935	1
Crusher		1915	2
Electric dryer		1940	7
Thermoregulator		1940	2
P. lower		1943	1
Thermometer tester			
Table	Wood	1916	4
Boulangervelocitimeter	B. B type	1916	1
"	"	1926	1
"	"	1941	1

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40	1940	2	2		
	1940	1	1		
	1940	9	9		
	1941	13	13		
	1943	1	1		
	1925	1	1		
HP	1935	1	1		
	1944	1	1		
	1935	2	2		
	1945	1	1		
	1932	2	2		
	1943	1	1		
	1935	1	1		
77	1915	2	2		
	1940	7	7		
	1940	2	2		
	1943	1	1		
	1916	4	4		
	1916	1	1		
	1926	1	1		
	1941	1	1		

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Water separator	Centrifugal	1000 m/m Dia. of cage	1933
Water metre			1944
Laundry machine	Drum	900 x 900 ^{m/m}	
Grauing machine	Motor driven	1/4 HP	1943
Kneading machine	Werner type	100 kg charge	
Carding machine			1904
Wheel barrow			1936
Vacuum dryer	"Emulpas"	steam heating	1944
Sawing machine	Band type		1907
Automatic lathe	L. 2.500	m/m	1902
	H. 240	m/m	
Planer	W. 400	m/m	1907
	L. 2.000	m/m	
Hydraulic Press	M.P. 2000R	stacker	1907
"	Ordinary	Press	
"	R.P. 350K	stacker	1930
"	upward	press	
"	T.P. 100K		
"	W.P. 100		
"	stroke	1.000 m/m	1907
Hydraulic pump	Horizontal	3 cylinder	
Leaf cutting machine	Hripp type		1941
Rolling mill	Roll	250 x 600	1939
Grazing drum	drum	1.600 x 900 m/m	
Screwing machine		1.500 x 900 x 1.860 ^{m/m}	1930
Gas Compressor	Tsukishima		1943
Vacuum pump	Hand driver	Piston type	
Oil circuit breaker		7.5 KW	1941

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gal	1000 m/m Dia. of cage	1933	5	5		
		1944	1	1		
my m 1900			1	1		
1/4 HP		1943	1	1		
Type 100kg cage			3	3		
		1904	1	1		
		1936	6	6		
ting		1944	1	1		Building
ce		1907	1	1		# 12
m		1902	2	2		ware house
		1907	3	3		
bel 12		1907	3	3		
ss elect 1000/m		1938	2	2		
ss			1	1		
m/m		1907	1	1		
l			1	1		
re		1941	3	3		
oo		1939	2	2		
m			4	4		
o my 1/4		1930	1	1		
er		1943	1	1		
er			2	2		
er			2	2		
	7.5 KW	1941	1	1		

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Electric dryer		21.0 KW	1941
Oil pump	Vertical		
Wheel barrow		500K load	
Hand pump	4 men operation		
Gun cotton separator	vertical dia 500 ^{mm} Depth 200 ^{mm}		
air heater		120 ^M /m of air	
Cooler	vertical pipe type		
Press	sucking dist 147 ^{mm} effective dist 150 ^{mm}		
Feed pump	Washington type		
Hand press	Fire fighting		
Transformer	single phase 60c	2200/220V 10. K.V.A	1937
"	" "	" 15 "	1935
"	" "	" 20 "	1906
Filter Press			
Transformer	single phase 60c	2200/220V 50 KVA	1914
"	3 phase 60c	" 60 KVA	1904
"	" "	" 15 KVA	1935
"	" "	" 120 KVA	1916
"	" "	" 200 KVA	1935
"	single phase 60c	10000/2200 V 250 KVA	1918
"	" "	2200/220V 50 KVA	1916
"	3 phase "	3300/220 V 50. KVA	1916

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	21.0 KW	1941	1	1		
			1	1		
	500K load		17	17		
			1	1		
tion			1	1		
500 ^{mv} m/m			1	1		
	120 ^M /m of air		1	1		
ype			4	4		
147 ^{mv} 150 ^{mv}			1	1		
ype			2	2		
ting			1	1		
se 60c	2200/220V 10.K.V.A	1937	8	8		
"	" 15 "	1935	3	3		
"	" 20 "	1906	4	4		
			4	4		
se 60c	2200/220V 50.KVA	1914	5	5		
loc	" 60 KVA	1904	3	3		
"	" 15 KVA	1935	1	1		
"	" 120 KVA	1916	2	2		
"	" 200 KVA	1935	1	1		
se 60c	10000/2200 V 250 KVA	1918	2	2		
"	2200/220V 50 KVA	1916	4	4		
"	3300/220 V 50.KVA	1916	3	3		

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Transformer	Single phase 60.C	10500/220V 250 K.V.A	1918
"	" "	" 300 KVA	1916
"	" 30.C	2200/110V 2 K.V.A	1905
"	" 60.C	2200/220V 4 K.V.A	1902
"	" 60.C	" 2 K.V.A	1902
"	" 30.C	" 5 K.V.A	1905
"	" "	" 10 K.V.A	1902
"	" 60.C	" 10 K.V.A	1933
"	" 30.C	" 1 K.V.A	1902
"	" 30.C	2200/220V 1 K.V.A	1902
"	" "	" "	1902
"	3phase 60.C	" 30 K.V.A	1907
"	Single phase 30.C	2200/110V 1 K.V.A	1902
"	" 60.C	2200/220V 2 K.V.A	1902
"	" "	" 3 K.V.A	1902
"	" "	" 4 K.V.A	1902
"	" 30.C	" 5 K.V.A	1905
"	" 60.C	1100/220V 7.5 K.V.A	1902

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2	10500/220V 250 K.V.A	1918	1	1		
	" 300 KVA	1916	3	3		
	2200/110V 2 K.V.A	1905	1	1		
	2200/220V 4 K.V.A	1902	10	10		
	" 2 K.V.A	1902	5	5		
	" 5 K.V.A	1905	3	3		
	" 10 K.V.A	1902	2	2		
	" 10 K.V.A	1933	1	1		
	" 1 K.V.A	1902	1	1		
	2200/220V 1 K.V.A	1902	2	2		Building # 62
	" "	1902	5	5		
C	" 30 K.V.A	1907	2	2		
2308	2200/110V 1 K.V.A	1902	1	1		
C	2200/220V 2 K.V.A	1902	1	1		
	" 3 K.V.A	1902	3	3		
	" 4 K.V.A	1902	1	1		
C	" 5 K.V.A	1905	1	1		
C	1100/220V 7.5 K.V.A	1902	2	2		

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Filter Press			
Transformer	single phase 60c	2200/220V 50 K.V.A	191
"	3phase 60c	" "	190
"	" "	" 15K.VA	193
"	" "	" 120.KVA	1916
"	" "	" 200 K.VA	193
"	single phase 60c	10.000/2200V 250 K.VA	1916
"	" "	2200/220V 50 K.V.A	1916
"	3phase "	3300/220V 50. K.VA	1916
"	single phase "	10.000/220V 250 K.VA	1916
"	" "	" 300. KVA	1916
"	" 30.c	2200/220V 2. KVA	1905
"	" 60.c	2200/220V 4. KVA	1902
"	" "	" 2 KVA	1902
"	" 30.c	" 5. KVA	1905
"	" "	" 10 KVA	1902
"	" 60.c	" 10. KVA	1935
"	" 30.c	" 1. K.VA	1902
"	" "	" "	1902
"	" "	" "	1902
"	3phase 60.c	" 30 K.VA	190
"	Single phase 30.c	2200/220V 1 K.VA	1902

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			4	4		
4660	2200/220V 50 KVA	1914	5	5		
"	"	1904	3	3		
"	15 KVA	1935	1	1		
"	120 KVA	1916	2	2		
"	200 KVA	1935	1	1		
"	10.000/2200V 250 KVA	1910	2	2		
"	2200/220V 50 KVA	1916	4	4		Building
"	3300/220V 50 KVA	1916	3	3		# 62
"	10.000/220V 250 KVA	1918	1	1		
"	300 KVA	1916	3	3		
30.0	2200/220V 2 KVA	1905	1	1		
60.0	2200/220V 4 KVA	1902	10	10		
"	2 KVA	1902	5	5		
30.0	5 KVA	1905	3	3		
"	10 KVA	1902	2	2		
60.0	10 KVA	1933	1	1		
30.0	1 KVA	1902	1	1		
"	"	1902	2	2		
"	"	1902	5	5		
60.0	30 KVA	1907	2	2		
30.0	2200/220V 1 KVA	1902	1	1		

Transformer	single phase 60c	2200/220V 2 KVA	1902
"	"	" 3 KVA	1902
"	"	" 4 KVA	1902
"	30c	" 5 KVA	1905
"	60c	1100/220V 7.5 KVA	1902
"	"	2200/220V 7.5 KVA	1902
"	"	3300/220V 5 "	1940
"	"	" 10 "	1938
Synchronous Condenser	3 phase	" 20 "	
"	"	" 10 "	
Oil circuit breaker		1.500V 400A	
"		3.500V 400A	
Transformer	single phase 60c	3.300/220V 5 KVA	
Kneading machine	Werner	100Kg charge	
"	"	50Kg "	
Pump	motor driven	7.5HP centrifugal	
Synchronous Condenser			
Blower	Sirocco	dia 430	
Oil Switch		100 A	
Switch box		10 KW	
motor	"osaka"	220V 50/75	

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2200/220V 2 KVA	1902	1	1			Building # 42
" 3 KVA	1902	3	3			
" 4 KVA	1902	1	1			
" 5 KVA	1905	1	1			
1100/220V 7.5 KVA	1902	2	2			
2200/220V 7.5 KVA	1902	2	2			
3300/220V 5 "	1940	9	9			Building # 217
" 10 "	1938	5	5			
" 20 "		2	2			
" 10 "		1	1			
1.500V 400A		1	1			
3.500V 400A		1	1			
3.300/220V 5 KVA		8	8			Building # 235
100kg charge		1	1			
50kg "			3	3		
		1	1			
		1	1			
		2	2			
100 A		6	6			
10 KW		2	2			
220V 50A		1	1			

sec

rel

430

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motor	Yasukawa	220 V 50hp	1937
motor	Osaka	" 75hp	1916
"	"	" 40hp	
"	"	" 20hp	1917
"	Fuji	220 V 3hp	
"	Toyo	" 10 "	1935
"	G. E.	" 10 "	
"	"Osaka"	50hp	
Portable mixer	Satake 3HP		1943
Reduction gear	H.S 1000 R.P.M L.S 200"		1942
Switch box		220 V 5.5 K.W	1944
motor	"Matsushita"	1420 R.P.M 3hp	1943
oil switch	"Kyowa"	220 V 3hp	1942
motor	"G. E."	" 5.5hp	1908
"	"Okumura"	" 10hp	
"	"Shibaura"	" 50hp	1906
"	"A. E. G."	" 100hp	1913
Switch box.	Tokyo	10. K.W	1941
"	Narada	30. K.W	1944
"		5 hp	1940

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	220 V	50 hp	1937	1	1	
	"	75 hp	1916	1	1	
	"	40 hp				
	"	20 hp	1917	1	1	
	220 V	3 hp		1	1	
	"	10 "	1935	1	1	
	"	10 "			1	
		50 hp		1	1	
			1943	2	2	
"			1942	2	2	
	220 V	5.5 K.W	1944	9	9	
	1420 R.P.M	3 hp	1943	4	4	
	220 V	3 hp	1942	6	6	
	"	5.5 hp	1908		1	
"	"	10 hp		1	1	
"	"	50 hp	1906	1	1	
"	"	100 hp	1913	1	1	
	10	K.W	1941	2	2	
	30	K.W	1944	1	1	
	5	hp	1940	2	2	

Building
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Switch box		2.5 KW	1943
"		3 HP	"
"		15 "	"
"		5 "	"
"	"Yachiyo"	60 A	"
"	"Tokyo"	2 KW	"
"	"Hirosewa"	7.5 KW	1949
Nuclear condenser	3 phase 60C	3300V 100KVA	1941
"	"	50 "	"
Switch box	"Harada"	3.25 KW	"
"	"Shibana"	30 A	1942
"	"	25 A	"
"	"Tokyo"	10 KW	"
"	"Kogawa"	20 HP	1943
"	"	30 "	"
"	"	15 "	"
"	"Harada"	5 "	1944
"	"	2 "	"

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	2.5 KW	1000	1	1	
	3 HP	.	1	1	
	1A	.	4	4	
	2	.	1	1	
	60 A	.	16	16	
	2 KW	.	4	4	
	7.5 KW	1000	1	1	
60C	3300V 100KVA	1941	1	1	
	50	.	5	5	
	3.25 KW	.	10	10	
	30 A	1942	6	6	
	25 A	.	1	1	
	10 KW	.	1	1	
	20 HP	1903	1	1	
	30	.	2	2	
	15	.	2	2	
	5	1940	1	1	
	2	.	4	4	

Building
#335

Building
#337

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Switch box	"Hiroseawa"	2 KW	1941
"	"	2 KW	"
"	"	5 "	"
Centrifugal Pump	Electric driven Cr-Ni	dia 50 mm head 20 m	"
Dump	Vertical Cylinder	dia 50 mm head 20 m	"
Motor	"ch.no" 3 phase and, closed	1730 R.P.M. 2 KW	"
"	"Matsushita"	1620-1715 R.P.M. 31/2	"
Centrifugal Pump	Cr-Ni	dia 40 mm head 20 m	"
Motor	"ch.no. closed double cover	7.5 KW 1750 R.P.M.	1942
"	"shibaura" closed double cover	1730 R.P.M. 2.75 KW	1940
"	"ch.no. closed 3 phase and	" 3 KW	"
"	"	" 5 KW	"
Centrifugal Pump	"shibaura. ARIRON pic 50 head 20 m	200 l/m	1942
"	"ch.no. closed Dia 40 head 20 m	160 l/m	1941
Motor	"ch.no. closed	SIP	1939
Vacuum Pump	"shibaura. iron Nash Type	Vac 370 mm	1942
Centrifugal pump	Cr-Ni pic 50 head 20 m	200 l/m	1941
"	Electric driven 3.75-KW dia 50	"	1939
Switch box	"Hiroseawa"	2 KW	1942
"	"	5 hp	"
"	"	3 hp	"
"	"	3 KW	"

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"	2.5 KW	1941	2	2
"	2.5 "	"	2	2
"	5 "	"	2	2
iron	dia 50 mm head 20 mm	"	4	4
red	dia 50 mm head 20 mm	"	2	2
all	1730 R.P.M 2 KW	"	2	2
d	1430-1715 R.P.M 31/2	"	6	6
"	dia 40 mm head 20 mm	"	6	6
L	7.5 KW	1942	1	1
ner	1750 R.P.M	1940	2	2
over	1730 R.P.M 275 KW	"	5	5
red	3 KW	"	3	3
d	5 KW	"	3	3
IRON	200 g/m	1942	1	1
0 m	160 g/m	1941	3	3
all	51 P	1939	2	2
20 m	Vac 370 $\frac{m}{m}$	1942	1	1
red	200 g/m	1941	2	2
iron	"	1939	2	2
e	2 KW	1942	1	1
d 20 m	5 hp	"	1	1
ven	3 hp	"	1	1
"	3 cut	"	2	2

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Centrifuge Pump	Electric driven N No	Dia 50 mm head 20 m	1941
Pump	Vertical cylinder	Dia 50 mm workshop	"
Motor	"chuo" 3 phase ind close.	1730 R/PM 2 KW	"
Centrifuge	"Motus kite	420-1715 R/PM	"
Centrifuge Pump	cr. Nr	Dia 40 mm head 20 m	"
Motor	"chuo closed double cover	1750 R/PM 2.5 KW	1942
"	"shikaura" closed double	1730 R/PM 3.7 KW	1940
"	"chuo closed 3 phase ind	" 3 KW	"
"	"	" 5 KW	"
Centrifuge Pump	"shikaura Airon dia 40 head 20 m	" 200 l/m	1942
"	Dia 40 head 20 m	5 ft	1941
Motor	"chuo" closed	vac 370 mm Hg	1939
Vacuum Pump	"shikaura Airon wash type	200 l/m	1942
Centrifugal Pump	CV-Nr dia 50 head 20 m	"	1941
"	Electric driven Dia 50 ST	2 KW	1939
Switch box	"Nippon"	5 ft	1942
"	"	5 ft	"
"	"	3 ft	"
"	"	3 KW	"
"	"Nippon"	20 ft	1941