

RESTRICTED

SHAREHOLDERS OF NIPPON IRON & STEEL COMPANY LTD.

(As of May 26, 1943).

Total Number of Shares (of 50 Yen each) 16,000,000.

<u>Shareholders</u>	<u>Number of Shares</u>
Minister of Finance	9,094,240
Minister of Communications:	
out of postal life insurance reserve fund	381,200
out of postal annuity reserve fund	262,800
Wartime Finance Treasury, Inc.	16,448
Total Governmental	<hr/> 9,754,688
Private Shareholders:-	
Kamaishi Ore Mining Co., Ltd.	299,900
Teikoku Life Insurance Co., Ltd.	235,000
Yawata Mutual Relief Association of Japan Iron & Steel	160,000
Sumitomo Metal Industry Co., Ltd.	159,840
Kawasaki Heavy Industry Co., Ltd.	159,680
Yasuda Savings Bank, Ltd.	152,230
Daiichi Conscription Life Insurance Co., Ltd.	150,000
Mitsubishi Metal Mining Co., Ltd.	148,400
Mitsubishi Heavy Industry Co., Ltd.	130,000
Chiyoda Mutual Life Insurance Co.	118,950
Nippon Life Insurance Co., Ltd.	110,400
Inland Savings Bank, Ltd.	98,440
Mitsubishi Headquarters, Ltd. (Mitsubishi Honsha, Ltd.)	97,840
Yasuda Life Insurance Co., Ltd.	88,000
Osaka Savings Bank, Ltd.	80,000
Nippon Conscription Life Insurance Co., Ltd.	76,680
Meiji Life Insurance Co., Ltd.	67,040
Yasuda Bank, Ltd.	47,283
Shiga Mutual Financing Co., Ltd. (Shiga Mujin)	45,620
Fukushima Prefecture Agricultural and Industrial Bank, Ltd.	43,000
Nomura Trust Co., Ltd.	42,700
Osaka Daido Life Insurance Co., Ltd.	38,600
Niigata Prefecture Educational Mutual Help Association	38,100
Osaka Mutual Credit Co., Ltd. (Osaka Mujin Kaisha)	35,790
Nippon Investment Trust Co., Ltd.	32,050
Sumitomo Bank, Ltd.	31,200
Daiichi Mutual Life Insurance Co.	28,200
Yokohama Credit Enhance Bank, Ltd. (Yokohama Koshin Ginko)	27,510
Daihyaku Conscription Life Insurance Co., Ltd.	27,000
Settsu Savings Bank, Ltd.	26,160
Ibaraki Agricultural and Industrial Bank, Ltd.	26,000
Fukoku Conscription Life Insurance Co., Ltd.	25,000
Mitsui Life Insurance Co., Ltd.	25,000
Fifteenth Bank, Ltd.	24,000
Oita Consolidated Bank, Ltd.	22,700
Tonan Savings Bank, Ltd.	22,700
Hiroshima Mutual Financing Co., Ltd.	22,550
Hyogo Bank, Ltd.	21,200

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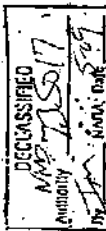
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Kinki Mutual Financing Co., Ltd. (kinki Mujin)	21,055
Nomura Life Insurance Co., Ltd.	21,000
Sumitomo Life Insurance Co., Ltd.	20,000
Nippon Immovable Property Co., Ltd.	19,575
Kure Mutual Financing Co., Ltd.	19,460
Yasuda Security Corporation (Yasuda Hozensha)	18,579
Fukuoka Savings Bank, Ltd.	17,750
Eighty Second Bank, Ltd.	17,430
Naoki Mori (individual person)	17,380
Mitsubishi Trading Co., Ltd.	17,000
Nippon Savings Bank, Ltd.	16,000
Dai-Nippon Mutual Financing Co.	15,800
Tokai Bank, Ltd.	15,200
Nippon Kyoritsu Mutual Financing Co., Ltd.	15,000
Gifu Savings Bank, Ltd.	14,880
Suruga Bank, Ltd.	14,400
Sumitomo Trust Co., Ltd.	14,080
Kawagoye Savings Bank, Ltd.	14,020
Kanagawa Mutual Financing Co., Ltd.	14,000
Aichi Prefecture Agricultural & Industrial Bank, Ltd.	14,000
(Hokkaido) Colonial Mutual Financing Co., Ltd.	13,200
Miyazaki Mutual Financing Co., Ltd.	12,500
Nagasaki Mutual Financing Co., Ltd.	12,350
Geibi Bank, Ltd.	12,000
Taisho Marine & Fire Insurance Co., Ltd.	12,000
Fourth Bank, Ltd.	11,860
Communications Mutual Relief Association.	11,430
Doai Kinen Hospital, Inc.	11,200
Iyo Consolidated Bank, Ltd.	10,750
Seikei School (Foundation)	10,500
Yoshichika Tokugawa	10,400
Koki Mutual Financing Co., Ltd.	10,100
Nippon Yusen Kaisha, Ltd. (Japan Mail Steamship Co., Ltd.)	10,000
Mitsubishi Bank, Ltd.	10,000
Meiji Metal Mining Co., Ltd.	10,000
Yasukawa-Matsumoto Kaisha, Inc.	10,000
Wakamatsu Harbor Work Co., Ltd.	10,000
TOTAL, 75 subscribers of 10,000 shares & upwards each	<u>3,509,662</u>
Total of other private subscribers:	
19,330 persons (141.5 shares per person average)	<u>2,735,650</u>
GRAND TOTAL	<u>16,000,000</u>
19,408 subscribers	

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1. BUSINESS DEPARTMENT

a. Raw Material Section - buying essential raw supplies.

(1) Fuel - Coal buying now 1500 tons/day. Normal production 10,000 tons/day. Coke selling now 1500 tons/day. Normal production 10,000 tons/day. Are selling little now - 200 tons/day. Normal 10,000 tons/day. Powder ore (sintering) now 150 tons/day.

(a) Electric power - all of which is produced is reconsumed

(b) Gas power - partially reconsumed, surplus supplies company's dormitories.

(2) Mill- buys and distributes raw materials to consuming agencies and prepares raw materials for production.

(3) Adjustment - statements of purchase - personal affairs and selling of unnecessary products i. e. wasts.

b. supply section

(1) Procurement - buying and dispensing of all miscellaneous supplies and materials.

(a) Tools - Labor and machine

(b) Machines - Production machines and vehicles.

(c) Chemical materials - for by product dept.

(d) Hospital - supplies

(e) Timber - maintenance of bldgs.

(2) Storing - keeping on hand ample miscellaneous supplies necessary for production.

(a) 5 warehouses - each containing related stores

2 stock yards - containing sundry supplies not damageable by weather.

(3) Utilization - preparing waste material for reuse - e. g. collecting soot from chimnies, processed chemically moulded into brick form and distributed to employees for home use of fuel.

(4) Rehabilitation - personal affairs
Correspondance
Rationing of supplies

c. Manufactured goods Section - storing and selling of all finished or saleable products:

- (1) Steel rod - rails
Concrete reinforcements
Rivets
Beams for bldg and bridge construction
- (2) Steel plate - special steel - airplanes and armor discontinued since cessation of hostilities.
- (3) By product - Tar
Benzol - fuel substitute (gasoline)
Dye
Pitch
Slag bricks - used in paving
- (4) Delivery - complete arrangements for shipping including insurance and issuance of invoices.
- (5) Storing - storing of saleable products in
 1. Warehouses (4)
 2. Stock yard (1)
- (6) Office Work - personal affairs
correspondence
drafting reports and statements of statistics

2. TRANSPORTATION DEPARTMENT - has at its disposal 49 (4 ton) motor trucks
25 ships 170 steam locomotives 8 electric locomotives 3618
freight cars and 361 km of track.

a. Business Section: drafting of plans a week in advance of all necessary transportation for complete loading and unloading of materials and products both within confines of Iron Works and without confines of Iron Works.

- (1) Internal traffic: making arrangements for movement of products and material by motor, rail and boat within confines of Iron Works.
- (2) External traffic: making arrangements for movement of products and material chiefly by rail and ship to places without the confines of Iron Works.
- (3) Maintenance - keep all transportation in working order.
- (4) Office Work - personal affairs
correspondance
insurance
calculating custom and freight charges.

b. Land transportation

- (1) West Yawata traffic - handles outgoing and incoming transportation for Imperial Govt. Railroad Inc.
- (2) Ushita traffic - transports inter-works stock yard products and disposal soot ashes etc.

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c. Land Transportation

- (1) Higashita traffic - mainly melted pig iron - slag coke - Internal traffic by mail
- (2) Takami traffic - mainly ingots and hard semi - manufactured steel - Internal traffic by motor and rail.
- (3) Makiyama traffic - manufactured steel only to warehouse at Makiyama - External traffic by ship.
- (4) Tobata traffic - mainly coke, slag, dirt and waste to either storage or disposal (usually into the sea)

d. Railroad Section

- (1) Track maintenance - continual maintenance of all track by sections (361 km in all)
 - (a) Eastern Section - maintenance
 - (b) Western Section - maintenance
 - (c) Tobata Section - maintenance
- (2) Signal Section - manual and electric.
 - (a) Eastern Section
 - (b) Western Section
- (3) Engineering Section - sole construction of buildings directly affiliated with railroads - surveying for extension or repairing of track.
- (4) Office work - personal affairs
correspondance

e. Harbor Traffic Section

- (1) Harbor affairs - loading and unloading iron ore, coal, coke, limestone.
- (2) Harbor Affairs - loading manufactured goods.
- (3) Harbor control - mooring of large ships by tug boats (2) police by steam launches rapid inter harbor transportation by ferry boats (2)
- (4) Office work - personal affairs

3. SHIPPING DEPARTMENT

a. Harbor section - complete control of entries and clearance of ships and regulating supplies of coal, water and provisions necessary for operation.

- (1) maritime - discipline of seamen; investigation and estimation of damage ships and plans for repairing same. Encouragement and assistance of Ordinary Seament Training Institute.

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(2) Harbor assist in mooring and navigation of ships by use of tug and fer. boats.

(3) Voyage 1) arrangement for shipping space granted on 1 of 25 ships controlled by Shipping Controlling Ass'n. (conjecture by department head Heitaro Yokoyama that soon this association would be liquidated under 25 ships would return to Yawata Iron Works)
2) Purchase of ship accessories.

(4) Office - personal affairs
correspondance

b. wooden Boat section - 42 independent wooden boats

(1) Voyage - arranging operation of these boats used for transporting limestone - coal - iron ore -
TO:

(a) Hirohata (Honshu) to Nippon Iron Work. takes limestone and coal to Huhata and returns with Iron ore - approx 300 miles each way

(b) Fukimi (Kyushu) goes empty and returns with iron ore - approx 125 miles each way.

(2) Supervision - complete maintenance of all wooden boats within Iron Works; rarely is there any need for outside repairing.

(3) Office Work - personal affairs
ship charters
financial calculation (expense)

c. Ordinary Seamens Training Institute:

(1) Student body - maximum of 120 boys (15 years old) who are employees of the Iron Works and have completed primary schooling.

(2) curriculum -

(a) Three months training in:
Navigation
Engineering

(b) Practical training aboard ship for a minimum of three years at the end of which period the best are chosen to take an exam, the passing of which merits them a govt certificate of seamanship - they then are qualified officers and engineers.

Note: At present, 60 students former graduates of school taking refresher to enable them to pass examination for government certificate.

4. ENGINEERING DEPARTMENT

a. Engineering Section

(1) Execution - receive orders from other mills examines order and adds instruction and passes it on to proper sub-section; when order complete sub-section notifies this section and they inturn notify receiving mill and plan delivery.

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- (2) Mater: - arrangements for procuring materials necessary to fill orders, they act directly on instructions of the Execution Section.
 - (3) Efficiency - devise plans and means to increase efficiency, new designs and inventions are products of this department; they also encourage initiative of this nature by proffering awards.
 - (4) Office Work - correspondances personal affairs.
- b. Drafting Section - devises and draws up all plans for original production and improvements.
- (1) Machinery Drafting - planning for all individual machines.
 - (2) Rolling Machine Drafting - planning for all plane rolling devices.
 - (3) Roll Drafting - planning for a specialized rolling process to form beams of intricate design.
 - (4) Furnace Drafting - planning complete furnace units plus installation.
 - (5) Machinery Standardization - planning for the standardization into one machine units of similiar but not identical design.
 - (6) Office Affairs - Correspondance and personal affairs.
- c. Costing Section -
- (1) Wooden mold set in clay to imprint formation for the final pouring and casting. e. g. building beams. "I" beams.
 - (2) Okura steel Casting - cast parts for other machines operating within the plant.
 - (3) Wakohara Iron Casting - pig iron and cast iron parts, exclusively, for machinery operating within the plant.
 - (4) Wakohara steel Casting - under construction, improvement on Okura steel casting.
 - (5) Wakohara Alloy - casts parts containing steel, brass etc., at present non existence all alloy casting being taken care of by Okura steel casting.
 - (6) Furnace Construction - self explanatory.
 - (7) Engineering Section - advisory technical staff and chief of cast section.
 - (8) Office Affairs - personal affairs and correspondance.
- d. Mechanical Engineering Section -
- (1) Okura repairing - repairs rolling mills and other mills which are highly mechanized in the Okura district only.

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- (2) Tool - manufacturing machine tools and jigs.
- (3) Tobata Repairing - duties same as Okura repairing but confined to Tobata district.
- (4) Nakohara Machinery - manufactures new machine parts and repairs old.
- (5) Nittelite - a substitute for bearing metal, invented by Nippon Mfg Co., not fit for high speed machinery - contains formalin, which makes it self - lubricating - normal production rate 5 ton/month - at present 1/10 ton/month.
- (6) Automobiles Repairing - a mechanic section for maintenance of plants automobile fleet.
- (7) Rivet Manufacturing - self explanatory - rated capacity 60 tons/day - present production 1/3 ton/day.
- (8) Welding Rod - rods 400 mm long and 3 mm in diameter used in the welding process - normal production 400,000 rods/month - present production less than 10,000 rods/month.
- (9) Testing Dept - runs tests to detect deficiencies and formulate improvements.
- (10) Engineering Section - advisory technical staff and chief engineers.
- (11) Office Affairs - personal affairs and correspondence.

e. Iron Engineering Section *

- (1) Doyama Manufacturing - receives iron and steel plates for finishing, for boiler plates, beams for buildings and roofs, piping etc.
- (2) Doyama Repairing - repairs locomotives engines exclusively, little repairing on moveable cranes and large liquid iron.
- (3) Higashida Repairing - general repairs for district of Higashida - receive finished products from Doyama and installed them.
- (4) Mayeda repairing - same duties as Higashida but for Mayeda district only.
- (5) Kukioka Repairing - same duties as Higashida but for Kukioka district only.
- (6) Engineering - advisory technical staff and the chief of section.
- (7) Office Work - personal affairs and correspondence.

f. Roll section

- (1) Doyama Casting - cast rolls from iron and manufacture molds for steel ingot - normal production 1000 ton rolls/month - present 100 ton rolls/month.
- (2) Doyama Lathe - non existent.

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- (3) Nakaha Casting - same as Doyama, its purpose is to replace Doyama.
- (4) Nakahara Lathe - lathe finished products and correct size and finish cast iron rolls.
- (5) Quality of Material - research for improvement of material produced by rolling section.
- (6) Engineering - advisory technical staff to chief of section.
- (7) Office Work - personal affairs, correspondence.

g. Forging Section -

- (1) Okura Forging - forge machinery parts by means of steam hammer, capacity 150 tons/month - present production 30 tons/month.
- (2) Nakahara Forging - designed for forging of large size rolls, incomplete and construction is stopped,
- (3) Iron Pipe - produces and installs all pipes less than 12 inches in diameter, used for water, steam, gas, etc.
- (4) Nakahara Heat Treatment - heat treatment to harden and finish rolls - not working at present.
- (5) Office Work - personal affairs and correspondence.

h. Construction Section - established for construction of new plants in Nakahara, but will be abolished in near future.

5. CIVIL ENGINEERING DEPARTMENT

a. Civil Engineering Section

- (1) Civil Engineering - construction and planning of foundations of mills and factories and factory residences - road, bridge, rail and river construction.
- (2) Harbor - construction of all harbor facilities such as dredges, land extension by controlling waste deposits into sea.
- (3) Engineering - collects materials and labor needed for construction, supplies all construction essentials.
- (4) Office Affairs - personal affairs, correspondence.

b. Tobata Civil Engineering Section

- (1) Tobata Civil Engineering - construction and planning of foundation of mills and factories in the Tobata Civil Engineering.
- (2) Tobata Construction - construction of all engineering facilities in the Tobata area.
- (3) Engineering - supplies material and labor needed for construction department.
- (4) Office Affairs - personal affairs and correspondence.

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c. Construction section -

- (1) Eastern Section, Construction - construction of mills, residences and all buildings needed in Eastern section. Maintenance and repair.
- (2) Western Section Construction - same as construction in Eastern section, but in Western section of Iron Works.
- (3) Engineering - supplies material and labor needed for construction departments.
- (4) Office Affairs - personal affairs and correspondence.

d. Water work section -

- (1) Water supply - furnished water for whole plant for all uses - system included a purification station capable of purifying 20 tons/minute. Water consists of 70% sea water 15% pure water; 15% reused water.
- (2) Water Work - construction and maintenance of all water works and sewerage disposal into sea.
- (3) Office Work - personal affairs and correspondence.

e. Planning Section -

- (1) Engineering planning - plans for civil engineering works - water works included in plans is actual drawing up of plans.
- (2) Construction planning - plans for building construction of all type building of entire plant.
- (3) Surveying - conduct surveys for construction of all work done by engineering and planning sections - staff of 15 men, 1 of whom is a college graduate.
- (4) Office Affairs - personal affairs and correspondence.

6. EDUCATIONAL BUREAU -

a. Technical Trng. Institute - students are college graduates and are trained in a specific field for 1 year. -e.g. Surveying Dept.

b. Workman Trng. Institute - firms workers with elementary schooling. They receive 2 years training and become skilled labor.

c. Educational Research Room -
Section I -

- (1) Lectures to woman employees in the nature of home economics.
- (2) Education of employees in a short time to facilitate their transfer from one department to another.

Section II - composes edits and prints books for texts used in Technical Trng. Inst., and Workmans Training Institute.

d. First young mans school, for younger boys general education, with emphasis on military training - at present abolished.

e. Second young mens school - for older boys general education, with emphasis on military training - at present abolished.

f. Girls school - of a similar nature as young mens school with a feminine touch.

g. Archives Section - deals with the study of records and compiling of past records.

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7. TECHNICAL RESEARCH INSTITUTE.

a. section of General Affairs - deals with all general affairs, including library work.

b. The Works Shop Section - manufacture of all apparatus preparation of specimen, and taking photographs.

c. The Physical Laboratory - studies iron and steel from the standpoint of physics. The present equipment comprises various x-ray and temperature calibration by experiment.

d. Chemical Laboratory - research on lubrication oils and byproducts of the Iron Works, as well as a general experimental study in chemicals in general. Recent objects of study are, a waterproof medium, a grease and the value of fish oil as a lubricant.

e. Pig Iron Laboratory - determination of the basic conditions to improve the working efficiency of the blast furnaces. At present investigation the treatment of raw ore, improvement of the charging method and the formation of tuyeret. Typical appliances are 2 - 3 ton blast furnaces.

f. Steel Laboratory - melting and rolling steel and the properties of steel, e. g. rapid analysis of phosphorus and silicon and analysis of gases contained in steel.

g. Materials Test Laboratory - experiments with the mechanical properties fatigue test and creep test of metallic materials. Equipment (8) strength testing machines (1) 10 ton creep testing machine

h. Roll Laboratory - studies the quality and fabrication of the material for rolls used in steel shop rolling.

i. Refractories Laboratory - studies material for furnace construction and special refractories.

j. General information - this institute was established 29 June 1916; the present employees strength as of 1 Oct 1945 is 381, including both skilled and semi skilled engineers. The employees are housed in official residences. The purpose of the institute is limited to those current problems which have direct bearing on the Iron Works production rate and efficiency. Operating expense for fiscal year of 1944 was 2,761,352.

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8. CHEMICAL INDUSTRY DEPARTMENT -*

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a. Chemical Manufacture Goods Section -

(1) Higashita #1 manuf. goods - deals exclusively in manufacture of benzol. Output 1941 (Prewar) 2,333 tons/month - 1942 (During war) 2,333 tons/month - Sept 1945 (Present) 225 tons/month.

(2) Higashita #2 Mfg goods - deals exclusively in manufacture of pitch. Output 1941 (Prewar) 7000 tons/month - 1942 (During War) 7,500 tons/month - Sept 1945 (Present) 510 tons/month.

(3) Dooku #1 Mfg. goods - deal exclusively in manufacture of creosote oil. Output 1941 (Prewar) 3,333 tons/month - 1942 (During War) 3,177 tons/month - Sept 1945 (Present) 60 tons/month.

(4) Dooku #2 Mfg. goods - deals exclusively in manufacture of Napthalene - output 1941 (Prewar) 583 tons/month - 1942 (During War) 1083 tons/month - Sept 1945 (Present) 0 tons/month.

(5) Tobata Mfg goods: is an organization of all four which at present is not operating.

(6) Testing Section - is a complete chemical analysis of all products of this section.

(7) Engineering - is to maintain all machinery of this section.

(8) Office Affairs personal affairs and correspondance.

NOTE: Employee strength, War time 877 employees, present time 425 employees.

b. First Ceramic Section -

(1) Blast Furnace Cement - construction cement. (Prewar) 1940 234,000 tons/month - 1942 (During War) 188,000 tons/year. Present none.

(2) Dolomite - used in steel manufacture. 1940 (Prewar) 4,500 tons/month. - 1942 (During War) 5,250 tons/month - Sept 1945 (Present) 117 tons/month.

(3) Slag Brick - used for re-refinement. 1940 (Prewar) 88,000 tons/year - 1942 (During War) 78,000 tons/year - Present-none.

(4) Testing - analyzation of all products of this section.

(5) Engineering - maintain and repair all machinery of this section.

(6) Office Affairs - personal affairs and correspondance

NOTE: Employee strength - Wartime 488 employees - Present time 245 employees.

c. Second Ceramic Section -

(1) Silica brick - used for bldg construction. 1940 (Prewar) 4,161 tons/month - 1943 (During War) 4,661 tcns/month - Sept 1945 (Present) 210 tons/month.

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- (2) Clay brick - bldg construction - 1940 (prewar) 3,583 tons/month - 1943 (during war) 4,583 tons/month - Sept: 1945 (Present) 20 tons/month.
- (3) Manganese brick - bldg construction - 1940 (prewar) 1,175 tons/month - 1943 (during war) 1000 tons/month - Sept 1945 (Present) 217 tons/month.
- (4) Material - preparation of raw materials for production.
- (5) Testing - physical tests to determine durability of products.
- (6) Adjustment - to control rate of consumption and rate of supply or production to limit reserve.
- (7) Engineering - maintenance of all sections machinery.
- (8) Office Affairs - personal affairs correspondence.

9. HEALTH DEPARTMENT - very important and busy department due to many communicable diseases contracted; main type disease respiratory; secondary venereal.

- a. Health Preservation section - responsible for all measure of sanitation in life and working conditions for the preservation of the health and general improvement of sanitary conditions.
- b. Sanitation section - deals mainly with sanitary sewerage and waste disposal - insect control etc.

10. SUPERVISION DEPARTMENT - controls all measures promulgated in a supervisory capacity.

a. Investigation section

- (1) Investigates discharge of employees finding out reason and if approving, arranging release.
- (2) Investigate general improvement on up keep of plant and all persons and machines and buildings.
- (3) Investigate all printed matter coming out of printing dept, to make necessary correction and filing records.

b. Invention and Design -

- (1) Improvement of all product methods, plus individual improvements in machines, tools etc.
- (2) To redesign for better operation of machines and to bring out-moded and fatigued equipment up to date and increase their production capacity.

c. Mill Health Section -

- (1) Investigation of production decreases and below standard production - attributing causes are mainly two 1st - lack of adequate or up to standard raw material. 2nd - sickness.

d. safety section - Investigate cause and conditions of the occurrence of all accidents. Main causes - 1 (improper safety regulations and violations of existing regulations. 2) carelessness. Casualty List: 1 Jan 43 - 1 Jan 44 - 1 Sept 45 5,361.

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e. Health Insurance - To control an insurance fund built up by a monthly monetary deduction from every employee's salary. This is used in cases of financial emergency of sickness, disease, accident etc. Plant doctors need not be consulted - if outside doctor used, bill is sent directly to this section.

f. Health Supervision - Supervise the health condition of all employees to direct those in need of medical attention to plant hospital. Majority falling in this category are tuberculosis cases due to unsatisfactory working conditions. At present 43 have T. B. 598 likely to have T. B. 773 are now in stages of T. B.

Patients in this condition are committed to the sanatorium of the Plant Hospital for observation and treatment - after cure they are approved by government official, then return to their jobs only doing light duty. N. B. Their pay continues while hospitalized at normal rate.

g. Mill Sanitation - General measures to preserve and improve sanitary conditions within the mill e. g. inspect medical supplies and facilities, disposal of trash, and inspect all drinking water.

h. General Affairs -

(1) To investigate and control all cases demanding isolation and to commit to a ward where spread of disease is controlled. e.g. main case at present is Grevas - disease of the epidermis starting in between fingers and spreading.

i. Raw Material Examination -

(1) To examine all raw materials for defects which would decrease production, if unsatisfactory it is refused and returned. Other raw materials coming under this section's jurisdiction paper for office work, lumber, machinery, and all tools.

(2) Chemically analyze all finished products and pick up any flaws in production or below standard products e.g. coal, iron ore, steel plate beams etc.

(3) A union of all plant engineers for consultation and improvements of all working machinery in all departments.

(4) To advise all departments in construction of bldgs. etc.

11. HOSPITAL:

a. Surgical Dept - self explanatory.

b. Internal Disease - respiratory, intestinal and pulmonary.

c. Nose, Ear and Throat - self explanatory.

d. Skin Disease - handles all skin disease plus Venereal disease (V. D. cases average 15 per day at present)

e. Obstetrics - self explanatory - 3 expectant mothers at present.

f. Infant - all patients under 15 yrs old.

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g. Dentistry - strument outmoded.

h. ~~Pneum~~ Infection - produce gas mask for use in open hearth and blast furnace departments.

i. Consulting Rooms (Clinics)

- (1) Okura - 100 Patients/day
- (2) Nayeda - 55 patients/day
- (3) Tobata - 46 patients/day
- (4) 1 clinic in Mill #1 29 patients/day
- (5) 1 clinic in Mill #2 7 patients/day
- (6) Dayoma - none at present.
- (7) Kukroka - none at present.

N. B. These clinics are spread throughout the city and employees present and past are encouraged to use them.

j. Organisation of Hospital

Dr. Saburo - Vice Chief

Dr. Ghohe Muramatsu - Pharmaciaal Dept.

Staff of Doctors, 40 (at present) increase of twenty expected from Army and Navy.

Staff of Nurses: 242 - reside at hospital, fed clothed and paid by hospital. pay 30 yen/month. 75 student Nurses pay, 15 yen/month.

Daily turnover of Patients - war 3000/day, present 1,500/day

facilities for 100 bed patients.

Operating Rooms (2) x-ray machines (3) one being especially for cancer.

Heat treatment machine (10) different types.

N. B. Little damage by air raid.

- (1) Nurse dormitory - burned to ground.
- (2) Recreation building burned to ground.
(New one now existing)

General Opinion:

Hospital very unsanitary, no heat, no sterilization equipment, poor lighting facilities - equipment 3 -5years (duty) far below our standards of a modern hospital.

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Manufacturing Process Diagram
For the Main Products of YAWATA Iron Works

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		Flat Rectangular Round	Ingot Ingot Ingot	Blooming Mill	Slab Rectangular Billet Round Billet Sheet Bar
Blast Furnace--Pig Iron--Open Hearth					
Slab	Heavy Plate Rolling Mill Medium Plate Rolling Mill Strip Mill			Heavy Plate Medium Plate Sheet & Tin Plate	
	Rod and Rail			Beam (Height over 4") Channel (Height over 4") Angle (side length over 4") Bar (Diam over 4") Rail (over 16 lb/ft) Sheet Pile	
	Large Shape Mill			Beam (Height 2"-4") Channel (Height 2"-4") Angle (Side length 2"-4") Rod Bar (up to 16 lb/ft) T T Shape (Height 2"-4") Z Z Shape (Height 2"-4") Rectangular Bar (side length 2"-4") Fish Plate (all kind)	
	Medium Shape Mill			Angle (Height under 2") T T Shape (Height under 2") Rectangular Bar (side under 2") Sheet Bar--Tin Plate Mill Spike Nut Bolt Rivet Washer	
Rectangular Billet	Small Shape Mill		Rod--	Bolt & Nut Plant	
	Wire Rod Mill			Wire and Rod	
	Medium Steel Plant Mill			Sheet Steel (1/8" - 1/4" thick) Art Metal (1/24"-1/8" thick)	
Round Billet	Tire Mill			Tire	
Electric Furnace	Special Steel Ingot-Blooming Mill-			Sheet Bar Silicon Sheet Mill Silicon Sheet Steel Rectangular Billet Small Shape Rolling Mill Rod Wire Drawing Mill	Ball Bear- ing Rod Wire
Inclosure #6					

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Blast Furnace

Coke Oven	Coke	Other minor uses	Fuel gas - to mills
	Coke Oven Gas	By-product Plant	Crude gas
			Tar
	Heavy Oil		Crude Anthracene
			Kresolt Oil
			Crude Naphthaline
	Medium Oil		Carbolic Acid
			Kresol
			Kreosolt
Tar and Crude Gas			Benzene
	Light Oil		Toluol
			Xylol
			Solvent Naphtha
			Pridin
	Pitch		Pitch Coke
	Pavement Tar		
	Ammonia Sulphate Plant		Ammonia Sulphate

Sulphric Acid Plant-----Sulphric Acid

Refractory and Cement Plant	Cement
	Slag gravel
	Refractory brick
	Slag brick
	Silica brick
	Chrome brick
	Magnesite brick
	Clay brick
	Dolomite brick
	Caustic Lime
	Mortar
	Dolomite

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ROLLING STOCK OF THE YAWATA WORKS

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Date: 11/11/09

Locomotive Engines

<u>Total Owned</u>	<u>Of Which Damaged</u>	<u>Balance Usable</u>
182	59	123

NOTE: 4 of the above are electric driven engines and all the 4 are in usable condition.

Freight Cars

	<u>Total Owned</u>	<u>Of Which Damaged</u>	<u>Balance Usable</u>
Open cars	3305	300	3005
Covered cars	17	--	17
Tank cars	10	--	10
Others of various types	<u>286</u>	<u>61</u>	<u>225</u>
TOTAL	<u>3618</u>	<u>361</u>	<u>3257</u>

Automobiles

	<u>Total Owned</u>	<u>Of Which Damaged</u>	<u>Balance Usable</u>
Passenger	21	12	9
Buses	11	8	3
Ambulances	2	1	1
Trucks	85	50	35

NOTE: Of the nine passenger cars usable, four are being used by the Occupation Forces.

Inclosure #7

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Monthly Outputs, from Jan. 1937 to Sept. 1945
of The VAWATA Works

Date	Pig Iron (gram ton)	Total (gram ton)	Rolled steel Consume.				Total
			Army	Navy	Air	Civilian	
1937							
Jan	113,080	192,459	3,002	10,207		136,901	150,110
Feb	108,781	167,513	5,911	10,101		132,505	148,517
Mar	133,789	190,264	9,662	11,584		139,785	161,041
April	136,973	192,561	5,932	11,112		131,258	148,302
May	140,259	193,241	6,317	12,002		139,607	157,926
June	127,823	183,638	8,462	13,200		127,580	148,242
July	125,176	176,607	8,444	11,682		120,622	140,748
Aug	128,564	170,905	7,012	10,752		99,110	116,874
Sept	114,651	169,590	10,359	13,078		106,053	129,490
Oct	118,339	174,359	20,574	23,201		102,145	145,920
Nov	104,439	171,426	17,584	21,745		94,904	134,233
Dec	114,883	197,159	17,840	23,365		116,673	157,878
1938							
Jan	125,576	207,345	21,269	29,203		118,333	168,805
Feb	111,460	183,302	19,437	24,443		103,370	147,250
Mar	127,392	210,081	23,430	29,587		113,157	166,174
April	118,459	197,656	26,195	27,313		106,220	159,728
May	131,508	203,778	34,332	29,130		109,934	173,396
June	122,903	195,773	37,404	29,004		92,087	158,495
July	126,656	194,098	31,471	26,176		93,660	151,307
Aug	124,750	182,192	26,799	27,952		89,334	144,085
Sept	122,816	191,360	30,007	25,608		101,493	157,108
Oct	131,463	193,400	31,608	27,777		100,253	159,638
Nov	133,701	192,298	32,587	27,621		94,971	155,179
Dec	148,591	200,526	31,390	30,062		104,637	166,089
1939							
Jan	149,225	211,016	32,879	28,063		105,116	166,058
Feb	137,980	195,253	33,377	26,237		104,690	164,304
Mar	156,447	217,099	36,609	38,326		115,742	190,677
April	152,626	196,883	34,342	31,740		107,365	173,447
May	153,376	206,102	33,710	25,238		117,545	176,493
June	158,714	206,629	34,542	23,357		106,587	164,486
July	149,341	189,948	30,832	22,934		98,120	151,886
Aug	141,328	182,766	31,523	20,611		99,419	151,553
Sept	138,572	185,027	33,027	23,921		103,551	160,544
Oct	146,579	204,093	33,601	24,205		101,441	159,247
Nov	147,001	196,710	37,233	27,215		102,519	166,967
Dec	156,387	211,851	35,854	29,993		106,530	172,377
1940							
Jan	142,719	205,251	33,057	27,280		100,137	160,474
Feb	128,341	195,853	35,886	26,788		97,507	159,981
Mar	136,239	212,139	34,351	38,102		106,190	178,643
April	143,771	202,172	30,876	30,469		98,261	159,606
May	146,938	205,744	32,297	32,763		98,826	163,886
June	136,284	194,262	31,951	27,498		102,852	162,301
July	133,994	193,694	30,404	22,316		90,646	148,366
Aug	136,321	193,344	30,947	22,774		101,462	155,183
Sept	133,794	191,431	27,630	30,543		108,032	166,205
Oct	133,222	188,536	27,810	24,393		104,281	156,484
Nov	128,403	197,673	30,023	25,746		98,891	154,660
Dec	141,590	214,094	32,640	30,764		97,308	160,534

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1941	Jan	115,196	200,240	37,678	35,662	91,444	167,784
	Feb	110,539	186,671	31,089	39,582	6,046	158,716
	Mar	161,496	213,707	27,260	42,645	102,724	172,629
	April	154,368	213,356	26,454	29,356	98,280	164,090
	May	160,164	212,460	31,522	35,183	91,923	158,628
	June	148,842	199,572	29,144	31,536	88,276	148,956
	July	147,101	194,584	30,658	30,090	81,252	142,000
	Aug	151,173	204,089	34,139	37,242	69,858	141,239
	Sept	143,670	198,023	43,244	33,327	87,478	164,049
	Oct	134,403	196,690	34,837	30,738	80,839	146,414
	Nov	133,289	208,314	40,979	37,152	81,689	159,820
	Dec	134,752	208,659	40,344	45,281	84,606	170,231

1942	Jan	134,425	207,502	44,844	45,200	87,912	177,956
	Feb	134,859	194,336	39,927	34,611	86,072	160,610
	Mar	151,071	211,843	47,398	45,929	90,389	183,716
	April	142,974	202,514	37,120	50,425	76,706	164,251
	May	146,447	206,160	22,933	45,334	109,514	177,781
	June	142,867	194,476	29,900	49,645	108,508	188,053
	July	138,722	188,066	17,161	37,134	93,651	147,946
	Aug	134,793	171,183	13,702	36,588	95,482	145,772
	Sept	139,451	184,511	17,641	34,929	123,844	176,414
	Oct	151,726	201,087	16,968	34,101	113,674	164,743
	Nov	145,461	193,158	20,891	35,882	102,705	159,478
	Dec	154,694	217,880	19,423	49,038	123,847	192,308

1943	Jan	155,820	214,736	18,037	44,209	114,590	176,836
	Feb	133,434	190,415	15,416	44,095	106,262	165,773
	Mar	159,890	218,130	17,365	47,441	111,218	179,024
	April	138,322	192,929	17,153	44,966	104,424	166,543
	May	144,493	202,203	22,412	45,508	103,164	171,084
	June	131,933	190,834	20,099	40,991	97,177	158,267
	July	131,648	197,904	32,225	36,805	100,579	169,609
	Aug	134,492	191,117	31,459	38,156	86,124	155,739
	Sept	134,808	187,635	27,751	43,402	90,195	161,348
	Oct	150,478	199,289	27,531	34,413	87,682	149,626
	Nov	137,172	200,321	25,687	33,114	95,941	154,742
	Dec	138,128	212,028	27,563	52,045	91,595	171,203

1944	Jan	138,671	210,847	27,808	36,850	105,947	170,605
	Feb	128,696	195,951	15,373	41,338	114,108	170,819
	Mar	134,523	208,539	17,380	51,962	108,005	177,347
	April	126,377	191,301	13,721	28,815	24,851	152,462
	May	129,315	191,824	18,060	20,937	25,092	159,828
	June	116,344	162,459	13,849	25,092	16,497	129,439
	July	107,749	147,050	11,582	22,940	22,153	112,455
	Aug	68,923	102,372	10,213	19,170	6,678	78,566
	Sept	75,161	108,459	10,376	10,794	14,973	69,642
	Oct	96,359	142,241	11,521	28,367	17,716	108,689
	Nov	85,927	142,403	10,073	19,140	20,931	111,932
	Dec	100,285	151,072	12,372	8,727	17,785	110,469

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1945							
Jan	85,345	140,092	13,089	12,073	18,167	69,510	112,839
Feb	68,729	118,591	11,596	9,517	18,609	44,952	84,974
Mar	56,206	102,787	18,791	11,386	21,338	28,108	79,623
April	52,536	99,731	16,960	9,318	18,904	21,856	67,038
May	45,324	82,273	14,234	4,473	14,089	18,868	51,664
June	35,145	71,321	5,765	5,011	7,297	20,219	38,292
July	29,586	61,839					42,091
Aug	6,793	12,994					8,850
Sept	412	3,970					3,310

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AMOUNT OF STEEL SOLD BY THE YAWATA WORKS

<u>DATE</u>	<u>TERMS</u>	<u>\$</u>	<u>AMOUNT SOLD</u>
1937	First half	100	161,228,843.92
	Latter half	100	162,607,618.20
1938	First Half	100	197,081,954.86
	Latter Half	100	202,136,528.18
1939	First half	100	210,580,852.90
	Latter half	100	214,024,573.95
1940	First half	100	230,821,858.50
	Latter half	100	233,446,642.24
1941	First half	100	228,821,741.43
	Latter half	100	243,362,156.12
1942	First half	100	233,369,744.48
	Latter half	100	256,288,054.58
1943	First half	100	267,642,817.74
	Latter half		306,424,100.31
1944	First half		249,505,065.37
	Latter half		222,271,766.70
1945	First half (Up to Aug 15, 1945)		99,860,143.43

Inclosure #9

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HARBOR FACILITIES OF THE YAWATA WORKS

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WHARVES

<u>NAME</u>	<u>LOCALITY</u>	<u>WATER DEPTH METER</u>	<u>LENGTH METER</u>	<u>WIDTH METER</u>	<u>SHIPS MOORABLE</u>	<u>Loading (Unloading) CAPACITY TON DAY</u>
Quay No.1-6	Makiyama	6	605	1.5	2	3000
Quay No.7-12	Central Sea-side	7	905	1.5	6	31000
Quay 13-18	Dooka South-East Shore	9	750	2.0	5	23500
Quay 19-20	Dooka East	9	300	2.0	2	16000
Nishida	Nishida	4-5	450	1.5	6	900
Dooka South	Dooka South	4-6	450	1.5	5	2100
Dooka North	North Dooka	4	100	1.8	3	600
West Yawata	West Yawata	3	800	1.8	3	300
Tobata East	East Tobata	4	350	1.8	4	800
Tobata North	North Tobata	6	200	1.8	1	1500
Tobata Commercial Harbor	Tobata	8	270	1.8	5	3300
Central Barge Assembly	Central Barge Assembly	3	1000	1.5	4	1100

BUOYS

<u>NAME</u>	<u>SHAPE</u>	<u>WATER DEPTH</u>	<u>ABLE TO MOOR</u>
Buoys A.B.C. D.E.	Round Tube	6 m.	3 ships
Buoys F.G.H. I.J.	Top	8 m.	12 ships

Central Barge Assembling Pool

is situated at the Central Sea-side, stone-walled, covering an area of 37,240 square meters, 3 meters deep. It has two floating wharves for ferries.

TUG-BOATS

Takami-Maru, 155 tons, 500 HP, oil burner, operating.) Both used for mooring and disembarking steamers.
Hosan-Maru, 142 tons, 550 HP, coal burner, operating.)

Besides the above, the Yawata Koun Kaisha (Yawata Harbor Transportation Co., Ltd.), which is under this Works' control, has the following tug-boats owned and chartered by it:-

Own 5 in all totalling 152.4 gross tons, of which
2 are in operation, (56.67 tons)
2 are under repairs and (56.18 tons)
1 is idle. (39.55 tons)

Chartered 1 15.05 gross tons now under repairs.

Inclosure #11

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CRANES

ton		
1.5 cranes		11
2.5 "		21
3.0 "		12
5.0 "		20
10.0 "		6
12.0 "		8
50.0 "		1
200.0 "		1 loader boat.
Also a belt conveyer		<u>1</u>
		<u>81</u>

BARGES

	<u>Total</u>		<u>Operating</u>		<u>Under repairs and salvaging</u>	
	<u>No.</u>	<u>Ton</u>	<u>No.</u>	<u>Ton</u>	<u>No.</u>	<u>Ton</u>
Own	205	53,980	181	48,260	24	5,720
Chartered	48	16,480	48	16,480	--	---
Total	<u>253</u>	<u>70,460</u>	<u>229</u>	<u>64,740</u>	<u>24</u>	<u>5,720</u>

TOTAL MOORING CAPACITY

11 ships of 9,000 ton class	Total	99,000 tons
9 " " 5,000 " "	"	45,000 "
6 " " 3,000 " "	"	18,000 "
3 " " 2,000 " "	"	6,000 "
1 " " 1,000 " "	"	1,000 "
Total <u>30</u>		<u>169,000 tons</u>

NOTE: One of the quays good for a 9,000-ton ship is unusable at present, with a ship stranded in front, which is now being salvaged.

LOADING OR UNLOADING CAPACITY

Total nominal capacity of cranes 84,000 tons
 Of which usable at present 60,000 "

But, in consideration of temporary hitches on cranes and lack of store yard and labor, etc., the present actual capacity is estimated at 20,000 tons a day, which consists of: -

Iron ore	7,000 tons
Coal	7,000 "
Sundry goods	1,000 " and
Manufactured goods	5,000 "

32d DIVISION ARTILLERY GROUP
OITA OCCUPATION GROUP

File-

APO 32
13 Nov 49

SUBJECT: Radio Stations in Oita Ken.

TO : Commanding General, 32d Infantry Division, APO 32.

1. So much as pertains to the Oita Broadcasting Station:
 - a. Coordinates: Location in reference to landmarks - Ikushi-Nachi, Oita City.
 - b. Function of station: Local broadcasting of programs. Agency is responsible for operation.
 - c. Station is operative.
 - d. Station is being operated by civilians.
 - e. Broadcast period: 0500-2200 daily. One transmitter; output 550 watts; frequency 700 kilocycles; audience 75,000.
2. So much as pertains to Oita Naval Radio Station.
 - a. Coordinates: (667.5-1123.5) Located 100 ft from railroad tracks and 500 yards from Ura-Kawa river.
 - b. This station was in communication with Sasabe, broadcasting messages. Upon the advice of G-2, 32d Infantry Division, the Japanese Navy was informed that this station would not be operated except with authority of Commanding General, 32d Infantry Division. No application for authority has been made.
 - c. Station is operative.
 - d. At the present time no data is available on the civilian operators.
 - e. It is operated on a frequency of 4665 kilocycles for transmission, and 6743.5 kilocycles for receiving. The station has two receivers, one transmitter run on battery power.
3. So much as pertains to Hockayama and Hobisaki Signal Stations(Saeki).
 - a. Coordinates: Hockayama (684.6-1090.1); Hobisaki (683.1-1087.6). Former station is camouflaged and is located in a tunnel directly across drill-field from headquarters of Saeki Defense Unit. Latter station is situated in a cement cave off the main road and across a rice field at the above coordinates.

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