DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

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

Description of contents

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(2) Folder title/number: (9)
464 Fertilizers

(3) Date: Apr. 1947 - Nov. 1948

(4) Subject:

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(7) Film no.

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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

RECEIVED: GMGT
1300 hrs-time
6 Dec date

C O.	✓	✓
EX.O&ADT.	✓	
C I		
P. W		
O.E.		
legal&Govt		
P. H		
Econ	✓	✓
Det Comdr		
S4 Major		

HEADQUARTERS I CORPS
APO 301 (Kyoto, Honshu)

AG 464.4 - V

SUBJECT: Storage of Ammonium Nitrate NOV 19 1948

TO : Commanding Officer, Tokai-Hokuriku Mil Gov't Region, APO 710

1. Reference is letter, this headquarters, AG 464.4 - V, dated 9 November 1948 and attached copy of TC Circular #45-19, 8 September 1948, Office of the Chief of Transportation, Washington, D.C. on storage of ammonium nitrate.

2. The regulations set forth in above cited circular will be binding on the Japanese Government Agencies that take delivery of the ammonium nitrate from U.S. vessels when the storage area is adjacent to any U. S. military installation. It is also deemed desirable that these procedures which the U. S. Army has found necessary for the safety of its personnel and property be brought to the attention of the responsible Japanese receiving agencies in areas far removed from any U.S. military installation in your region.

BY COMMAND OF MAJOR GENERAL SWING:

WILDER A. JOHNSON
Capt., A.G.D.
Asst. Adj. Gen.

1 Incl:
TC Cir 45-19

TO: GIFU MIL GOVT TEAM
APO 25

AG 464 1st Ind KBB/ai

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 6 Dec 48

TO: Commanding Officer, Aichi Mil Govt Team, APO 710
Commanding Officer, Gifu Mil Govt Team, APO 25
Commanding Officer, Mie Mil Govt Team, APO 710
Commanding Officer, Ishikawa Mil Govt Team, APO 301
Commanding Officer, Toyama Mil Govt Team, APO 301
Commanding Officer, Fukui Mil Govt Team, APO 301

For your information and file.

BY ORDER OF COLONEL DUMONT;

MARION S. BELL
Capt, Inf
Adjutant

1 Incl:
n/c

48-2 8 DEC 1948

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

COPY

(CIR 45-19)

DEPARTMENT OF THE ARMY
Office of the Chief of Transportation
Washington 25, D. C.

TC CIRCULAR)
NO. 45-19)

8 September 1948

Effective until 8 September 1949 unless sonner rescinded or superseded.

SUPPLY AND STORAGE

TC Regulations Governing the Storage of Ammonium Nitrate Fertilizer

1. The following regulation are promulgated for the information and guidance of all TC personnel concerned with the storage of Department of the Army ammonium nitrate fertilizer when such fertilizer is under the control of the Transportation Corps.

2. Ammonium nitrate fertilizer is bags, when stored at a facility operated and controlled by the Transportation Corps, will be stored in approximately the following manner:

a. Stacks will be limited to the following maximum size:

(1) 10 bags high.

(2) 6 bags wide.

(3) 20 bags long.

The above is approximately the contents of one railroad car, (1000-1200 bags).

b. A minimum clear aisle space of four will be maintained between stacks and walls, and between adjacent stacks.

c. Ammonium nitrate fertilizer will be stored away from electric wiring, steam pipes, radiators, or any heating mechanism.

3. The bottom layer of bags will be laid on pallets to provide for ventilation under the stack and to allow for drainage of water.

4. Ammonium nitrate fertilizer will not be stored in a warehouse in which sulphur or explosives are stored. The fertilizer will not be stored in the same fire section of a warehouse in which any of the following items are stored:

COPY

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Inflammable liquids, combustible liquids, acids, corrosive liquids, compressed gases, finely divided metals, bleaching powder, cotton or burlap bags, caustic soda, chloride of lime coal, coke, charcoal, cork, sugar, baled cotton, baled rags, wool, excelsior, animal fats, fibers of any kind, fish oils, linseed oils, or other oxidizible or drying oils, paint, fish meal, hay, straw, napthalane, camphor, oakum, biled clothing, oiled paper, oiled textiles, baled scrap paper, quick lime, sawdust, wood shavings, vegetable oils, or essential oils.

5. Any section of a warehouse in which ammonium nitrate fertilizer is to be stored will be swept broom clean. If acids, sulphur, sugar, or finely divided organic materials or metals have previously been stored in the section, the area will be washed down with water prior to the beginning of storage of the fertilizer.

6. The contents of broken or damaged bags will be repackaged before being placed in stacks. Under no circumstances will any sweepings or other contaminated ammonium nitrate fertilizer be repackaged. Sweepings and other contaminated fertilizer will be disposed of by burying underground or by dumping into a free flowing stream. If the warehouse is located on or near the waterfront, the contaminated material and sweepings will be dumped into the Bay. Wooden floors impregnated with ammonium nitrate fertilizer will be very free burning if a source of ignition should contact them. For this reason, if any spilled ammonium nitrate fertilizer has been in contact with such a floor for any length of time, the floor should be thoroughly flushed and scrubbed to insure that all of the fertilizer has been dissolved and washed away.

7. Warehouses in which ammonium nitrate fertilizer is stored should be well ventilated and in the event of fire, all possible ventilation should be provided in order to permit the escape of heat and the products of combustion and decomposition.

8. Carbondioxide, carbon tetrachloride, and other hand type fire ixtinguishers are of no value in fighting a fire in which ammonium nitrate fertilizer itself is involved. Large quantities of water, capable of cooling and saturating stacks and surrounding material and building members, is the only known effective means of combatting fires in a mass of fertilizer.

9. No materials handling equipment will be stored in any warehouse section where ammonium nitrate fertilizer is stored. Materials handling equipment used in connection with handling and storage of the fertilizer will be maintained in sound operating condition. It will be inspected frequently to make certain that fuel tanks, fuel lines, and carburetors are tight and not leaking.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

COPY

Flame arresting devices will be attached to the carburetor throats, and mufflers and other spark arresting devices, attached to exhausts, will be maintained in good condition. Motors will be kept clean by steam cleaning or equivalent method and the electrical system on the equipment will be so maintained as to minimize the possibility of fires fromeelectrical causes. Fuel tanks will not be filled inside of a warehouse section where the fertillzer is stored. Eledtrically powered materials handling equipment will be so maintained as to minimize the possibility of fire originating in the equipment itself.

10. If portable electric lights are used, they will be protected by efficáéáá guards. W-iring for such lights will be of heavy duty type, approved by Underwriters Laboratories, Inc, or equivalent. No open lights or flame producing devices will be permitted in sections where the fertilizer is stored.

11. Smoking willbe prohibited in any warehouse section in which ammonium nitrate fertilizer is stored.

12. Storage of fertilizer in an igloo will be so accomplished as to provide a longitudinal aisle at least four feet wide, located in the center of the structure and extending the full length of the structure. An air space of at least twelve inches will be maintained between the walls and the stacks on all sides and a clear space of at least twelve inches will be maintained between the tops of stacks and the lower surfaces of the roof or the members supporting the roof.

13. These Regulations and any other restrictions that may be required by the lessor or operator or other governmental agency will be complied with when Department of the Army ammonium nitrate fertilizer under the control of the Transportation Corps, is stored at a commercial facility ar at a governmental facility not controlled by the Transportation Corps.

14. This circular supersedes TC Circular 45-19, 9 October 1947. (TCSAF)

F. A. HEILEMAN
Major General
Chief of Transportation

OFFICIAL:

/s/ George M. Folley
/t/ GEORGE M. FOOLEY
Major, TC
Assistant

Distribution "B"

COPY

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

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HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

464.6

11 October 1948

SUBJECT: Shipment of Fertilizer

TO : Commanding Officer
Gifu Mil Govt Team
APO 25

During the month of September, there were 277.695 kg tons of Superphosphate from Nissan Chemical Industry, Fushiki, 117.720 kg tons of Superphosphate from Nippon Carbide, Uozu, 189.7622 kg tons of Superphosphate from Showa-Denko, Toyama shipped to your prefecture.

FOR THE COMMANDING OFFICER:

Louis N. Roberts
LOUIS N. ROBERTS
1st Lt, FA
Adjutant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Hq, Toyama Mil. Gov't. Team, APO 301, dtd. 11 Oct. '48, subj: "Shipment of Fertilizer".

464 1st Ind NA/tt

Hq., Gifu Military Government Team, APO 25, Unit 2, 30 October 1948

TO: Commanding Officer, Toyama Military Government Team, APO 301

1. Records here indicate fertilizer receipts during September 1948 from Toyama as follows:

a.	Nissan Chemical Ind. Fushimi	277,695 kg tons Superphosphate
b.	Nippon Carbide Oozu	117,720 kg tons Lime Nitrogen
c.	Showa Denko Toyama	201,105 kg tons Lime Nitrogen

2. It will be noted that items 1b and 1c do not agree with information in basic communication.

FRANK C. SEITZ
It. Col., Infantry
Commanding

4 NOV 194[illegible] 163

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

MAIN FILE

BASIC: Ltr, Hq, Toyama Mil Govt Team, APO 301, dtd 11 Oct 48, Subj: "Shipment of Fertilizer".

464 2nd Ind JJL/sn

Hq Toyama Military Government Team, APO 301, 12 Nov 48

TO: Commanding Officer, Gifu Military Government Team, APO 25, Unit 2

1. Investigation of Fertilizer Shipped by the Showa Denko Co, Toyama Plant as to the discrepancies noted in Par 1c 1st Indorsement revealed the following information. The Showa Denko Co, Toyama Plant shipped Calcium Cyanimide to Gifu Ken on the following dates:

September	4	44,145	K Tons	15 % Nitrogen
	5	24,525	"	"
	6	14,715	"	"
	7	9,810	"	"
	10	14,715	"	"
	12	14,715	"	"
	13	14,715	"	"
	20	14,715	"	"
	24	29,430	"	"
	29	19,620		16% Nitrogen
TOTAL		210,105		

This total counted into 16% Nitrogen equivalents totaled 189,7622 K Tons.

2. The discrepancy noted concerning the shipment of chemical fertilizer from the Nippon Carbide Co, Uozu Plant is a typographical error and should read 117,720 Kg tons of Calcium Cyanimide from Nippon Carbide, Uozu.

FOR THE COMMANDING OFFICER:

Russel E Anderson
RUSSEL E. ANDERSON
1st Lt, INF
Asst Adjutant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

C-O-P-Y

464

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

13 September 1948

SUBJECT: Shipment of Fertilizer

TO: Commanding Officer
Gifu Mil Govt Team
APO 25

During the month of August, there were 33.025 kg tons of Superphosphate shipped to your Prefecture from Nissan Chemical Industry, Fushiki and also there were 142.5516 kg tons of Calcium Cyanamide shipped to your Prefecture from Showa-Denko, Toyama.

FOR THE COMMANDING OFFICER:

OVID E. SCOTT
Major, FA
Adjutant

091.31 1st Ind JMS/NA/yo

Hq., Gifu Military Government Team, APO 25, Unit 2, 19 October 1948

TO: Commanding Officer, Toyama Military Government Team, APO 301

Information available from the Agriculture Industry Section of the Gifu Prefectural Government indicates that during the period 1-30 September, 1948, the following amounts of fertilizer were received:

Name of Shipper	Type of Fertilizer	Quantity Received
Nissan Chemical Ind., Fushiki Plant	Superphosphate	335.025 kg/ton
Showa Denko Toyama Plant	Calcium Cyanamide	152.055 kg/ton

SIDNEY T. MIXON
Major, Infantry
Commanding

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

464

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

13 September 1948

SUBJECT: Shipment of Fertilizer

TO: Commanding Officer
Gifu Mil Govt Team
APO 25

During the month of August, there were 335.025 kg tons of Superphosphate shipped to your Prefecture from Nissan Chemical Industry, Fushiki and also there were 142.5516 kg tons of Calcium Cyanamide shipped to your Prefecture from Showa-Denko, Toyama.

FOR THE COMMANDING OFFICER:

/s//t/ OVID E. SCOTT
Major, FA
Adjutant

MAIN OFFICE FILE

464.6 1st Ind NA/tt

GIFU MILITARY GOVERNMENT TEAM, APO 25, Unit 2, 21 September 1948.

TO: Gifu Prefectural Agri. Production Section

Request confirmation of receipt and notation of discrepancies.

FRANK C. SEITZ
Lt. Col., Inf.
Commanding

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

464.6

12 August 1948

SUBJECT: Shipment of Fertilizer

TO: Commanding Officer
Gifu Mil Govt Team
APO 25

During the month of July, there were 9.585 kg tons of Superphosphate shipped to your prefecture from Nissan Chemical Industry, Fushiki and there was also 117.720 kg tons of Calcium Cyanamide shipped to your prefecture from Nippon Carbide Co., Uozu.

FOR THE COMMANDING OFFICER:

/s/ Ovid E. Scott
/t/ OVID E. SCOTT
Major, FA
Adjutant

464.6 1st Ind JMS/NA/tt

Hq. Gifu Military Government Team, APO 25, Unit 2, 17 August 1948.

TO: Agricultural Production Section, Gifu Prefectural Government.

Request confirmation of shipment and notation of discrepencies.

FRANK C. SEITZ
Lt. Col., Infantry
Commanding

MAIN OFFICE

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

16 July 1948

464.6

464

SUBJECT: Shipment of Fertilizer

TO : Commanding Officer
Gifu Military Government Team
APO 25

During the month of June, there were 1502.370 tons of Superphosphate shipped to your prefecture from Nippon Chemical Co., Fushiki and 475.785 kg tons of Ammonium Sulphate shipped to your prefecture from Namerikawa Electric Co.

FOR THE COMMANDING OFFICER:

OVID E. SCOTT
Major, FA
Adjutant

1st Ind

JMS/NA/hm

091.31

Hq. Gifu Military Government Team, APO 25, Unit 2, Gifu, Honshu, 28 July '48.

TO: Agriculture Production Section Gifu Prefectural Government

Request confirmation in writing of receipt by the companys listed above or notation of discrepancies if such exist.

FRANK C. SEITZ
Lt. Col., Infantry
Commanding

MAIN OFFICE FILE

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

464.6 12 June 1948

SUBJECT: Shipment of Fertilizer

TO: Commanding Officer,
Gifu Military Government Team
APO 25

During the month of May, there were 327.690 kg tons of Superphosphate shipped to your prefecture from Nissan Chemical Industry Co. Fushiki, 186.390 kg tons of Calcium Cyanamide from Nippon Carbide Co. Uozu and 117.720 kg tons of Calcium Cyanamide from Namerikawa Electric Co., Toyama.

FOR THE COMMANDING OFFICER:

/s/ Ovid E. Scott
/t/ OVID E. SCOTT
Major, FA
Adjutant

MAIN OFFICE FILE

1st Ind JMS/NA/tt

091.31

Hq. Gifu Military Government Team, APO 25, Unit 2, Gifu, Honshu, 19 June 48.

TO: Commerce and Industry Section, Gifu Prefectural Government

Request confirmation in writing of receipt by the companys listed above or notation of discrepancies if such exist.

FRANK C. SEITZ
Lt. Col., Infantry
Commanding

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

1 copy Econ

RECEIVED: GMGT
0800 hrs-time
5 May date

C O		
Ex.O.&Adj.		
C I		
P. W		
O.E.		
Legal&Govt		
Public Health		
ECON		
DET COMDR		
Sgt Major		

HEADQUARTERS I CORPS
APO 301 (Kyoto, Honshu)

MEMORANDUM:

TO : See Distribution

HANDLING, TRANSPORTING AND STORING AMMONIUM NITRATE FERTILIZER

1. References:

a. Memorandum this headquarters above subject dated 2 February 1948.

b. Memorandum GHQ SCAP dated 9 August 1947 file No. 091.31 (9 August 47) ESS/FT (BT 47-646). For the Board of Trade (Boeki Cho) Ministry of Commerce and Industry, Tokyo, subject, "Handling and Transporting Precautions for Ammonium Nitrate"

c. Radio, Eighth Army Cite DX 83176 JO dated 15 August 1947.

2. Paragraph 8 reference a, above, is rescinded and the following is substituted therefor:

8. Supervision:

a. The Commanding Officers of all Military Government Regions and Teams located in the area of jurisdiction of this headquarters will be responsible for the enforcement of the above regulations. The Commanding Officer Hyogo Military Government Team will coordinate action with the Commanding General Kobe Base.

b. Attention of all tactical force commanders is directed to the danger of storage of ammonium nitrate in quantities in excess of one hundred (100) pounds within a radius of three hundred (300) feet of an occupation force installation. Individual farmers will frequently possess amounts considerably in excess of the amount. (For quantity - distance safety factors see page 86, Ordnance Safety Manual, O.O. Form No. 7224).

c. All personnel, Military, civilian and Japanese, responsible for handling, transporting or storing ammonium nitrate fertilizer will be informed of the contents of this memorandum. Reproduction of the contents of the memorandum for dissemination as required is authorized.

2305 MAY 1948

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

d. Immediate report will be made to this headquarters of any case in which it appears upon arrival of an ammonium nitrate vessel that instructions contained in this memorandum were violated at loading port in Zone of Interior. (V)

BY COMMAND OF MAJOR GENERAL SWING:

Wilder A Johnson

WILDER A JOHNSON
Captain AGD
Asst Adj General

DISTRIBUTION:

"C" Plus
5 copies to Military Government I Corps
5 copies to each Military Government Region I Corps
5 copies to each Military Government Team I Corps
5 copies to Provost Marshal, Nagoya Metropolitan Area
5 copies to Transportation Section I Corps

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

RECEIVED: GMGT
0700 hrs time
7 May date

C O.	
Ex.O&A.DT.	ABH/tn
C I	
P. W	
30 April 1948 O.E.	
Legal&Govt	
P. H	
Econ	
Det Comdr	
Sgt Major	

1 copy Econ

HEADQUARTERS I CORPS
APO 301 (Kyoto, Honshu)

AG 464 - BA

SUBJECT: Fertilizer Production

TO : See Distribution

1. The following extract from an indorsement by the Supreme Commander for the Allied Powers is quoted for your information and guidance:

"1. The attached application from Nakazu-cho Agriculture Association of Gifu, has been thoroughly investigated through study of this application and discussion with officials concerned in the Japanese Government. The proposed are method for producing calcium nitrate fertilizer has been out-moded for many years, principally because this system for producing nitrogen fertilizer is inefficient. The power consumed per unit of nitrogen fixed is far too great to warrant constructing and operating any such type plant. Much more economical methods for fixing nitrogen, the ammonium synthesis and the cyanamide processes, are operative in Japan.

2. The ultimate needs of Japan as a whole have been considered in establishing location and capacity for nitrogen fertilizer plants. Fertilizer production at this time is below requirements because of shortages of raw materials and is not now limited by plant capacity. Many Japanese individuals and organizations, ignoring this fact, recommend the use of additional production facilities, regardless of type or efficiency of processes involved, in the belief that such a procedure will relieve the present shortage of chemical fertilizer. However, the use of additional facilities, especially inefficient ones, would tend to decrease overall efficiency of the industry, with the net result that shortage of nitrogen fertilizer would become still more severe.

74/2 MAY 1948

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

3. Until such time as existing plants are able to operate near capacity levels, total supplies of nitrogenous fertilizer will be inadequate and shortages will be felt in many areas. Sustained efforts are being made to increase production so as to meet minimum requirements of Japan. It is not deemed advisable to expend scarce materials for the express purpose of using rarely available surplus power, since it is considered that in the near future, any surplus power can be efficiently and more advantageously used by industrial facilities that are already existing."

BY COMMAND OF MAJOR GENERAL SWING:

H. C. HANSHAW
C.W.O. USA
Asst Adj Gen

DISTRIBUTION:
2 ea MG Region & Team
I Corps Z/R
3 AG Rec, I Corps

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

GIFU
MILITARY GOVERNMENT TEAM
APO 25, Unit 2 (Gifu, Honshu)

EBG/fi

464.6

16 February 1948

SUBJECT: Fertilizer Production

TO: Commanding General
Eighth Army, APO 343
(Attn: Military Government Section)

1. Attached herewith is an application from the Nakazu-cho Agricultural Association Number 1716-8, Nakatsugawa, Nakatsu-cho, Ena-gun, Gifu-ken for the installation and operation of a plant for the production of Calcium Nitrate Liquid.

2. This headquarters requests favorable consideration be given to this installation because of the short supply of other type fertilizers.

FRANK C. SEITZ
Lt. Col., Infantry
Commanding

1st Ind GNM/ss

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 27 Feb 48

TO: CG, I Corps, APO 301
ATTN: Mil Govt Section

MG

1. For your information.

2. The information regarding the construction of this plant was requested by Major Berry.

FOR THE COMMANDING OFFICER:

WALTER O. WADE
Capt, Inf
Adjutant

BA77041

1110. 28 FEB 1948

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Gifu Mil Govt Team, 464.6, subj: "Tertilizer Production", dtd 16 Feb 48.

AG 464 - BA 2nd Ind

Hq I Corps, APO 301, MAR 2 1948

TO: CG, Eighth Army, APO 343
ATTN: Mil Govt Section

1. Reference: telephone conversation, Major Berry, your headquarters and Mr. Holtz, this headquarters on 1 March 1948.

2. Attention is invited to attached petition.

FOR THE COMMANDING GENERAL:

WILLIAM A. FRANKS
Capt, AGD
Ass't Adjutant General

3336

1 Incl:
n/c

CIC 1 MAR 1948 ABH/mf 004.03

AG 464 (MG-Em) 3rd Ind

Headquarters Eighth Army, APO 343 10 MAR 1948

TO: Supreme Commander for the Allied Powers, APO 500
(Attn: ESS/IN /Ch. Br.)

1. Attention is invited to the basic letter and the application from the Nakazu-cho Agriculture Association of Gifu Ken.

2. It is strongly recommended that the promoters of this project be allowed to complete and operate it, to increase fertilizer production and to encourage individual initiative and enterprise.

8

FOR THE COMMANDING GENERAL:

R. SCHAFER
Lt. Col., AGD
Asst. Adjutant General

1 Incl:
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Hq Gifu Mil Govt Team, dtd 16 Feb 48, subj: Fertilizer Production.

AG 004.03(16 Feb 48)ESS/IN 4th Ind

GENERAL HEADQUARTERS, SUPREME COMMANDER FOR THE ALLIED POWERS, APO 500

21APR48

TO: Commanding General, Eighth Army, APO 343

8635

1. Recommendation contained in paragraph 2 of the 3rd indorsement is not favorably considered.

2. The attached application from Nakazu-cho Agriculture Association of Gifu, has been thoroughly investigated through study of this application and discussion with officials concerned in the Japanese Government. The proposed arc method for producing calcium nitrate fertilizer has been out-moded for many years, principally because this system for producing nitrogen fertilizer is inefficient. The power consumed per unit of nitrogen fixed is far too great to warrant constructing and operating any such type plant. Much more economical methods for fixing nitrogen, the ammonium synthesis and the cyanamide processes, are operative in Japan.

3. The ultimate needs of Japan as a whole have been considered in establishing location and capacity for nitrogen fertilizer plants. Fertilizer production at this time is below requirements because of shortages of raw materials and is not now limited by plant capacity. Many Japanese individuals and organizations, ignoring this fact, recommend the use of additional production facilities, regardless of type or efficiency of processes involved, in the belief that such a procedure will relieve the present shortage of chemical fertilizer. However, the use of additional facilities, especially inefficient ones, would tend to decrease overall efficiency of the industry, with the net result that shortage of nitrogen fertilizer would become still more severe.

4. Until such time as existing plants are able to operate near capacity levels, total supplies of nitrogenous fertilizer will be inadequate and shortages will be felt in many areas. Sustained efforts are being made to increase production so as to meet minimum requirements of Japan. It is not deemed advisable to expend scarce materials for the express purpose of using rarely available surplus power, since it is considered that in the near future, any surplus power can be efficiently and more advantageously used by industrial facilities that are already existing.

BY COMMAND OF GENERAL MacARTHUR:

J. F. Bradshaw

3 J. F. BRADSHAW
Major, AGD
Asst Adj Gen

1 Incl
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

3212

BASIC: Ltr, Hq Gifu Mil Govt Team, subj: "Fertilizer Production", dtd 16 Feb 48.

AG 464 (MG-Em) 5th Ind

Headquarters Eighth Army, APO 343

26 APR 1948

TO: Commanding General, I Corps, APO 301

NIG

Attention is invited to the 4th indorsement.

BY COMMAND OF LIEUTENANT GENERAL EICHELBERGER:

R. SCHAFER
Lt. Col., AGD
Asst. Adjutant General

1 Incl.
n/c

AG 464 - BA 6th Ind

Hq I Corps, APO 301,

APR 30 1948

ABH/mo

TO: CO, Tokai-Hokuriku Mil Govt Region, APO 710

Attention is directed to 4th indorsement.

BY COMMAND OF MAJOR GENERAL SWING:

H. C. HANSHAW
C. W. O. U.S.A.
ASST. ADJUTANT GEN

1 Incl:
n/c

BA-82806

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

RECEIVED, 4th Ind
0800 hrs-time
2 May Date

BASIC: Ltr, Hq Gifu Mil Govt Team, subj: "Fertilizer Production", dtd 16 Feb 48

7th Ind GNM/ss

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 5 May 48

TO: Commanding Officer, Gifu Mil Govt Team, APO 25

Your attention is invited to the 4th indorsement.

BY ORDER OF COLONEL DUMONT:

WALTER O. WADE
Capt, Inf
Adjutant

1 Incl:
n/c

6 MAY 1948

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

RE.

NAKATSU CALCIUM NITRATE LIQUID PLANT.

Doc 1/

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

NOVEMBER 1947.

APPLICATION FOR THE INSTALLATION OF A PLANT OF CALCIUM NITRATE LIQUID.

THE NAKATSU-CHO AGRICULTURAL ASSOCIATION
NO. 1716-8, NAKATSUGAWA, NAKATSU-CHO,
ENA-GUN, GIFU PREFECTURE.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Application for the installation of a plant of calcium nitrate liquid.

GENERAL HEADQUARTER OF MILITARY FORCES:

Dear Sir:

I beg to apply for the installation of a plant of calcium nitrate liquid according to the plan accompanied herewith.

11, 1947,
NO. 1716-8, NAKATSUGAWA, NAKATSU-CHO,
ENA-GUN, GIFU PREFECTURE.

G. NUNOYA G. Nunoya

PRESIDENT OF THE NAKATSU-CHO,
AGRICULTURE ASSOCIATION.

Plan for the installation of a plant of calcium nitrate liquid.

APPLICANT: GAKUJIRO NUNOYA:
BORN ON JUNE 23rd 1908
NO. 1716-8, NAKATSUGAWA, NAKATSU-CHO, ENA-GUN GIFU PREFECTURE.

(1) Position of the plant: NO. 1473, Nakatsugawa, Nakatsu-Cho,
Ena-Gun Gifu Prefecture.

(2) Object of the present installation and outline of its manufacturing process.

Under the present scarcity of manure it is our earnest desire to install a small sized manure manufacturing plant by simple process and thus to supply for ourselves with part of nitrate sulphate manure by producing calcium nitrate liquid.

The manufacturing process of this plant, which is known by the name of electric method of nitrate production, aims to produce dense liquid of calcium nitrate (about 60%)(solution) by making acid nitrate react upon water and lime stone and quick lime. This nitrate is formed by the action of atomospheric nitrogen and oxygen by sending air through high pressure electric are. The fundamental technic of this process has already been completely studied at the Tokyo Industrial Laboratory of the Department of Commerce and Industry.

AMOUNT OF PRODUCTION: (Extent of operation is to use only 1 set of equipments already constructed. Against the original plan of 3 sets)

60% solution of calcium nitrate (nitrogen 7%)
Working 25 days per month (600 hours) 110 tons. (3 sets)
Converted into Ammonium Sulphate 37 tons. (12 Ton for 1 set.)

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KINDS AND AMOUNTS OF THE MATERIALS AND THEIR SUPPLIER:

for 1 act
600
400 × ~~25~~ × 24
= 24,000 K.W.h

Electric power 1500 kilo watts from the Chubu Haiden K. K.
Lime ston (Per month) 24 tons.
Quick Lime (Per month) 13 tons.

DATE OF COMPLETION AND COMMENCEMENT OF PRODUCTION:

Date of completion: 4 months after sanction.

Date of commencing production: ditto.

COST ACCOUNTING PRODUCTION: (working 25 days per month)

(a) Labour----------¥27,100
Staff and clerks----------6 persons
Workers----------25 persons

(b) COST OF MATERIALS:

Amount of production (converted into ammonium sulphate)
1.5 tons per day (37 tons per month.)

Descriptions	Amount required	Unit price	Total	Remarks
Electric Power	550,000 Kilo Watts for electric furnace 30,000 Kilo Watts for others	9 sen	¥55,200	3 ¥en to be added per Kilo for Basic chang
Lime Stone	24 tons	¥150	¥3,600	
Quick Lime	13 tons	¥400	¥5,200	
Sundry Expenses			¥5,000	
TOTAL----------			¥69,000	

(c) OTHER EXPENSES:

Redemption of Equipment (10 Years) (cost for equipment	¥2,370,000 ¥ 19,750,0
Repa[illegible]ing Expenses	¥ 10,000,00
Interest on cost of Equipment (4% per annum)	¥ 7,900,0
Landment and Sundry Expenses	¥ 5,000,0
Total	¥42,650,00

GRAND TOTAL OF a. b. c.----------¥ 138,750,00

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AMOUNT OF PRODUCTION:

Calcium Nitrate----------110 Tons

Converted into Ammonium Sulphate----------37 Tons

COST OF PRODUCTION PER TON:

Calcium Nitrate Liquid----------¥1,600,00

Converted into Ammonium Sulphate----------¥4,740,00

OUTLINE OF ESTIMATE FOR THE ENTERPRISE:

(a) Total Cost of Equipment----------¥2,383,200

Annual Production (converted into Ammonium sulphate.)----------444 Tons

Items:

Land and Buildings----------¥762,500,00

Machinery and Electric Equipment----------¥1,610,700,00

(b) WORKING FUND: ---------- ¥ 398,700,00

Expense for 3 months for material, electric power and labour

TOTAL---------- ----------¥2,771,900,00

MEANS OF RAISING FUND:

From the fund of the Agricultural Association.

BUYERS:

Members of the Agricultural Association.

---We---end---

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TO: Economic & Scientific Section, G.H.Q.

FROM: Nakazu-cho Agricultural Association,
2013, Nakazugawa, Nakazu-cho, Kaina-gun,
Gifu prefecture

SUBJECT: Petition for fertilizer production

Nov. 18, 1947

In settling the current food problem of Japan the first importance is to improve the method of cultivation through farmers' consciousness and also to increase food production by means of extending arable land.

Under the present circumstances in this country it is possible to extend arable land, but it is very difficult to obtain fertilizers necessary for arable land as acquired by cultivation. In particular, the fertilizer like ammonium sulphate is so scarce due to coal and pyrites shortage that even half the requirements as allocated for application to existing arable land cannot be met. In these times it is quite important to produce a fertilizer in some way or other, especially in our district where fertilizer shortage is acutely felt due to extensive area of newly cultivated land.

From announcements by both the National Agricultural Association and the Commerce & Industry Ministry's Industrial

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Laboratory we knew that if electric power is available it is possible for us farmers to rather easily produce calcium nitrate which is a nitrogenous fertilizer having an effect to improve acid soil too.

The four agricultural associations comprising us 3,597 farmers in Nakazu-cho, Ochiai-mura, Nayegi-cho and Sakamoto-mura organized Fertilizing Calcium Nitrate Manufacturers' Association, and in April 1946 we sounded informally the views of the Commerce and Industry Ministry concerning a project of the Association to produce calcium nitrate, when we were told that there was no need of getting licence for fertilizer production from the Japanese Government because calcium nitrate is outside the Government's control, and also that only the permission of the prefectural governor was required for operation as an ordinary factory.

On Feb. 13, 1947, actual preparations were started for the erection of factory with the permission of the Governor of Gifu prefecture. The project was positively supported by the Gifu Prefectural Authorities, and we had former war supplies disposed of as construction materials. As to electric power supply, we arranged a supply contract with the Chubu Electric Power Distribution Co. in Nov. 1946 with the permission of the Local Commerce and Industry Bureau. As to principal machinery, it was ordered from

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the Tokyo-Shibaura Electric Co., Ltd., and the operation of the factory was scheduled to be started late in last year, while a prolonged labor trouble occurring with the same company's plant since summer last year resulted in a considerable delay in the contruction of the principal machinery ordered. Furthermore, a general resignation of executive officers of local agricultural associations in March 1947 proved a hindrance to the execution of the project.

With the election of new officers of agricultural associations as elected by the general will of farmers it was arranged to soon execute the present project under a reorganized management. In April 1947 the construction of the machinery was completed due to the settlement of the labor trouble. The ground of the factory site was therefore levelled, and on March 10, 1947, an application was filed with the Reconstruction Board for permission to build a factory building.

It was, however, made known that there was no prospect of the above application for construction being granted without the permission of the Commerce and Industry Ministry for fertilizer production. We visited the Commerce and Industry Ministry to investigate the cause of difference from what we were told in April 1946, and found that due to the G.H.Q's directives to the Japanese Government issued

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in May 1946 and July 1947 the Japanese law was revised to call for the Government's permission in the manufacture of any nitrogenous fertilizer, and also that the Japanese Government's permission needs the G.H.Q's approval. Thus, it has come to our knowledge that we have to make a re-start fundamentally in the execution of the present project.

As already mentioned we more than 3,500 farmers have finished all preparations for the execution of the project, if out of our ignorance of the law, spending about one million Yen to get all the necessary machinery and materials. We are anxiously looking forward to a chance to execute the project, dreaming of a rich harvest of the future.

It is sincerely hoped that permission will be granted to enable us to carry out fertilizer production only in the period of (namely from April 1 to September 30) abundant water in sympathy with us in the project, taking into consideration the special electricity circumstances described in the accompanying explanation on electric power situation.

Nakazu-cho Agricultural Association,

Gakujiro Nunoya
(Gakujiro Nunoya)

President

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Explanation on Electric Power Situation

1. Relationship between erection of factory and electric power:

Since electric power is the first requirement for production an electric power supply contract was arranged with the Chubu Electric Power Distribution Co., Ltd. on Nov. 1, 1946, with the Local Commerce and Industry Bureau.

By the way, the electric power to be used is 400 kw.

2. The Chubu Electric Power Distribution Co., Ltd. remodelled its former small scale transformer sub-station into the one capable of transmitting the electric power of 10,000 kw so as to facilitate its power supply to fertilizer plants and various other factories in this district. This work was completed in Nov. 1947. For cooperation in such completion of work we paid ¥40,000.

3. At first the present plant was to be erected at a distance of 1,000 meters from the transformer sub-station, and permission of the Governor was received accordingly, but with the saving of construction cost as well as advantage in receiving power taken into consideration the factory site was changed to a place situated at a distance of 200 meters from the trans-

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former sub-station. Permission of the Governor has been received for such change, and the levelling of the ground is now completed.

4. Electric power situation in time of abundant water:

During April to September the output of 1,300,000 to ~~270,000 kw~~ 1,170,000 kw per month is available. The usual requirements of the territory within the jurisdiction of the Chubu Electric Power Distribution Co., Ltd. being 1,300,000 kw (according to what is stated by the Chubu Electric Power Distribution Co., Ltd.) the electric power generated beyond 1,300,000 kw during such period is utilized for non-urgent industrial purposes such as salt manufacture, electric boiler operation, etc. It is therefore intended to carry out the proposed production during the period of abundant water alone.

5. Electric power situation of Ibigawa Electric Co., Ltd. (Fertilizer Plant):

The above company is now carrying on fertilizer production by private power generation. Due to electric power control a contract is arranged by the company with the Nippon Hassoden Co., Ltd. for the supply of surplus electricity during the period of abundant water.

60 Cycle System Possible Output (for 1946) of

Nippon Hassoden Co., Ltd. (Actual results in territory within jurisdiction of Chubu Elec.Power Dis,Co.)

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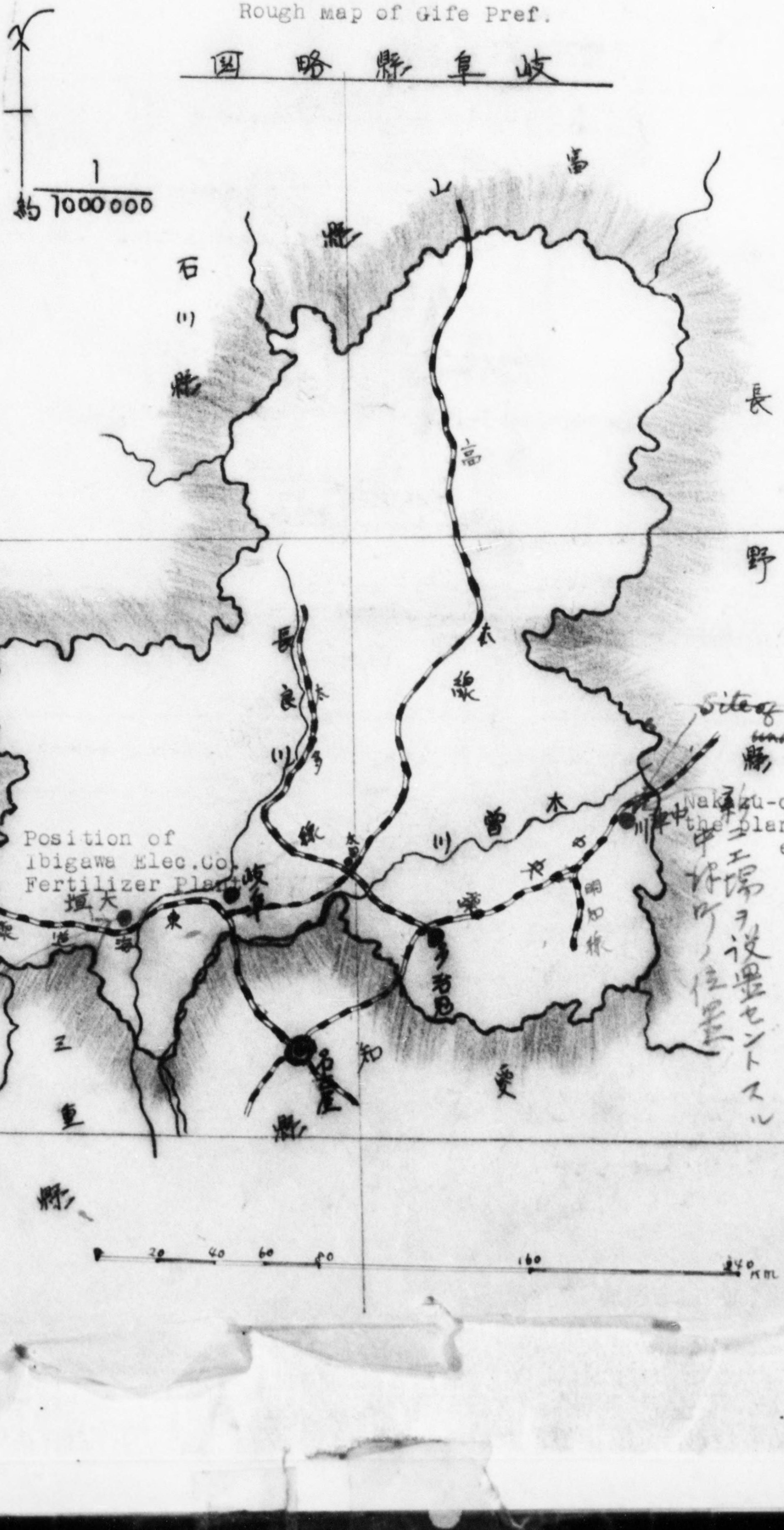
Rough Map of Gifu Pref.

岐阜縣略圖



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Dec. 23, 1947

TO: Economic & Scientific Section, SCAP.

FROM: Nakatsu-cho Agricultural Association,
Nakatsu-cho, Keina-gun, Gifu prefecture.

SUBJECT: Report on electric power situation in
Gifu prefecture.

In connection with the report on electric power situation in the area under the jurisdiction of the Chubu Power Distribution Co., Ltd., as attached to the Nakatsu-cho Agricultural Association's application of Nov. 21, 1947 for permission to establish a calcium nitrate plant, a report is further made as follows:-

(1) Supply of electric power by Ibigawa Electric Co., Ltd. to Chubu Power Distribution Co., Ltd. in time of abundant water:

As to the supply of electric power by the Ibigawa Electric Co., Itd.during the period of abundant water from April to Sept. 1947, the separate sheet shows that throughout these months the power was supplied to the Chubu Power Distribution Co., Ltd. A survey of details of operation in each of the months also reveals that in April to July only 4 electric furnaces were operated by the Ibigawa Electric Co., Ltd., while that in Aug. and Sept. they operated 10 electric furnaces in full, and moreover, supplied power to the Chubu Power Distri-

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bution Co., Ltd. as indicated also on the separate sheet.

(2) Situation of power transmission within the jurisdiction of Chubu Power Distribution Co., Ltd.:

(a) Relationship with jurisdiction of Kansai Power Distribution Co., Ltd.:

The power supply under the jurisdiction of both the Chubu Power Distribution Co. Ltd. and the Kansai Power Distribution Co., Ltd. is equally of 60 cycles, and these companies are usually helping with each other for a well-balanced power distribution. It is, however, generally the case that when surplus power is available in the Chubu's area there is a surplus of power in Kansai too.

(b) Relationship with jurisdiction of Kanto Power Distribution Co., Ltd.:

The power supply under the jurisdiction of the Kanto Power Distribution Co., Ltd. is of 50 cycles, and even if a surplus power of ~~1,000 to 2,000~~ 250 kw is available for a short period within the jurisdiction of the Chubu Power Distribution Co., Ltd. it is not possible to readily transmit such power to Kanto area, viewed from a technical as well as economical standpoint. It is therefore intended by the present Association to make use of the surplus power to be left available

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within the jurisdiction of the Chubu Power Distribution Co., Ltd. during the period of abundant water.

It is believed that the fertilizer production by the Ibigawa Electric Co., Ltd. will not be affected at all even if the power consumption is newly started by the present Association during the period of abundant water.

Nakatsu-cho Agricultural Association,

Takujiro Hamano
Representative

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Amount of ~~Power~~ Energy supplied by Ibigawa Electric Co., Ltd. to Chubu Power Distribution Co., Ltd. during April to September, 1947

Surveyed at Gifu Branch,
Chubu Power Distribution
Co., Ltd.

Month	Monthly Total
April,	2,808,334 kwH
May,	3,321,891 "
June,	3,344,478 "
July,	3,445,250 "
Aug.,	766,401 "
Sept.,	1,030,697 "

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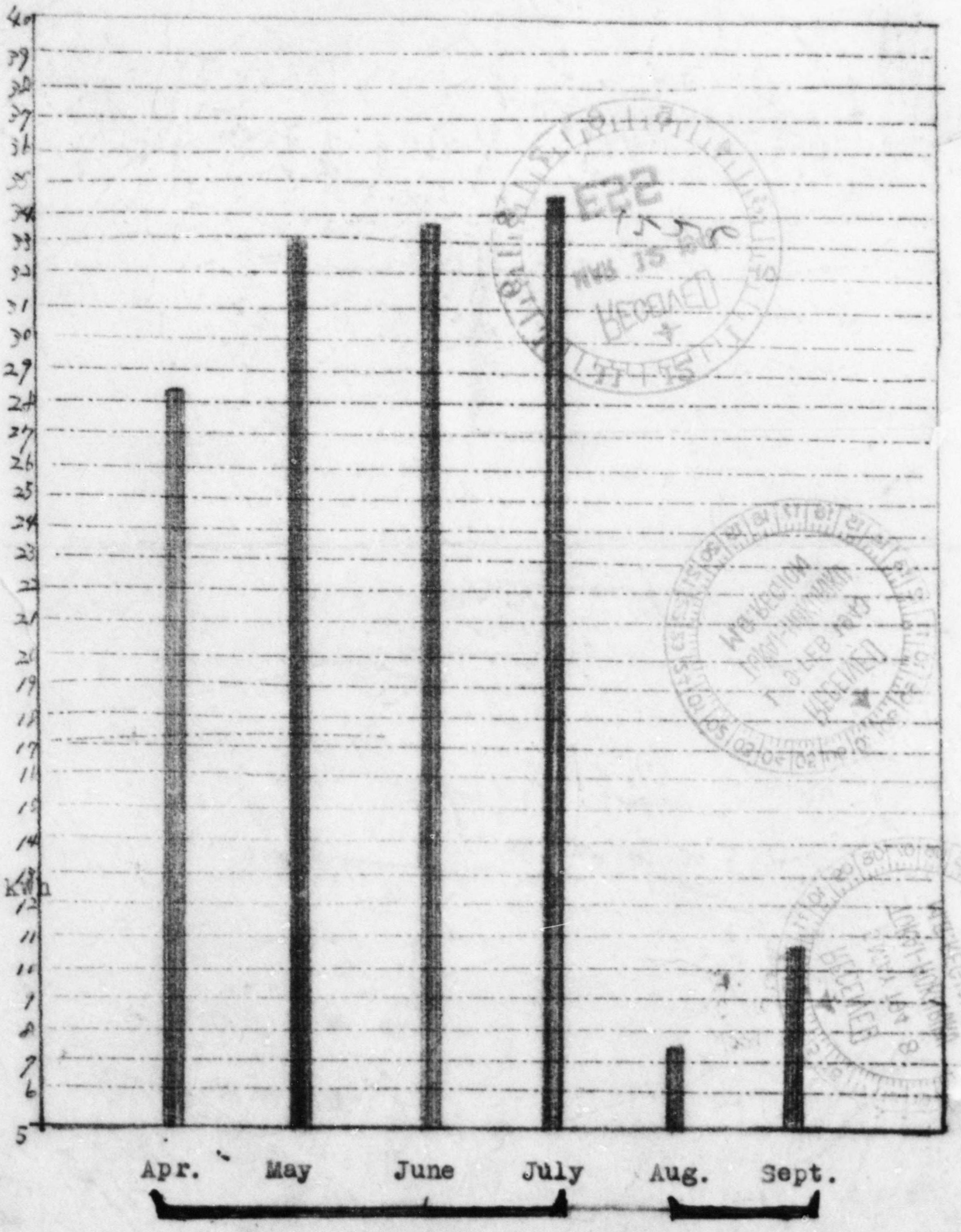
Diagram of Power Supply by Ibigawa Electric Co.
to Chubu Power Distribution Co.

(April to Sept. 1947)