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DEPARTMENT OF JUSTICE
WAR DIVISION
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REPORT ON
ISHIKAWAJIMA ENTERPRISES

January 21, 1944

Submitted by:
Ann Friedman
Foreign Economic Administration
New York, New York

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Economic Warfare Section
War Division
Department of Justice
Washington, D. C.

Confidential Report
January 21, 1944 (N.Y. #271)
Re: Ishikawajima Enterprises
Submitted by:
Ann Friedman
Foreign Economic Administration
New York, New York

REPORT ON

ISHIKAWAJIMA ENTERPRISES

I. Introduction

Tokyo Ishikawajima Zosenjo (hereafter referred to as Ishikawajima Shipbuilding) was established in 1889. Shortly after 1934, when its capital was 2,000,000 yen, Ishikawajima Shipbuilding entered the aircraft industry. (1) Two aircraft companies, Tachikawa Hikoki K. K. (Tachikawa Airplane Company) and Nippon Hikoki K. K. (Japan Airplane Company), and an automobile company, Tokyo Jidosha (Tokyo Automotive Industry), are believed to be subsidiaries of Ishikawajima Shipbuilding. (2) By 1939 the capital stock value of the parent firm had increased to 20,000,000 yen paid up and 32,000,000 yen authorized. (3)

In 1941, Ishikawajima Koku Kogyo (Ishikawajima Aircraft) was founded by the parent firm by combining a group of Ishikawajima divisions (excluding Tachikawa Hikoki and Nippon Hikoki), devoted to aircraft manufacture. (4) The capitalization in 1941 of Ishikawajima Aircraft was 25,000,000 yen, (5) and since the total authorized capital stock value of the parent firm was 32,000,000 yen in 1941, it is evident that aircraft production was a major activity of the Ishikawajima Enterprises.

Ishikawajima Aircraft's plants are located as follows:

1. Tokyo, Kyobashi-Fu, Tsukudashima cho, 54
2. Tokyo, Kyobashi ku, Shin Tsukodajima, Nishi cho, 3 chome 5
3. Tokyo, Fukagawa ku
4. Yokohama, Isogo ku, Tomioke machi, Showa cho
5. Yokohama, Tsurumi ku, Sushiro cho (sometimes called Sugita plant) (6)

Plants number 2 and 3 are engaged in the production of aircraft engines; plant number 5 produces engines and makes castings for engines. Information pertaining to the output of plant number 4 and details on plant number 1 are not available. (7)

Crankshaft blueprints found in the files indicate that double radial engines, the cylinders of which have a stroke of 150 millimeters, are being produced by Ishikawajima Aircraft. (8) Other blueprints found in the files indicate that engines are constructed with cylinder barrels of at least two sizes, i.e., one of 118 millimeter inside diameter by 233 millimeter length, and another of 130 millimeter inside diameter by 221 millimeter length. (9)

An Ishikawajima order for "10,000 gross tons of antimony for bearing metal," (10) indicates that bearing metal, and perhaps the bearings themselves, were being produced at one of Ishikawajima's plants, possibly plant number 5, which produced castings.

At Tsukijima (or Tsurishima), Tokyo, Ishikawajima Shipbuilding maintains drydocks and at least three shipbuilding slips. (11) The drydocks and slips were moved from an unspecified location to Tsukijima sometime following July, 1937. (12) Small boats were produced by this section of Ishikawajima enterprises. (13)

A factory devoted to producing large cranes was also operated by Ishikawajima Shipbuilding. The exact location of this factory is not shown by the files. However, the Oriental Economist, September, 1938, stated that a crane factory was built on the site where Ishikawajima's drydocks and slips were located previous to being moved to their present location at Tsukijima. (14)

At Tsurumi Compound, Yokohama, Ishikawajima Shipbuilding has a subsidiary, Ishikawajima Shibaura Turbine Company. This company was established by Ishikawajima Shipbuilding and the Shibaura Engineering Works in 1936. Ishikawajima Shibaura's main products were land and ship steam and water turbines for use with Shibaura generators. (15) Appendix A gives as complete a list as the files provide of orders placed by Japanese customers with Ishikawajima Shibaura during 1938 and the first part of 1940.

Between January, 1937 and December 7, 1941, Ishikawajima Shipbuilding, the parent company, including the plants which are now part of Ishikawajima Aircraft, ordered in the United States machine tools and steel products valued at \$751,000, \$461,000 of which was actually shipped to Japan. \$153,000 of these orders were placed by the Watari Japanese Naval Purchasing Commission, which indicates some sort of interest on the part of the Japanese Navy in Ishikawajima's output.

In the tabulations that follow, destinations of orders, according to Ishikawajima's plants, are indicated where such information is available. In these instances, type of production and the city in which the plant is located, are stated in parenthesis under the column entitled "Product".

Appendix B contains a summary of orders placed by Japanese companies with Ishikawajima Shipbuilding between 1938 and the middle of 1941. Appendix C is a statistical summary of Ishikawajima business handled through Mitsui Bussan Kaisha.

This report is one of a series based on the files of the Japanese trading companies, Mitsui Bussan Kaisha, Mitsubishi Shoji Kaisha, Ataka & Company, and Okura & Company. These files are now kept by the Alien Property Custodian at a warehouse located at 27 Cliff St., New York City.

II. Recapitulation of Orders and Inquiries
Placed in the United States

Grinding Machines.

Orders.

2	Wicaco Standard Internal Precision Grinders
1	Lees-Bradner 2 H.S. Gear Grinder
3	Norton 10x36" Type C Grinding Machines
2	" 16x72" " " " "
2	" #2 Hydraulic Universal Tool & Cutter Grinder
5	" 6" x 18" Type C Plain Grinding Machines
2	" #1 Universal Tool & Cutter Grinders
7	Bryant #5A Heavy Duty Semi-Automatic Grinders
1	" #16 - 38" Hydraulic Grinder
1	" #16A - 38" Hole & Face Grinder
1	Excello Special #35 Precision Grinder
2	Heald #25A 24" Rotary Surface Grinding Machines
2	" #74 Plain Internal Grinding Machines
1	" #81 Hi-Center Plain Internal Centerless Grinder
2	" #72A-3 Plain Internal Grinding Machines
2	" #73 Airplane Cylinder Grinding Machines
1	" #172 Gap Internal Grinding Machine
2	Cincinnati #2 Centerless Grinders
2	" 12" x 48" Universal Self Contained Grinder
1	Landis Metric 6" C Type Valve Face Grinding Machine
2	Pratt & Whitney R-6 Keller Cutter & Radius Grinders
1	Rowbottom #325 Combination Cam Grinding & Milling Machine
<u>45</u>	

Boring Machines.

Orders.

1	Excello Style #2112-A Precision Boring Machine
2	Heald #47A Borematic Precision Boring Machines
<u>3</u>	

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Drills.

Orders.

3 Chicago Pneumatic #34-B Air Drills
5 Cincinnati-Bickford 3 ft. Plain Radial Drills
1 National Automatic Model B, Type 16 Natco Multiple Driller
8 " Automatic D13HU Hole-Units
2 Gifford Universal Crankshaft Oil Hole Drilling Machines
1 Excello Special One-Way Drilling Machine
20

Lathes.

Orders.

8 Warner & Swasey #3A Universal Hollow Hexagon Turret Lathes
5 " " " #2A Universal Hollow Lathes, M-510
1 Bullard 16" 8-Spindle Type D Mult-au-matic Lathe
1 " Type J7 8-Spindle Mult-au-matic Lathe
5 Lipe 12" x 18" Porter Cable Carbo Hydraulic Lathes
20

Inquiries.

4 Jones & Lamson #3 Ram Type Turret Lathes

Milling Machines.

Orders.

1 Hall Planetary Thread Milling Machine
2 Kearney & Trecker #3K Universal Milling Machines
2 " " " #2H Plain Milling Machines
2 Cincinnati #3 Plain High Speed Dial Type Milling Machines
7

Inquiries.

2 Kearney & Trecker Milwaukee #1848 Duplex Milling Machines

Hobbers & Shapers

Orders.

1 Newark #3 Universal Hobbing Machine
1 Gleason 12" Straight Bevel Gear Generator
2

Inquiries.

1 Gould & Eberhardt #24H Universal Manufacturing Type Gear
Hobbing Machine 4.

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Steel Products.

Orders.

1,000 Tons Mild Steel Plate (Bethlehem)
4 Propeller Shafts (Bethlehem)
12 Intermediate Shafts (Bethlehem)
171 Pcs. Steel Boiler Plate, Flange Quality (U.S. Steel)

Inquiries.

1,000 Tons Ship Plates
37 Forged Steel Rotor Shafts (Mesta)
26 Forged Steel Tires (Mesta)
8 Forged Steel Columns (Mesta)
25 Forged Steel Shafts (Mesta, U. S. Steel & Bethlehem)

Miscellaneous.

Orders.

1 Hannifin 17 1/2 Ton Portable York Riveter & Power Unit
13 Chicago Pneumatic #80 Boyer Standard Long Stroke Riveting
Hammers
1 Cincinnati Centerless Lapping Machine

III. Orders Placed in the United States

A. Through Mitsubishi Shoji Kaisha.

<u>Order Number</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No.</u>	<u>Product</u>	<u>Price</u>
9251	12/26/39	Rowbottom Machinery	1	#325 Combination cam milling and grinding machine for double ring cam used in air- plane engine	\$7,230.00
9256	1/3/40	Wicaco Machine	2	Standard internal preci- sion grinders with attachments	11,480.09
9266		Lees-Bradner	1	2 HS Gear grinder	11,571.75

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B. Through Mitsui Bussen Kaisha.

Order Number	Date	Manufacturer	No.	Product	Price
MF 3743 EO 3057	6/7/40	Norton	2	10x36" Type C plain grinding machines	\$10,374.00 C (16)
MF 3744 EO 3058	6/7/40	Norton	1	16x72" raised to 26" Type C grinding machine for roughing and finishing pins of airplane crankshaft (drawing) (17)	22,089.21 C
MF 3745 EO 3024	6/5/40	Excello	1	Style #2112-A precision boring machine	2,422.60 C
TO 3018 EO 1765	3/4/40 9/19/39	Bryant	4	#5A heavy duty semi-automatic grinder for rocker arms (drawing)(17)	24,398.00 C
TO 3019 EO 1762	9/25/39 9/19/39	Bryant	1	#16 - 38" hy- draulic grinder for carrying wheel slide into posi- tion (drawing)(17)	8,379.00 C
TO 3020 EO 1764 rev.	5/9/40 6/20/40	Bryant	1 2	#5A heavy duty semi-automatic grinder for rocker arm #5A heavy duty semi-automatic grinder for cam rolls (drawing)(17)	18,334.05
TO 3040 EO 3120	3/18/38 3/19/38	Norton	1	#2 Hydraulic universal tool and cutter grinder	1,982.20
TO 3189 EO 1922	3/22/40 10/23/39	Norton	3	6"x18" Type C plain grinding machines	9,518.08 C
EO 1922 add'l	5/1/40	Norton		Additional equipment	342.00 C

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Order Number	Date	Manufacturer	No.	Product	Price
TO 3199 EO 1683	10/18/39 9/9/37	Warner & Swasey	3	#3A Universal hollow hexagon turret lathes	\$21,816.00
EO 1689	9/11/39	Warner & Swasey	5	#3A Universal hollow hexagon turret lathes	36,360.00 (18)
EO 1689A	12/26/39	Warner & Swasey		Additional equipment for 2 lathes	3,342.60
TO 3428 EO 2278	3/6/40 12/22/39	Excello	1	Special #35 precision grinder for crankshaft and cylinder barrel designed to swing 19" diameter (drawing)(17)	17,451.95
EO 2278	9/19/40	Excello add'l		Additional equipment	1,754.20
TO 3429 EO 2137	4/7/40	Leland Gifford	2	Universal crankshaft oil hole drilling machines	9,177.00
TO 3431 EO 2132	5/7/40 11/21/39	Norton	1	16"x72" raised to 26" type C grinding machine to be used for roughing and finishing pins of airplane crankshaft (drawing)(17)	19,329.46 C
TO 3432 EO 2311	5/7/40 12/22/39	Excello	1	Special one-way drilling machine to drill and taper ream 16 holes on aero engine crankcase (drawing)(17)	8,087.52
TO 3434 EO 2266	5/7/40 11/24/39	Bullard	1	16" 8-spindle type D multi-automatic lathe, single spindle with column 12" higher than standard (drawing)(17)	32,215.80 C

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Order Number	Date	Manufacturer	No.	Product	Price
TO 3435 EO 2267	5/7/40 11/24/39	Bullard	1	Type J-7 8-spindle multi- automatic lathe to be used for tappet guide (drawing)(17)	\$14,778.88 C
EO 2267 add'l	11/24/39	General Electric	3	Motors	250.00
TO 3449 EO 3789	11/11/38 11/17/38	Norton	1 1 1	6x18" hydraulic surface grinding machine Wet grinding arrangement Motor	1,286.80
TO 3468 EO 2914/ 15/16/ 17/18	5/7/40 3/29/40	Warner & Swasey	5	#2A Universal hollow hexagon lathes M-510 (3 $\frac{1}{2}$ "x36 $\frac{1}{2}$ " Cap.) (20" swing)	30,195.00 C
EO 2914/ 15/16/ 17/18	4/12/40 add'l	Warner & Swasey		Additional equipment	7,321.50 C
EO 2914/ 15/16/ 17/18 add'l #2	4/12/40	General Electric	5	Motors	637.50
TO 3469 EO 2437	4/2/40 12/29/39	Hall Planetary	1	Thread milling machine for cylinder head (drawing)(17)	7,425.00 C
EO 2437 add'l	4/27/40	General Electric	1	Motor	105.40
TO 3504 EO 1706	5/18/40 12/29/39	Kearney & Trecker	2	#3K Universal milling machines	14,935.00

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Order Number	Date	Manufacturer	No.	Product	Price
TO 3529 EO 2257 rev.	3/28/40 2/28/40	Norton	1	10"x36" type C plain grinding machine	\$4,716.75 C
EO 2257 add'l	4/29/40	Norton		Additional equipment	1,112.45 C
EO 2257 add'l #2	4/29/40	General Electric	3	Motors	122.50
EO 2257 add'l #3	8/2/40	Norton	1	Special L.H. spindle attach- ment with air operated draw rod and sleeve for holding cylinder barrel of airplane	2,200.20 C
TO 3532 EO 1933	3/6/37 2/24/37	Norton	1	#2 Tool and cutter grinder	1,334.50
TO 3532 EO 1934	3/6/37 2/24/37	Norton	1	6"x18" hydraulic surface grinder	917.35
TO 3532 EO 1935	3/6/37 2/24/37	Norton	2	#1 Universal tool and cutter grinders	1,420.57
EO 1935 add'l	3/19/37	Norton		Additional equipment	558.45
TO 3659		Hannifin	1	17½ ton portable York riveter and power unit (Order not placed)	
TO 3705 EO 2343	5/7/40 1/5/40	Bryant	1	#16-A 38" hole and face grinder, for master rod (drawing)(17)	11,224.25 C
TO 3945 EO 2116	5/5/37	Kearney & Trecker	1	#2H plain milling machine	3,076.20
TO 3951 EO 2143	8/4/37 4/26/37	Kearney & Trecker	1	#2H vertical milling machine	3,610.35

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O. Through Ataka & Co.

<u>Order Number</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No.</u>	<u>Product</u>	<u>Price</u>
4651	3/11/36	Chicago Pneumatic Tool	13	#80 Boyer standard long stroke riveting hammers	\$1,052.21
			3	#34-B air drills	
6015	4/7/39	Gleason	1	12" straight bevel gear generator	8,384.64
6175	9/28/39	Heald	2	#25A 24" rotary surface grinding machines (Destination Hatsudoki-bu [motor division] Yokohama)	12,920.98
6176	9/28/39	Heald	2	#74 plain internal grinding machines (Destina- tion Hatsudoki-Bu [motor division] Yokohama)	15,297.73
6216	10/2/39	Heald	1	#81 Hi-center plain internal centerless grinder (Destination Hatsudoki-Bu [motor division] Yokohama)	8,143.00
6304	10/26/39	Heald	2	#72-A-3 plain internal grinding machines (Destina- tion Hatsudoki-Bu [motor division] Tokyo)	18,915.93
6596	5/21/40	Heald	2	#73 airplane cylinder grinding machines (Destina- tion Kokuki-Bu [aircraft division] Yokohama	19,824.16

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Order Number	Date	Manufacturer	No.	Product	Price
6597	5/21/40	Heald	1	#172 gap internal grinding machine (Destination Kokuki-Bu [aircraft division] Yokohama)	\$9,578.03
6598	5/21/40	Heald	1	#47A "borematic" precision boring machine	4,287.61
6463	12/29/39	Heald	2	#47A "borematic" precision boring machine (Destination Hatsudoki-Bu - could be either Tokyo or Yokohama)	8,344.90
<u>D. Through Okura & Co.</u>					
11289	4/28/37	Bethlehem	1,000	Tons mild steel plate	81,142.32
11290	4/8/37	U.S. Steel	171	Pieces steel boiler plate flange quality, tensile strength not less than 44 kg., elongation not less than 20%	22,397.69
12053	10/3/39	Cincinnati Grinders	1	Centerless lapping machine	10,760.00
12054	10/3/39	Cincinnati Grinders	2	#2 centerless grinders	14,350.00
12064	11/16/39	Cincinnati-Bickford Tool	5	3 feet super service, high speed, all geared, plain radial drills, 9" diameter column, 9 spindle speeds in head, 4 feeds	12,940.00

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Order Number	Date	Manufacturer	No.	Product	Price
12109	12/26/39	National Automatic Tool Machine	1	Model B, type 16 Natco multiple driller	\$5,740.00
12119	10/13/39	Bethlehem	2	Propellor shafts 271 mm. diameter x 12,000 mm. long	4,721.50
			6	Intermediate shafts	
12211	2/5/40	W.C.Lipe	5	12"x18" Porter cable carbo hydraulic lathes	25,100.00
12213	2/5/40	Cincinnati Milling Machine	2	#3 plain high speed dial type milling machines	16,730.00 C
12237	2/15/40	Landis	1	Metric 6" C type valve face grinding machine	6,600.00 C
12269	4/24/40	National Automatic Tool	8	D13HU hole-units	28,097.40
12423	10/29/40	Ekstrand & Tholand	6	Tons welding wire rods	1,904.00
23349		Bethlehem	5	Propellor shafts, 271 mm. constant diameter x 12,000 mm. long	10,309.81
			12	Intermediate shafts	
23818	9/10/40	American Smelting & Refining	10	Gross tons antimony for bearing metal	3,360.00 C
W-418	2/3/40	Pratt & Whitney	2	R-6 Keller cutter and radius grinders (Destination shipyards at Tsurishima, Tokyo)	3,031.90

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Order Number	Date	Manufacturer	No.	Product	Price
W-461	12/19/39	Newark Gear Cutting	1	#3 Universal hobbing machine (Destination Shipyards at Tsurishima, Tokyo)	\$5,990.28 C
W-472	1/4/40	Cincinnati Grinders	1	12" x 48" universal self contained grinder	7,573.15 C
W-472 add'l	2/6/40	Cincinnati Grinders	2	Truing diamonds	78.72 C

IV. Inquiries Placed in the United States

A. Through Mitsui Bussan Kaisha.

Inquiry Number	Date	Manufacturer	No.	Product	Price
TE 2603	8/23/39	Photostat Corp.	1	Model #1 photostat	
TE 3526	11/26/40	Kearney & Trecker	2	Heavy duty vertical spindle attachments	\$1,320.50
TE 3530	6/15/39	Kearney & Trecker	2	Milwaukee #1848 duplex milling machines	14,510.00
TE 3533	6/15/39	Gould & Eberhardt	1	#24H Universal manufacturing type gear hobbing machine	5,450.00
VI-22		Jones & Lamson	4	#3 Ram type turret lathes	

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B. Through Okura & Co.

Inquiry

Number Date Manufacturer No. Product Price

4834 9/12/39 Mesta 5 Forged steel rotor shafts,
580 mm. diameter 2290 mm.
length
8 Forged steel rotor shafts,
550 mm. diameter 2185 mm.
length
8 Forged steel rotor shafts,
640 mm. diameter 2310 mm.
length
8 Forged steel rotor shafts,
522 mm. diameter 2025 mm.
length
8 Forged steel rotor shafts,
630 mm. diameter 2090 mm.
length (drawing)(19)

Above were for pressure
chambers of marine steam
turbine motors

4835 9/12/39 Mesta 16 Forged steel tires, 2120 mm.
outside diameter 290 mm.
width for 2400 H.P. marine
steam turbine
8 Forged steel shafts, 370 mm.
main diameter, 2290 mm.
length for 2400 H.P. marine
steam turbine
10 Forged tires 2490 mm, out-
side diameter 2300 mm,
inside diameter 370 mm,
width for 3500 H.P. marine
steam turbine
5 Forged steel shafts, 410 mm,
main diameter, 2510 mm,
length for 3500 H.P. marine
steam turbines (19) (drawing)

4837 9/12/39 Mesta 4 Forged steel columns for
3000 ton press
4 Forged steel columns for
4000 ton press

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<u>Inquiry Number</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No.</u>	<u>Product</u>	<u>Price</u>
4855	10/18/39	U. S. Steel & Midvale	4	Forged steel shafts for 2000 ton hydraulic press columns	
			4	Forged steel shafts for 4000 ton hydraulic press columns	
4862		Bethlehem, U. S. Steel, Mesta	4	Forged steel shafts for 3000 ton hydraulic press column	
5058			1,000	Tons ship plates 6 mm. - 22 mm. thick and 6' - 30' long	

Appendix A.

Orders Placed With Ishikawajima Shibaura Turbine Co.
By Japanese Customers

The following tabulation is based on a Confidential Report of the Machinery Division of Mitsui Bussan Kaisha, Japan, for the period April 1 - September 30, 1938; Report of the Machinery Section of Mitsui Bussan Kaisha, Osaka, for the last part of 1938; and a Confidential Report of the Engineering Department, Japan, of Mitsui Bussan Kaisha for the first period of 1940.

No.	Product	Customer	Price
1	Turbine Generator	Korean Electric Power	¥1,074,000
	Oil contract-breakers for power stations	Hokkaido Hydro-Electric Power	104,050
1	Turbogenerator	Rodai Mining	281,561
1	25,000 KW Turbine generator	Chosen Electric Co.	1,074,000
5880	Pieces condensor tube	Chosen Electric Co.	60,720
	Repairs on 1 12,000 KW Turbine generator	Shanghai Spinning	33,872
2	1500 KW turbines	Japan Nitrogen	
1	400 KW Turbogenerator	Hsing Chung Co.	
44	Steam turbines	South Manchurian Railroad	
3	1300 KW Turbogenerators	Manchurian Electric Industry	
2	33500 ""	" " " "	
1	7500 ""	" " " "	
2	1500 ""	" " " "	
1	10000 ""	" " " "	
1	15000 ""	Meng Chiang Electric Industry	
		" " " "	
Total:			¥ 2,628,203

Appendix B

Orders Placed With Ishikawajima Shipbuilding
By Japanese Customers

The following tabulation is based on reports sent by the Osaka Machinery & Engineering sections of Mitsui Bussan Kaisha to Mitsui Bussan Kaisha, New York. The reports cover 1938, the first half of 1939, 1940 and the first half of 1941.

No.	Product	Customer	Price
1	800 H.P. Hydraulic pressure pump *	Manchuria Sumitomo Metal	¥ 168,300
1	Air pressure machine	Maizura Arsenal	195,076
1	Electric operated crane	Sumitomo Metal	620,000
1	9-Ton cable crane	Nihon Nitrogenous Manure Co.	319,140
6	8.5 metric ton jib cranes	Korea & Manchuria Oryorko Hydro-Electric Co.	907,170
1	9 metric ton cable crane	Korea & Manchuria	255,500
1	Set rails and accessories,	Oryorko Hydro-Electric Co.)	48,930
1	60 metric ton cast pan crane	Sumitomo Metal	157,000
1	20 metric ton forging crane	Sumitomo Metal	53,350
1	30 metric ton travelling electric crane	Sumitomo Metal	47,500
1	120 H.P. air compressor	Sumitomo Metal	33,140
1	Piece belt conveyor	Kansei Common Fire Power Electric Manufacturing Co. (Steam Generating Plant)	39,980

No.	Product	Customer	Price
1	Complete set bridges	Choko Chikko Jimusho Harbor Construction Office	¥ 145,157
2	Travelling cranes	Onada Cement Co.	180,000
2	10 Cubic feet metal mining ships	Manchurian Metal Mining	2,233,120
4	Racking cranes	Manchurian Railway	630,000
1	Set of parts for pressing and stretching	Nippon Seitetsu	1,487,554
3	Winches for 700 ton ore smelting furnace	Nippon Seitetsu	869,295
	Parts for hot broad belt steel roller	Nippon Seitetsu	828,818
8	5 Ton cranes	Nippon Seitetsu	1,400,000
8	140 Ton ladle foundry conveyors	Nippon Seitetsu	1,380,000
2	5 Ton cranes for handling coal on piers	Nippon Seitetsu	355,000
6	Jib cranes	Oryokko Hydro-Electric	907,170
1	Cable Crane	" " "	255,500
1	Set belt conveyors and bridge type coal moving cranes	Seibu United Coal Power	553,500
7	Stripping cranes	Showa Steel Works	1,128,000
1	Ladle crane	Sumitomo Metals	157,000
1	30 Ton travelling crane	Manchuria Sumitomo Metal	82,600
1	Turret type crane assembling work	Maizuru Navy Arsenal	24,225
1	Travelling crane - 21 stands	Sumitomo Metal	488,660
1	5 Ton stationary derrick crane	Sumitomo Metal	38,570

No.	Product	Customer	Price
1	1½ ton charging	Sumitomo Metal	¥ 67,500
1	200 ton welding crane	Sumitomo Metal	39,800
1	400 ton vertical folding press	Sumitomo Metal	930,000
	Air compressor	Sumitomo Metal	37,000
6	Ventilators	Maituru Naval Ordnance Department	44,490
2	Liquid coolers		17,892
1	2 ton electric crane	Sumitomo Industry	77,010
2	2400 H.P. Marine turbines *	Tama Shipbuilders	588,710
1	Gold Mining Boat	Manchu Gold Mine	3,114,000
	Boring accessories	Manchu Coal Mine	55,850
24	Roller gate winding machines	Hankow Hydroelectric	
10	Water gate manufacturing machines and winding machinery	Manchukuo Government	
2	Pig casting machines	Japan Iron	
3	Cranes	Showa Steel	
4	Cranes	Hokkaido Artificial Petroleum	
7	Hydraulic pressure pumps and cranes	Japan Iron	
1	Crane	Amagasaki Artificial Petroleum	
2	Cranes	Kurihara Co.	
	Transporter	Sumitomo Metal	260,000
1	5 ton Crane	Sumitomo Metal	74,410
1	2 ton conveyer crane	Sumitomo Metal	64,500

No.	Product	Customer	Price
1	1 Ton conveyer crane	Sumitomo Metal	¥ 17,800
1	20 Ton casting crane	Sumitomo Metal	41,500
	Turbine and adjustable speed equipment for blower *	Administration Bureau, Navy Department	45,780
	Turbine for water supply pump *		25,600
3	Water heaters) Administration Bureau,) Navy Department	18,495
2	Water supply pumps		20,600
6	Turbines for blow machine and gear down equipment *)	139,416
2	Turbines for water supply)	21,790
8	Lifters	Sumitomo Metal	2,158,800
2	800 H.P. high pressure pumps *	Sumitomo Metal	236,700
1	5 Ton fixed derrick crane	Sumitomo Metal	490,226
1	500 ton hydraulic forging machine (completion date: March 31, 1942)	Tominaga Steel Works	1,400,000
1	20 ton forging crane (completion date: October 31, 1942)	Sumitomo Metal	380,500
1	50 Ton forging crane (completion 16 months after contract was made)	Tominaga Steel Works	687,095
1	80 ton forging crane		

Total: ¥ 27,044,731

* Manufacturer translated as "Tokyo Ishikawajima Shipyard" but manufacturer probably was Ishikawajima Shibaura Turbine Co.

Exhibit C

Ishikawajima Business Handled Through
Mitsui Bussan Kaisha, 1936-1940, in Japan.

The figures below are very ambiguous. They were translated from a Mitsui Japanese document entitled "Engineering Special #11", but unfortunately the document does not state whether the figures represent sales, purchases, or both. To use Mitsui terminology, Ishikawajima maintained "friendly relations", in contrast to "agency relations", with Mitsui Bussan Kaisha. Therefore, the figures undoubtedly do not cover all of Ishikawajima's sales, purchases, or both, but they do convey a suggestion of the trend of the amounts of Ishikawajima business handled through Mitsui.

Japanese Manufacturer	1936	1937	1938	1939	1940	Total
Ishikawa- jima-Shi- baura Tur- bine Co.	¥ 342,646	¥6,804,821	¥11,529,934	¥ 5,151,618	¥10,852,255	¥34,681,274
Tokyo Ishikawa- jima Ship- building	¥7,513,635	¥8,821,466	¥23,404,524	¥15,799,222	¥22,685,992	¥78,224,839

Footnotes

1. Teiko Ginko Kaisha Yoroku (Directory of Banks and Companies for the Whole Country), 44th Edition, published July, 1940, as quoted by John Williams in notes from which "A Directory of Certain Japanese Industrial Companies", OEW, August, 1943, was compiled.
2. Toyo Keizai Shimpo (Oriental Economist) September 3, 1938 and September, 1939, as quoted by John Williams in notes from which "A Directory of Certain Japanese Industrial Companies", OEW, August, 1943, was compiled.
3. Same as 1.
4. Company Reports, July, 1941, as quoted by John Williams in notes from which "A Directory of Certain Japanese Industrial Companies", OEW, August, 1943, was compiled.
5. Ibid.
6. Directory of Banks and Companies for the Whole Country, 44th Edition, July, 1940; Kabushiki Kaisha Nenkan (Corporations Yearbook), October, 1940; and Koku Nenkan (Aviation Yearbook), 1938 and 1939 as quoted by John Williams in notes from which "A Directory of Certain Japanese Industrial Companies", OEW, August, 1943, was compiled.
7. Ibid.
8. See Mitsui Orders Number TO 3428, TO 3431, TO 3432, MF 3744.
9. See Mitsui Orders Number TO 3434 and TO 3469.
10. See Okura Order Number 23818.
11. Oriental Economist, September, 1938 as quoted by John Williams in notes from which "A Directory of Certain Japanese Industrial Companies", OEW, August, 1943, was compiled.
12. Ibid.
13. Kabushiki Kaisha Nenkan (Corporations Yearbook), October, 1940 as quoted by John Williams in notes from which "A Directory of Certain Japanese Industrial Companies", OEW, August, 1943, was compiled.
14. Same as 9.

15. "Report on the Tokyo Shibaura Electric Company, Japan", Department of Justice Report #NY 236, by A.S.B. Nolting, November 23, 1943, pp. 70-71.
16. "C" indicates that order was cancelled.
17. "Drawing" indicates that Japanese blueprint of part to be made is in files.
18. Only two of the five machines were shipped to Japan.
19. "Drawing" indicates that Japanese blueprints are in the files indicating the manner in which steel products were to be used.

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SUPPLEMENT TO ISHIKAWAJIMA ENTERPRISES

Tokyo Ishikawajima Shipbuilding

Orders Through Mitsui Bussan Kaisha.

Order Number	Date	Manufacturer	No.	Product	Price
TO 3278 EO 1693E	2/2/40	Bullard	1	36" Vertical turret lathe	\$9,333.95
EO 1693E add'l	10/23/39	Bullard		Additional equipment	665.00
EO 1693E add'l	10/25/39	General Electric	1	Motor	225.99
TO 3430 EO 2131	4/15/40 11/21/39	Norton	2	#2 Universal tool and cutter grinding machine	4,447.60
TO 3558 EO 1985	3/12/37 3/12/37	Independent Pneumatic Tool	50	Hexagon Shank diesel blanks	29.75

Ishikawajima Shibaura Turbine Co.

Orders Through Mitsui Bussan Kaisha.

TO 71 EO 2419	1/11/40 12/28/39	Heppenstall	3	Turbine shafts	\$13,375.38 (1)
			37	Turbine Discs	
TO 104 EO 2874	4/5/40 3/21/40	Heppenstall	2	Turbine shafts	9,146.85 (2)
			26	Turbine Discs	
TO 123 EO 3170	6/5/40 6/29/40	Heppenstall	1	Turbine shaft	4,484.31
			7	Turbine Discs (Drawings)(3)	
TO 3308	10/10/38	Kearney & Trecker	1	#4 Milwaukee Model K plain milling machine	6,118.74
add'l	9/15/38	General Electric	1	Motor	120.00

I.

Orders Through Okura & Co.

<u>Order Number</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No.</u>	<u>Product</u>	<u>Price</u>
12348	8/6/40	Bethlehem Steel	16	Pcs. Boiler Plate, Fire Box Quality	\$14,965.33

Inquiries Through Okura & Co.

<u>Inquiry Number</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No.</u>	<u>Product</u>	<u>Price</u>
4833	9/13/39		1	Rotor Shaft (Dwng.)	
4845	9/20/39		25	Sets Steam Headers (Dwng.)	
4892 & 4893	11/28/39	Combustion Engineering	63	Sets Staggered Headers (Dwng.)	

Footnotes

- (1) Letter from Mitsui, Tokyo, to Mitsui, New York, dated October 9, 1939, indicates that these shafts and discs were for use in turbines Ishikawajima Shibaura was constructing for Manshu Dengyo K. (Manshu Electric Industry), Manchuria.
- (2) Tokyo order form for TO 104 states that the shafts and discs were to be used in turbines ordered by Mokyō Dengyo Co., Mongolia, from Ishikawajima Shibaura.
- (3) "Dwng." indicates that Japanese blueprints are in the files indicating manner in which steel products were to be used.

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JAPANESE FILES RESEARCH PROJECT

CONFIDENTIAL REPORT
DEPARTMENT OF JUSTICE
FILE 60-0-28
NUMBER 3356

21 Feb 44

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1944

