Padlock 5,000 sets

Motor Dynamo & ect. for Railway Use

10 sets

(F) Status-Quo of Operation: (Actual Production in June 1946)

Magneto

Scale

2,717 sets

Ignition Plug

Insulating Material, 7,305 pcs.

Electric Wire

293 Kg.

Scale

700 sets

(G) When Operation Begun after Conversion:

On Sept. 1, 1945 the production was converted to that of civilian use and the permission for conversion was officially given as at Dec. 24, 1945.

- (H) Installations Newly Reguired for Conversion:
 - (a) Machinery Newly Required for Conversion:

Machine Tools

2 sets

Industrial Machines 2 sets

Wire Drawing Machines 65 sets

(b) There are 455 sets of machines now being installed, against which
352 sets or 77 per cent are necessary for executing the production scheme in future.

(I) Production Capacity and Its Rate of This Factory Against Actual Total

Production Capacity in Japan:

d	ctual Total Pro- uction Capacity in apan (per month)	Production Capa- city of This Factory (per month)	Rate of This Factory
Magneto for			
Agnicultural and Fishing Boat Engin	e 550 sets	500 sets	90 %
Magnets for			
Rear Car	-1,600 "	1,500 "	95 %
Magneto for Truck		700 "	

- (J) Reason for Retention:
 - (a) Having fifteen years' experience as a manufacturer of magnetoes, this factory has supplied the magnetos in a great quantity for aguricultural machines, fishing boats and auto rear car engines since before the war.

 During the war the factory manufactured chiefly the magnetos for aeroplane engines, but immediately after the termination of the war the production was converted again to that for the civilian use. Especially regarding the magnetoes for agricultural machines, fishing boat and auto rear car engines, this factory is now supplying them in 100 % because the other factories which were suffered from the war calamity are not reconstructed yet.
 - (b) In order to increase the production of foodstuffs and to secure the

- (a) Having fifteen years' experience as a manufacturer of magnetoes, this factory has supplied the magnetos in a great quantity for aguricultural machines, fishing boats and auto rear car engines since before the war.

 During the war the factory manufactured chiefly the magnetos for aeroplane engines, but immediately after the termination of the war the production was converted again to that for the civilian use. Especially regarding the magnetoes for agricultural machines, fishing boat and auto rear car engines, this factory is now supplying them in 100 % because the other factories which were suffered from the war calamity are not reconstructed yet.
- (b) In order to increase the production of foodstuffs and to secure the transportation means it is quite an important problem to increase the production of engines for agricultural machines, fishing boats, auto rear cars and trucks. At present, however, the narrowest path in this problem lies in the production of magnetoes and accordingly the existence of this factory that is now making its way to increasing the production of magnetoes is significant for the industrial restoration of Japan.
- (c) Besides the magnetoes, the ignition plug, insulating material, electric wire, scale, padlock and motor dynamo for railway use which are now being manufactured by this factory or schemed to manufacture in future, are all indispensable to the reconstruction of Japan. For this reason, therefore, special considerations and arrangements to exclude this factory from the object of reparation factories are greatly solicited.

A. Name of Company

Mitsubishi Blectric Manufacturing Co., Ltd.)

B. Name of Factory

Himeji Kojo (Himeji Factory)

C. Address of Factory

No.840, Chiyoda-machi, Hemeji City, Hyogo Prefecture

D. Added Explanation

The Himeji Factory of the Mitsubishi Electric Manufacturing Co., Ltd., is an auxiliary factory of the Kobe Works and is under the latter's management.

The Kobe Works was established in 1921 to engage in the manufacture of various electrical machinery for civilian use but the demand for such machinery increased yearly to such an extent that the restricted capacity of the works became insufficient to meet this demand so that the need to increase manufacturing capacity was clearly recognized. Furthermore, the Kobe Jorks, being completely surrounded by other factories and dwellings, both large and small, the danger of air bombing during the war became an important factor in the decision of the management to decentralize a part of the works. For these urgent reasons, on idle factory in Himeji was purchased in 1943 and the production of magnetos, the menufacture of which could most conveniently and easily be separated from the parent plant, was transferred there together with the manufacture of insulating materials and small generators for wireless equipment.

Magnetos had been made in the Kobe Works since 1932 for use with combustion engines for agricultural machinery, fishing vessels, trucks and motor cycles. Moreover, all of the plant facilities and equipment for the Himeji Factory was moved from the Kobe Works utilizing machines already available at the parent works and also the majority of the workmen in the new factory were men transferred from the Kobe Works.

The Himeji Factory was therefore not newly constructed during the war for the purpose of menufacturing war equipment but was established because of the lack of space in the parent works to make an essentially civilian product (Magnetos for the automotive industry) which also happended to be required for aircrafts during the war as well.

has been for civilian use and as shown in detail in the attached tables, production has increased to such extent that a large portion of the entire national demand is being met by the Himeji Factory.

Magneto Production Chart.

(Unit %1,000)

	(excluding				eto only		
	THE PERSONAL PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PARTY AND P	tories	100	thly roduct	Programme and the second of th		
	Monthly roduction (in 1.00)	Grders Booked (in al.000)	Unit		air craft in ercent		Remark
	Monthly	of the goar	average			at the end of the year	
1937	1,326	31,737	v				(A) Manufacturing of
1938	* 2,032	* 55,272	794	43	0% (0%)	773	magnatos was begun
1939	2,737	81,754	984	62	0% (0%)	1,311	of lack of data.
1940	3,150.	91,038	1,352	97	0% (0%)	" 817	this chart gives
1941	2,515	72,000	1,008	75	5% (3%)	1,214	deta from 1937. (3)
1942	3,254	- 100,821	859	79	20%(12%)	2,126	Production of magnetos for sir
1943 Jan.	2,282	114,784	1,247	183		2,094	eraft was begun 1940 and gradually
Feb.	2,394	116,277	1,555	189		2,152	formed an increasing percentage of the
Mar.	8,441	115,332	761	31		2,228	total volume, but magnetos for the
APT.	2,492	120,625	1,066	198		2,317	automotive industry
Eay	4,404	127,239	311	24	1943	2,375	remained the major
June	2,978	172,671	466	48	45%	4,280	part of the production
July	4,017	181,504	528	88	(25%)	4,298	The percentages shown
ug.	2,848	184,766	1,448	400		4,905	on yen value. The
.opt.	7,426	192,100	757	159		6,717	percentages in the
Got.	3,215	195,212	930	133		7,421	units produced.
Nov.	3,713	200,938	387	124		9,683	

			orks		Ma	gneto only		
		f	ctories		nthly Produc			Remark
		Froduction (in %1.000)	Grders Booked (in %1.000)	Unit	Total value (in \$1.000)	Magneto for air craft in Percent		
	Doc.	4,608	236,766	1,331	327		9,944	(C) As shown in the chart, because of the
	1944 Jan.	5,056	238,434	815	150		9,794	greatly increased orders booked by the Kobe Works and the impossibility of
								increasing its plent capacity, the pro- duction of magnetos was transferred in Dec. 1943 to the Himeji Factory
	Feb.			500	176		10,188	(D) Since removal to
	Mor.			1,122	292		14,671	the Himeji Factory was merely a
	Apr.			2,028	409		14,331	transfer of existing
	May			1,801	280	1944	14,188	Robe Works, immediate
	June			2,484	702	55%	14,171	production was
	July			1,344	305	(33%)	24,592	figures beginning in
	us.			1,378	206		25,902	1944.
	sopt.			2,658	578		25,770	
	oot.			704	85		27,459	
	Eov.			1,966	307		26,807	
	Dec.			2,295	559		27,648	
	1945 Jan.			1,556	423		27,225	
	Feb.			2,139	459		26,765	
	Mar.			1,335	240		28,381	

	(excluding	e SOPES suriliery			meto only		
	,	ectories)	Mo	athly Product	tion	orders	Femark
	Production (in \$1.000)	Booked (in al.000)		Total value (in %1,000)	Magneto for air craft in Percent	Sooked (in El.000)	
1945 Apr. May June July			2,220 2,064 2,194 1,077 1,194	498 395 304 237 522	1945 80% (30%)	27,944 28,974 26,811 26,374 25,852	
Sept. Oot. Nov. Dec. 1946 Jan. Yeb. Mar. Apr. May June July Aug.			0 381 269 486 529 831 1,201 1,858 2,347 2,717 2,519	920		0 719 1,463 1,514 7,240 8,062 10,082 13,140 12,494 13,198 12,649	(F) That unfilled orders of the end of august 1946 amount to 12,649,000 ab show in the chart indicate the importance of the production of our Himeji Factory in the

MITSUBISHI ELECTRIC MANUFACTURING CO.HIMEJI FACTORY 840 CHIYODAMACHI, HIMEJI, HYOGO-KEN

March 5, 1946.

To:

Subject: petition for release of our machine equipments for our production of essential civilian commodities.

This is to request you to approve the release of our machines which are now under custody for the reparation purpose by the directive issued by the supreme Headquarters of the Allied powers. The machines hereby applies are the minimum number that is indispensable for the production of the essential civilian commodities for which we have been authorized by the Headquarters in charge.

We beg to call your attention to our present situation

as follows:

1) We began the peace-time production of the under-mentioned articles after the termination of the war, and have been permitted for reconversion for resumption of civilian production by the Sixth Army dated December 24th, 1945(Licence No.333)

Articles Permitted

1) Magneto

2) Ignition plug

scale

4) Wire

We are making every effort to increse our production of these, not only producting all the insulators necessary for these articles, but also supplying all the insulators for the civilian commodities made by our sistercompany.

Our factory is the only one that has not been bombed in Himeji area and in the production of ignition apparatus, we are the only one maker in the western half of Japan, Before the war we produced about half the amount of ignition apparatus made out in all Japan, and now we have been requested our earnest and conscientious exertions for social improvement of New Japan, by the radical promotion of our products, as the makers of the same line mostly have quitted the production since the cessation of the war.

2) Number of Machines in our Factory and Applies Machines.

Machines in the factory----455ea.

Machines applied to release -- 352ea.

The list of machines is per attached sheet.

3) Re: the articles produced by our factory in detail.

Our magnetos are for:

1) Ignition apparatus of agricultural engines
2) - of fishing boats engines
3) - of auto-rear cars
4) - of automobiles

we have a long experience in these production and now we have accepted our customers orders for the maximum production we can manufacture by this september and theresfter, according to our plan.

The list of the orderers and the amount we are ordered is as per attached sheet.

per attached shee (REFERENCE)

The makers of the same line before the end of the war

A) Sawafuji Elec. Mac.Mfg.co. (Totyo)

B) Far-East - - (Tokyo)

C) 2nd Home-Made - (Tokyo)

D) Ohtake - - (Nagoya)

E) Magnet Mfg. Industrial Co. (Kobe)

F) Mitsubishi Elec. Mfg.Co. (our company)

of the above-mentioned factories, the three (A:B:C:) were completely destroyed by bombing and have not yet recovered; other two have quitted the production after the war.

This is the situation of our business in Japan at present. We hereby beg again to request your thorough investigation and your kind consideration.

2) IGNITION PLUGS

Our plugs shall be supplied by june this year though they are now in a tentative production. The researches for fixing aircraft plugs to the ones for vehicles and for the production of the cheap and good plugs for the engines of both agriculture and fishing boats are being progressed in our laboratory.

We have a considerable amount of order of these plugs from various parts of our country, but will detain to fulfil it till we succeed in producing the best ones.

We have succeeded in a trial production of scales for civillian use and for the shops and they are on the point of mass production on we have confidence to make at least 5,000 auto-scales per month

(Under present situation 20,000/month are necessary in Japan)
we are now making watersupply-meters and gas-meters for
the City of Kure and the Osaka Gas Company.

4) TRE

Our main office at Tokyo is now contracting the elevatorestablishment for the occupational Forces that requires a
great amount of wire. The manufacture of this necessary
amount of wire has been permitted by the SCAP and our factory
will work for drawing, covering and enamelling the wire, by
removing a part of the equipments of the Tokyo wire Mfg.
Industry, our subsidiary, to ours. Some wire-drawing machines
has begun to work and covering and enameling, too, will be
begun shortly.

N.B. other machines necessary for this purpose will be

manufactured in our plant.

5) INSULATIONS

we are manufacturing all the insulations of had rubber and phenol resin products for magnetos and ignition dynamos, and besides that, we are supplying to all our sister companies the micanite plates necessary for the civilian production.

The production plan is as per attached sheet.

6) AMOUNT OF MATERIAL WE HAVE

We have sufficient staple material to run the production for at least 12 months under our future production schedule per attached sheet. We are sure to get other sub-material and other minor material and we are glad to say that we have no bottleneck in our production during this period of 12 months forthcoming.

special steel		uantity 96	(ton)
steel		124	
copper prawing		38	
Light Alloy		14	
Aluminum Ingot Aluminum Casting &	Fourging	68	
cast Iron		1	
Casting Copper		2	
Wire		60	
Lead.		4	
Tin		4	

7) NUMBER OF OUR EMPLOYEES

401 employees on February 28th, 1946

(Male 320: Female 81)

The employees required in September this year according to our production schedule, is about 1,200 in number, At present about 200 men applies to work for us per one month and 150 are adopted. Almost all the factories in Himeji district have been destroyed by bombing during the war and the necessary number of them are easy to obtain.

rrusting that the above poor information will suffice to clarify the actual condition of our civil economy and the position of our plant, for the welfare of the public, which has to be immediately replenished in order to meet the requirements, we would request you to kindly consider our petition made hereabove for releasingpart of the machines in our factory, Incidentally, kindly note that all the machines kept here are being safely guarded on our responsibility.

Thanking you in anticipation, meanwhile, we are,

yours respectfully,

Ken Okubo.

Chief of Himeji Factory, Mitsubishi Electric Manufacturing Co., Ltd. Copy

HEADQUARTERS SIXTH ARMY Military Government section

File:MG 333

Date: 24 December 1945

SUBJECT: permit for Reconversion from War production and for Resumption of Production of Essential Civilian Commodities.

TO

Mitsubishi Electric Manufacturing Co.Ltd.,

(Name & Address of Firm)

Himeji Factory,

840 Chiyoda-Machi, Himeji City, Hyogo Prefecture.

- l. In accordance with the provisions of paragraphs 3 a and 3 b of Directive No.3 from the Supreme Commander for the Allied Powers, dated 22 September 1945: Memorandum for the Imperial Japanese Government, Subject: Reconversion of Wer production Plants to Peacetime Production, dated 28 October 1945: and under authority granted this Headquarters by CINCAFPAC Radio ZAX 6197 dated 3 Octover 1945, you are authorized to commence operation of your plant, and to manufacture the essential civilian commodities listed in Annex No.1 to this permit.
- 2. This permitsgrants authority only to operate. The acquisition of materials, parts, and sub-assemblies, as well as the disposition of finished products and establishment of sales prices, will be in accord with the regulations of the Imperial Japanese Govornment.
- 3. At the end of the first month of operation, and at the end of each three-month period thereafter, until notified to the contrary by this Headquarters a report will be made to the Commanding General 1 corps, Headquarters Osaka Attention: Military Government Section.

 This report will be written in English and Will list each item, by name, type, and quantity produced by each factory, subsidiary, or sub-contractor operating under the provisions of this permit. This report will be delivered to Corps Headquartors not later than fifteen(15) days after the conclusion of the period to which the report pertains.

(Singed)

GEORGE D. SEARS

colonel, Infantry

Military Government Officer

Info Copios To:

GHQ, SOAP (Attn: E.& S. Sec)

CG I Corps, (Attn: MG Sec.)

Imperial Japanese Gov't

(6th Army Jap. Liaison Office, Kyoto)

I Incl:

Annex No. 1

HEADQUARTERS SIXTH ARMY Military Government section APO 442

24 December 1945

ANNEX NO. 1

Permission is granted to Mitsubishi Electric Mfg.Co.Ltd., Himeji Factory, 840 Chiyoda-Machi, Himeji City, Hyogo Prefecture to produce the following items listed below:

- a. Magnetos.
- b. Ignition plugs.
- c. Wire.
- d. Scales.

(Nothing Follows)

D. S. LOCKIE capt, F. D.

Future Plan of Products

Item	Jan/146 produced)	Feb. (produced	Mar.	Apr.	May	June	July	Aug.	sep.	oct.	Nov.	Dec.
	373 (Pieces)							4,700				
Ignition plug	(Pieces)					200	500	2,000	4,000	6,000	8,000	10,000
Wire	12 (Kgs.)	176	9,570	12,750	17,500	73,500	163,650	155,200	172,50	172,50	172,500	172,50
Weight Measure	(Pieces)	33	100	. 200	400	800	1,400	2,000	2,600	3,300	4,000	5,000
Water Meter	(Pieces)							50	100	500	1,00	0,000
Insulation	2,495 (Pieces)	2,591	3,300	4,300	7,000	8,500	10,000	12,000	14,000	15,000	15,000	15,000
Amount	256 (¥1,000)	511	1,060	1,427	1,741	3,125	3,620	4,475	5,104	7,768	8,208	8,36
Workers	386	388	410	460	590	740	890	1,040	1,200	1,200	1,200	1,200

Order List for our Magneto (On the end of Feb. 1946)

Name of Orderer	uantity	Name of Orderer	antity
Tomono Tekkosho (Tokyo)	2,720	Yoshida Shoko K.K. (Osaka)	300
Yamaoka Nainenki K.K. (Osaka),	500	Okada Jidosha Co. (Kanazawa)	2,000
Haneda Kogyo K.K. (Tokyo)	940	Yoshida Jidosha Seisakusho (Okayama)	600
Hatsudoki Seizo K.K. (Osaka)	3,000	Soeki Hatsudoki Seisakusho (Osaka)	500
Mitsubishi Jukogyo K.K (Tokyo)	. 6,500	Mitsui seiki K.K. (Tokyo)	600
Mitsubishi Jukogyo K.K. (Okayama)	5,200	Nichibei Jidosha K.K. (Osaka)	2,000
Wakamatsu Motor Seisakusho (Nagoya)	270	Yagyu Kogyo K.K. (Fukushima)	600
Yamaoka Nainenki K.K. Hokkaido Branchi (Asa	higawa)	Kawagoe Kogyosho (Kobe)	200
Toyo Kogyo K.K. (Hiroshima)	4,600	Zem Nippon Kogata-jidosha Kumiai (Osaka)	6,000
Anzen Jidosha K.K. (Osaka)	3,000	Iwayama shoten (Osaka)	2,000
Yamaguchi Kogyo K.K. (Yamaguchi)	400	Kato Denji shokai (Nagoya)	350

	1
1	
	1
	7
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	V
	1.

Name of Orderer	Quantity
Showa Denki Kogyosho (Osaka)	300
Takemura Shokai (Osaka)	2,000
Others	2,310
Total	47,090

(1) Present Machine tool Equipment

Name of Equipment	Quantity	Machines indispensable for production
1. Horizontal lathe without lead scrow	70	41
2.Horizontal lathe with lead scrow, up to looom/m onter distance	51	42
3. Horizontal lathe with lead scrow, above loom/m onter distance	4	3
4. Turret lathe with vertical turret axis	33	27
5. Turret lathe with horizontal turret axis	11	3
6. Automatic lathe	3	3
7.centering Machine	1	1
8. Vertical horring and torning machine	0	0
9. Horizontal horingand drilling machine	2	2
LO. Radial drilling machine	4	2
ll.vertical drilling machine	61	40
2. Jig horing machine	0	0
3. Tapping and threading machine	32	27
14.Gear cutting and hobbing machine	7	7
.5. Honing machine	0	0
6. Planing machine	1	1
17. Shaping machine	7	7
18. sloting machine	4	3
19. Horijontal cylindrical grinding machine	11	11
20. Vertical spindle surface grinding machine	9 0	0
21, Horizontal spindle surface grinding machine	4	4
22 Centerless grinding machine	1	1
23. Tool grinding machine-	1.	1
24. Gear grinding machine	0	0

	Name of Equipment	Quantity	Machines indispensable for production
25.	Plain milling machine	22	17
26.	vertical spindle milling machine	26	18
27.	universal milling machine with horizonta spindle up to 80m/m (in front hearing)	1 5	4
28.	universal milling machine with horizonta spindle above 80m/m (in front hearing)	1 0	0
29.	Die sinking machine	0	0
30.	Broaching machine	1	1
31.	Shring and punching machine	23	17
32.	sheel houning and holding machine	2	2
33.	Spindle press	0	0
34.	Forging press	0	0
35.	Horizontal forging machine	0	0
36.	Hammer operated mechanically	0	0
37.	" pneumatically	0	0
38.	" electrically	0	0
3 9.	" by steam	0	0
40.	Hack saw .	1	1
41.	Other saming machine		
4	machine not listed above	67	66
		455	352

(2) Minimum number of our equipments to be assigned to Each Shop

Name of Equipment	Size or Type	No.	Magne to Shop	scale	Ignition	Insulator	Tool Shop	Repairing
Bench Lathe		3 1	8	3	18		2	-
Lathe	40"	18	13	1	1	1	2	
	67-011	34	17	7	1		7	2
	8, -0,	3	1				1	1
Turret Lathe	No.1	8		3	5			
	No.2	9	5	4				
	No.4	8	6	1	1			
	No.5	5	5					
Automatic Lathe		3	2		1			
Centering Machine		1	1					
Boring Machine		2					2	
Radial Drilling Machine		2						
Bench Drilling Machine		18	9	4				

.:

Tame of Equipments	Size or Type	No.	Magneto	Shop	Ignition Plug Shop	Insulator	Tool	Repairin
Bench Drilling Machine	1 SP	2	2					
	2 SP	2	1				1	
	3 SP	2	2					
	4 SP	13	8	4			1	
ll Geard Upright Drilling Machine		3			1		1	1
apping Machine		8	6	2				
hread Milling Machine		19	5		14			
ear Shaping Machin	•	7	3	3			1	
laning Machine		1					1	
haping Machine		7	3				3	1
lotting Machine		3	1				2	
illindeal Grinding Machine		8	5				3	
nternal Grinding Machine		3	2				1	

	Name of Equipment	Size or Type	No.	Magneto	Shop	Ignition Plug Shop	Insulator	Tool	Repairin
	Surface Grinding Machi	200	4	2				2	
	Centerless Grinding Machine		1	1					
	Tool Grinding Machine		1						1
	Bench Milling Machine		7	1	5 .			1	
	Plain Milling Machine	No. O	2	1			1		
		No. 1 1,	/2 3	2	1				
		No. 2	5	3		1		1	
	Vertical Milling Machi	ne No. 1	1/2 7	4	1			2	
		No. S	9	5	1			2	1
	" No.	No. 3	1	1					
-		No. 4	1					1	
	Universal Milling Machine	No. 2	3					2	
	Tool Milling Machine		1					1	
	Broaching Machine		1	1					
	Punching Machine		4	1	1		2		

Name of Equipment	Size or	No.	Magneto	Shop	Ignition Plug Shop	Insulator	Tool	Repairin
Crank Press		13	7	4	2			
Hydraulic Press		2	2					
Hack Saw		1						1
Gear Lapping Machine		2	2					
Engreving Machine		2	1				/	
Hydraulic Press		30	1			28		1
Coil Winding Machine		15	15					
Condenser Paper Coilling Machine		2	2					
Mill		7				7		
Crasher		5				5		
Role		1				1		
Insulating paper Making Machine		2				2		
TOTAL		352	158	45	45	49	45	10

3-1 Numburer of Machine Equipments Workedout on the Bases of their Working Hours.

(A) Production Schedule per month

magneto 7,000 pices ---- Magneto Shop

Weight Mesure 5,000 ")---- Scale Shor

Water Meter 1,000 "

Ignition Plug 10,000 " ---- Ignition Plug Shop

N.B. This production is aimed at for the end of this year.

(B) Working Hours of one machine 200 hours (8 hours a day, 25 days a month)

(C) Magneto Shop

		Number of	Machines
Name of Equipment	Total working Hours	Required	Applied
Bench Lathe	1644	8	8
Lathe (4'-0")	2680	13	13
" (6'-0")	2180	11	11
Turret Lathe (No.1)			
" (No.2)	900	5	5
(No.4)	1516	8	9
" (No.5)	1500	8	9
Automatic Lathe	280	2	2
Centering Machine	75	1	1
Bench Drilling Machine	1620	8	8
Multiple Spindle "	2814	14	14
All Geard Upright Drill			
Tapping Machine	1660	8	6
Thread milling Machine	1000	5	5

Name of Equipment	Total working hours	Number of	Machines
		Required	Applied
Gear Shaping machine	520	3	3
Shaping Machine	850	4	4
Slotting machine	185	1	1
Cilinical Grinding Machine	980	5	5
Internal "	280	2	2
Surface "	820	4	2
Centerless "	100	1	1
Bench willing Machine	218	1	1
Plain Milling Machine (No.2)	1120.5	6	6
Vertical " (No.2)	1826.5	9	9
" (No.3)	200	1	1
Broching Machine	50	1	1
Punching Machine	150	1	1
Crank Press	1560	8	9
Hydraulic Press	1520	7	3
Gear Lapping Machine	400	2	2
Engrening machine	100	1	1
Coil Winding Machine	3900	20	15
Condenser Paper Coiling Mach	nine 700	4	2
Total	33349	172	158
(D) Scale Shop			
Name of Equipment	Total working hours	Number	of Machine
		Required	Applied
Bench Lathe	850	4	3
Lathe(4'-0")	650	3	1
" (6'-0")	1450	7	7
Turret Lathe (No.1)	680	3	3
" (No.2)	860	4	*
" (No.4)	220	1	1

Applied 4 2 3 5 1 2 1 4 45
3 5 1 2 4
3 5 1 2 4
3 5 1 2 4
1 2 4
4
4
4
45
45
45
Machine
18
. 1
1
5
1
+
14
•
2

3-2 Number of Machines for Insulators Worked out from their woring hours per months

(A) Production	Schedule
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Mica plate, tape etc. 2000 sheet ---- Insulator Shop

Phenol-resin mould 6750 piece ---- Insulator Shop

Hard rubber 6250 piece ---- Insulator Shop

N.B. This production is aimed at for the end of this year

(B) Working Hours of one machine; 200 hours (8 hours a day, 25 days a month)

(C) mica Shop

(a) Mica plate, tape etc.

Name of Equipment	Total working hours	Number o	f Machines
		Required	Applied
Punching Machine	100	1	1
Hydraulic Press	. 175	1	1
Roll	150	1	1
Total	425	3	3
(b) Phenol-resin mould Name of Equipment	Total working Hours		f Machines
		Required	Applied
Hydraulic Press	3000	15	15
Total (c) Hard rubber	3000	15	15

Name of Equipment	Total working nours	Number of	Machines
		Required	Applied
Hydraulic Press	2400	12	12
Mill	725	5	5

Name of Equipment	Total working hours	Number of	Machines
(d) Treating of insurating material		Required	Applied
Punching Machine Mill Crasher Insulating Paper Making Machine	125 525 880 225	3 5 2	3 5 2
Total	1755	11	11
Name of Equipment	Total working Hours	Number of M	lachines .
Lathe		Required	Applied
Bench Drilling Machine			1
Plain Milling machine			2
			1
Total			4

3-3 The Shotage of Machines will be covered as follows;

- (A) By making full use of Subsidiaries etc.
- (B) By home-production
- (C) By purching
- (D) By improving other machines available

3-4 Machine Equipments for the Tool Shop and the Repairing Shops

The above tow shops are to make and repair all tools and machines used in our factory, and at least 15-20% for the exection of the Purpose which means 45 machines for the Tool shop and 10 machines for the Repairing Shop.

(4) Other Equipments not Mentiond in incl.

Heat Furnace

Name of Equipments	Number	Reason
Milling Machine		Unit
Paper Grinding Machine	12	Small Machine
Bite Grinding Machine	11	Small Machine
Vertical Paper Grinding Machine		Simple Machine
Arber Press	31	
Hand Sorew Press	5)	
Hand Eccentric Press	7)-	Small and Uand anna-4-
Toll Press	4)	Small and Hand operate
Ribetting Machine	1))	
Hydraulie Press	11	Destroyed Machine
Coil Winding Machine	12	Return to our Kobe Works (Simple and Small Machine)
Electric heat furnace	9)	
Electric Welder	7)	
Wagnetizer	3)	Electric Equippment
Magneto Testing Machine	24)	
Moter Generator	16)	

Name of Equipments	Number	Reason
Accumulator		
Air Compressor	3	
Blower	5	
Vaccum Arrangement	2	
Poump	16	

(5) Machine Equipments installed after the War.

Name of Equipments	type	maker	Number	year of setting
Lathe	s - L	Ishikawa Kikai	6	sept. 1945
Automatic Lathe	No.00	Brown & Sharp	2	
Tapping Lathe	RSL	Riken Kogyo	1	oct. 1945
Vertical Surface Griding Machine		Lumsden	1	pec. 1945
Friction Press	60 ton	Morita Tekko	1	Jan. 1946