

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

**Description of contents**

- (1) Box no. 2900
- (2) Folder title/number: (24)  
Mitsubishi Shipyard
- (3) Date: Jan. 1947

(4) Subject:

Classification	Type of record
9230	c, k

(5) Item description and comment:

Hyogo

(6) Reproduction:  Yes  No

(7) Film no.

Sheet no.

(Compiled by *National Diet Library*)



MGP 37

NAME OF PLANT, LABORATORY, OR ARSENAL:  
工場、研究所、兵艦廠ノ名稱Mitsubishi Heavy Industries, L.T.D.  
所在地 3 chome, Wadasaki-cho, Hyogo-ku, Kobe, Hyogo.SIGNATURE OF OWNER OR CUSTODIAN:  
所有者又ハ管理人ノ署名

## REPARATIONS PLANTS MATERIALS

賠償工場ノ資材

General Contractors Association of Japan

Hyogo Prefecture Branch

\*\* SIGNATURE OF LOCAL JAPANESE LIAISON OFFICER:

當該地區日本連絡官ノ署名

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—頁中ノ第—頁

DATE:

日附

Wanyo Kogyo Cal. T.

Kiroto Tanaka K. Hasegawa

MATERIAL STOCKS (NOT INSTALLED) 在庫資材表 (施設=含マレザルモノ)

ITEM DESCRIPTION 品目名稱	UNIT 單位	QUANTITY 數量	TOTAL ESTIMATED WEIGHT 見積總重量	NUMBER OF CARLOADS 積込貨車數	CONDITION 狀態	REMARKS 摘要

\* Owner or custodian to attach statement if he desires.

所有者又ハ管理人ハ必要=應ジ説明書ヲ添付ノコト.

\*\* Prefectural Japanese Liaison Officer to attach statement if he desires.

當該地區連絡官ハ必要=應ジ説明書ヲ添付ノコト.

\*\*\* Describe as New, Good, or Poor. "Good" will indicate "suitable for general use." "Poor" will indicate "not suitable for reuse."

狀態欄=ハ新品, 良品, 不良品ト記載ノコト. 良品ハ一般使用=適スルモノ. 不良品ハ再使用=適サザルモノヲ示ス.

Eight Army Printing Plant Bangkok  
2798



INSTALLED MATERIALS AND SUPPLIES 施設濟ノ資材

ITEM DESCRIPTION	UNIT	QUANTITY	TOTAL ESTIMATED WEIGHT	NUMBER OF CARLOADS	REMARKS
品目名稱	單位	數量	見積總重量	積込貨車數	摘要

地方府縣米軍軍政府係官專用欄 FOR USE BY PREFECTURAL MILITARY GOVERNMENT TEAM ONLY. STRIKE OUT WORDS NOT APPLICABLE AND FILL IN BLANK SPACES.

IS (NOT) AN ENEMY SURRENDERED FACILITY  
 IS ( ) A REPARATION FACILITY.  
 IS ( ) PRODUCING FOR OCCUPATION FORCES.  
 IF SO, GIVE PROCUREMENT DEMAND NUMBERS OR DATA REGARDING ORDERS FOR DEPENDENT HOUSING:

HAS (NOT) BEEN TURNED BACK TO HOME MINISTRY  
 IS ( ) OPERATING.  
 ANY OBJECTION TO REMOVAL OF ABOVE ITEMS: *Yes, materials are used for ship building, repairing, and production of PD items. Removal will halt work as materials are short to begin with.*

CORRESPONDENCE OR ACTION IS ( ) PENDING TO REMOVE PLANT FROM REPARATIONS LIST.  
 CORRESPONDENCE OR ACTION IS (NOT) PENDING FOR ( ) (CLOSING) THE PLANT.  
 STATEMENT AS TO WHETHER MACHINERY OR EQUIPMENT IN PLANT WILL BE JEOPARDIZED BY REMOVAL OF ABOVE ITEM:  
*Yes, removal of buildings will jeopardize machinery, as all shops are overcrowded already.*

PLANT NO.: *13-72* SERIAL NO. OF FORM: *Hyge 12* DATE: *27 Jan. 1947* MIL GOVT OFFICER: *Albert B. Holtz, Civ* PREFECTURE: *Hyogo*

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



Note of Opinions  
On Electrical Appliances Installed

Kobe Shipyard & Engine Works,  
Mitsubishi Heavy Industries Ltd.

The electrical appliances already installed are not used for transmission of the electric current to various work shops, and in case a part of the appliances should be removed, the functioning of the entire plant might at once be suspended in view of the wiring system of electricity, or at least, the plant would suffer indescribable inconveniences. The result will be that the repairing work of American ships, the <sup>work for the Occupation Forces and similar</sup> constructional other works would be obliged to stop. The matter is serious. Would you, then, give this matter your careful attention and arrange to have the electrical appliances in question excepted from the reparation claims?

Description

1. Ship-building Dept. ---- all works
2. Machine Dept. ---- all works
3. Outside work Dept. ---- Repairing shops
4. Others:  
Air-compressor, Hydraulic press,  
suction pump.



Wire	Communicator cable dimensions 24	"	200	200	1/4	Not in use because of installed underground line.
Wire	Copper 2nd class					
	1					
	2					
	3					
	6					
	14					
	33					
	54					
	60					
	100	M.	300	500	1/4	Not in use for electric power transmission lines for power and light of docks and factories.
Wire	Copper 2nd class					
	20	"	12000	300	1/2	Not in use for wireless purpose. (Broadcasting room for the premises.)
	80	"	800	500	1/2	Not in use for electric power transmission lines for power and light of docks and factories.
	150	"	1000	1000	1/2	"
	200	"	2000	2500	1/2	"
	300	"	600	1500	1/4	"
Cable	Lead	gins	0			
	High tension pin type insulator	"	300	120	1/2	"
	High tension drum type insulator	"	300	120	1/2	"
Lamp		"	3000	300	1/2	Using for illumination and hand lamps in docks area above.
	Receptacle with shade holder glow	"	30	90	1/2	Using for illumination in the office of



	2.0 mm		0			
	3.0 mm		0			
	14 mm		0			
	38 mm		0			
	50 mm		0			
	60 mm		0			
	100 mm		0			
		11	300	500 mm	1/4	Used in use for electric power transmission lines for power and light of docks and factories.
Wire	Copper 2nd class					
	2.0 mm	"	12,000	300 mm	1/2	Used in use for outdoor purpose. (Broadcasting room for the premises.)
	3.0 mm	"	800	500 mm	1/2	Used in use for electric power transmission lines for power and light of docks and factories.
	100 mm	"	10,000	1000 mm	1/2	"
	150 mm	"	3,000	3000 mm	1/2	"
	200 mm	"	500	5000 mm	1/2	"
Cable	lead	none	0			
	High tension pin type insulator 35KV	"	300	1200 mm	1/2	"
	High tension drum type insulator 35KV	"	300	1200 mm	1/2	"
Lamp		"	3000	3000 mm	1/2	Using for illumination and hand lamps in docks repair shops.
	Receptacle with shade holder glow.	"	30	100 mm	1/2	Using for illumination in the office of personnel in U.S.A. and the other offices and rooms.
	Heater 500W. 120V	"	50	1000 mm	1/2	Using for outdoor purposes. (Broadcasting room for the premises.)
	Low tension bush insulator 25	"	300	300 mm	1/2	Using for outdoor purposes same as above.
	Transformer 50 kva, 75 kva, 100 kva, 150 kva, 200 kva, 300 kva	"	30	3000 mm	2	Used for outdoor purpose power, light and other power supply to U.S. ship. etc and repairs.

PORTLAND CEMENT CO. 12000 SECTION 3-442/2000 100. 775013



ITEM DESCRIPTION	UNIT	QUANTITY	TOTAL ESTIMATED WEIGHT	NUMBER OF CARLOADS	CONDITION	REMARKS			
						ACTUAL QUANTITY OF MATERIALS USED	NAME OF WORKERS	QUANTITY	NAME OF CUSTOMERS
Lamp cord	M								
2 core	"	25000	275 kg	1/2	new	17000'	Every repairing ships.	309 ships	U.S.A. etc.
Rubber insulated	"	32672	1530	1/2	"	34500'	3700 ton Railway ferry boat.	3 ships	Traffic Dept.
							1000 ton small passenger boat.	2 ships	Small passenger boat.
							Every repairing ships.	309 ships	U.S.A. etc.
Wire Communicator	"	0							
Wire copper	Kg	95	95		new				
Conduit pipe	piece	0							
Attaching plug.	"	600	10		"	850 pi	3700 ton Railway ferry boat.	3 ships	Traffic Dept.
							1000 ton small passenger boat.	2 ships	Small passenger boat.
							Every repairing ships.	309 ships	U.S.A. etc.
Concent (bakelite)	"	38	1	1/4	"	70 pi	Every repairing ships.	309 ships	U.S.A. etc.
Concent cap (parallel bakelite)	"	39	1		"	70 pi	ditto	ditto	ditto
Cable connector	"	0							
Copper terminal	"	4218	80		new	2500 pi	Restoration of Rising-Sun factory.		Rising-Sun factory.
Cleat	"	0							
Ceiling block	"	1350	150		new	550 pi	1000 ton small passenger boat.	2 ships	Small passenger boat.
							3700 ton Railway ferry boat.	3 ships	Traffic Dept.
							3700 ton Railway ferry boat.	3 ships	Traffic Dept.
Portable hand lamp large base.	piece	400	200						
Special wire	Kg	9500	9500	1	"				
Bracket lamp (special)	piece	3200	1500	1/2	"	2200 pi	Every repairing ships.	309 ships	U.S.A. etc.
Insulator									
pipe insulator 3/8" x 5"	piece	120	5		new	160 pi	Every repairing ships.	309 ships	U.S.A. etc.
high tension pin type sharp with bolt	"	185	200		"	150 pi	ditto	ditto	ditto
							Vacuum salt producing equipment 3 ton per day.	1 set.	Oasaka Salt producing Co.

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High tension pin type large with bolt	"	165	250		"	150 pi	ditto	ditto	ditto	
High tension pin type small no bolt.	"	91	90		"	40 pi	Vacuum salt producing equipment 8 ton per day.	1 set	Onaka Salt producing Co.	
Low tension pin type white large with bolt.	"	113	120		"	113 pi	ditto	ditto	ditto	
Low tension pin type white small with bolt.	"	21	40		"	41 pi	Restoration of Rising-Sun factory.		Rising-Sun factory.	
Low tension pin type white with wooden bolt.	"	243	250		"	203 pi	ditto		ditto	
Low tension pin type white no bolt.	"	28	30		"	28 pi	ditto		ditto	
Knob insulator No 396	"	9500	1000		"	9500 pi	ditto		ditto	
	No 00	"	450	250	1	new	500 pi	Vacuum salt producing equipment 8 ton per day.	1 set	Onaka Salt producing Co.
	No 5	"	1950	600		"	2550 pi	Restoration of Rising-Sun factory.		Rising-Sun factory.
							ditto			ditto
							Vacuum salt producing equipment 8 ton per day.	1 set	Onaka Salt producing Co.	
Shackle insulator	"	463	200		"	500 pi	ditto	ditto	ditto	
Socket										
Key socket	"	50	1		"	50 pi	Every repairing ships.	309 ships	U.S.A. etc.	
W.T. socket	"	1600	370		"	500 pi	Restoration of Rising-Sun factory.		Rising-Sun factory.	
Keyless receptacle	"	118	2		"	300 pi	1/2 HP Refrigerator for U.S.A.	65 Dwt	Trade Union.	
Fuse										
Wire fuse	"	95	90		"	55 pi	Every repairing ships	309 ships	U.S.A. etc.	
Plate fuse	"	2500	3		"	2500 pi	ditto	ditto	ditto	
enclosed cartridge type renewable	"	0								
enclosed cartridge type no renewable	"	0								
Incandescent tungsten filament Lamp										
100V X 25W	piece	2400	20 Ka		new	22000 pi	1/2 HP Refrigerator for U.S.A.	65 Dwt	Trade Union.	

1925-1926  
 12265  
 775013



Fuse

wire fuse	"	95	90	"	55 pi	Emergency repairing ships	30 ships	U.S.A. etc.
plate fuse	"	250	3	"	250 pi	ditto	ditto	ditto
enclosed cartridge type renewable	"	0						
enclosed cartridge type no renewable	"	0						

Incandescent Tungsten filament Lamp

100V x 25W	pi	2000	225	new	225 pi	Walt Kapiroster for U.S.A.	65 out	Trade Union
120V x 25W		0				Chubak type cigarette		The Central Tobacco
220V x 25W		0				rolling machine.	50 out	Monopoly Bureau.
120V x 40W		0						
60W		0						
100W		0						
150W		0						
200W		0						
300W		0						

110V x 150W	"	200	3	"	200 pi	ditto	ditto	ditto
200W	"	25	1	"	25 pi	ditto	ditto	ditto
100V x 100W	"	142	2	"	142 pi	ditto	ditto	ditto
80cp	"	33	2	"	33 pi	ditto	ditto	ditto
60W	"	200	3	"	200 pi	ditto	ditto	ditto
40W	"	1065	15	"	1065 pi	Walt Kapiroster for U.S.A.	65 out	Trade Union
						Chubak type cigarette		The Central Tobacco
						rolling machine.	5 out	Monopoly Bureau.
10cp	"	3000	50	"	3000 pi	Walt Kapiroster for U.S.A.	65 out	Trade Union
30W	"	2000	50	"	2000 pi	Emergency repairing ships	30 ships	U.S.A. etc.

Tape

Black Tape	"	300	40	"	300 pi	Walt Kapiroster for U.S.A.	30 ships	Traffic Dept.
para rubber tape	"	0						

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NATIONAL BUREAU OF STANDARDS - DIVISION OF ELECTRICITY - SECTION 4-41 (REVISED 1-22-35)







775013

Description	Quantity	Unit Price	Total Price	Notes
Rock-wool				allotted for the job of new slopes
Rock-wool plate 3" x 1,000"	1	700	700	
" 5" x 1,000"	1	75	75	
" 15" x 1,000"	1	100	100	
" 10" x 610"	1	1,000	1,000	allotted for the job of new slopes and repairing slopes
" 25" x 610"	1	170	170	
" 50" x 610"	1	80	80	
Rock-wool belt 15" x 610" x 1,500"	Roll	710	710	
" 15" x 75" x 1,500"	"	270	270	
" 20" x 50" x 1,500"	"	700	700	
" 20" x 75" x 1,500"	"	1,350	1,350	
" 25" x 75" x 1,500"	"	160	160	
" 25" x 50" x 1,500"	"	700	700	
" 25" x 610" x 1,500"	"	110	110	
" 30" x 75" x 1,500"	"	740	740	
" 30" x 75" x 1,500"	"	750	750	
" 50" x 75" x 1,500"	"	280	280	
" 75" x 75" x 1,500"	"	750	750	
" 35" x 75" x 1,500"	"	300	300	
Felt for Books	Unit	1,000	1,000	
Pressure gauge 1 1/2"	Unit	55	55	
" 2"	"	62	62	
" 4"	"	305	305	
" 6"	"	60	60	
" 8"	"	67	67	
" 10"	"	78	78	
" 12"	"	15	15	
" 20"	"	51	51	
" 25"	"	43	43	1/2
" 35"	"	174	174	

allotted for the job of new slopes

allotted for

- a synchronous turbine of the Mitsubishi Heavy Ind.,
- a Mitsubishi sectional boiler of the Nippon Ironworks Co.
- a Refrigerator for U. S. Army (No. 19),
- 3 vacuum salt-making equipments of the Union of salt ind.,
- 2 industrial compressors



REGISTRATION NO. 1206 SECTION 141/5013 775013

"	5	"	67	60		Massillon Co.
"	10	"	35	35		a Refrigerator for U. S. Army (1/4 HP),
"	12	"	15	15		3 vacuum salt-making equipments of the
"	20	"	51	45		Union of salt co.
"	25	"	45	43	1/2	a Kedge salvage & repair ship
"	35	"	194	188		a railway ferry-boat of the Dept. of Traffic
"	100	"	15	13		a diesel passenger boat of the Texas Steam Ship
"	160	"	30	18		Co., and of the Kansas Steam Ship Co.,
"	200	"	84	75		and the other repairing ships of the
"	500	"	24	21		U. S. Army and etc.
Vacuum gauge		"	54	48		all reserved for new ships and repairing
Laboratory, vitreous china, rectangular, TOKU L91		"	21	250		
Small wash basin, vitreous china, TOKU L21		"	7	70		
Round wash basin, vitreous china		"	14	500		
Water closet, vitreous china		"	7	70		
Sweet feeder	1212 x 1517	"	2,800	9,892	1	reserved for new ships and other machines
Iron, malleable, 150 lbs pressure screwed black	19.05	Unit	40	20		New
"	12.7	"	130	60		collected for
"	9.5	"	27	6		a Ljungstrom turbine of the Western
Iron, malleable, 150 lbs pressure screwed black flat type	22x22x10	"	15	5		Ohio Mining Ind.,
"	50x50x51	"	46	80		3 vacuum salt-making equipments,
"	35x35x17	"	60	70		2260 K edge boat,
"	15 x 10 x 10	"	150	35		23700 K ferry boat of the Dept. of Traffic,
"	25 x 25 x 13	"	100	100		2205 diesel boat of the Texas Steam
"	11 x 11 x 12	"	80	25		Ship Co.,
"	31 x 31 x 25	"	20	15	1	41000 K diesel boat of the Kansas
Iron, malleable, 150 lbs pressure screwed flat type	51 x 97	"	10	10		Steam Ship Co.,
"	60 x 64	"	40	80		and the other repairing ships of U.
"	64 x 32	"	80	100		S. Army and etc.



	17 x 17 x 13	"	90	25
	38 x 38 x 25	"	20	15
Tees, malleable, 150 lb pressure screwed flat type	51 x 39	"	10	10
"	64 x 54	"	90	80
"	64 x 38	"	80	100
Globe valve with brass flange (brass) 5" diam	13"	"	96	182
"	17	"	74	270
"	25	"	123	475
"	16" diam	"	173	500
"	19	"	26	110
"	25	"	28	80
Bushing malleable 150 lb pressure black	25" x 19"	"	20	6
"	31 x 25	"	20	10
"	51 x 31	"	80	250
"	64 x 51	"	70	200
Socket black screwed 125 lb pressure malleable 4" 152"		"	40	240
"	125	"	40	200
"	192	"	40	100
"	64	"	200	200
"	51	"	200	170
"	38	"	150	70
"	32	"	150	70
"	25	"	200	50
"	17	"	100	20
"	13	"	120	120
"	10	"	80	70
Cross pipe, malleable, 150 lb pressure, black 4" 51"		"	150	200
"	38	"	70	70
Elbow, malleable, 150 lb pressure, 45 degree standard, 125"		"	20	120
"	17	"	20	20
"	13	"	20	20
"	10	"	20	20
"	51	"	100	100

Ship Co.,  
 a special detail boat of the Kansas  
 Steam Ship Co,  
 and the other repairing ships of U.  
 S. Army and etc.

alotted for  
 2 Lyngstroms turbine of the Michigan  
 the Mining Ind.  
 2 maintenance working equipments,  
 2 200' salvage boat,  
 2 200' detail boat of the Texas  
 Steam Ship Co.,  
 2 200' detail boat of the Post of Texas  
 and the other repairing ships of U. S.

DECLASSIFIED E.O. 12958 SECTION 1.4 (D) (2) (1) (2) 775013



	21 x 31		40	240	
	64 x 51	"	40	200	
Socket black screws 125 lb pressure malleable	9 152	"	40	240	
"	127	"	40	240	
"	192	"	40	100	
"	64	"	200	200	
"	51	"	200	170	
"	38	"	150	70	
"	32	"	150	70	
"	25	"	200	50	
"	19	"	100	20	
"	13	"	1200	120	
"	10	"	600	70	
Cross pipe, malleable, 150 lb pressure, black	9 51	"	150	200	
"	38	"	70		
Elbow, malleable, 150 lb pressure 45 degree standard	9 152	"	20	190	
"	51	"	20	60	
"	38	"	70	140	
"	64	"	110	100	
"	51	"	107	107	
Elbow, malleable, 150 lb pressure 45 degree standard		"			
"		"			
Nipple hexagonal, black		"			
Nipple (solid type - extra strong), black		"			
Plug, 150 lb pressure screw, square head, black	9 254	"			
Teel, malleable, 150 lb pressure, screw, black	9 100	"			

allotted for  
 1 Ljungstrom turbine of the Mitsui  
 the Mining Ind.  
 4 miscellaneous making equipments,  
 2600 salvage boat,  
 2 300 S Diesel boat of the Tokai  
 Steam Ship Co.,  
 2 5000 ferry boat of the Dept of Traff  
 2 2000 S Diesel boat of the Kansai Steam  
 Ship Co.,  
 and the other requiring ship of it

RECLASSIFIED E.O. 12958 PARTION 1-4-00/5001-00. 775013



Steel pipe	m.m. out side dia.	m.m. th.	m.m. L.	each	kg	new	needed
	48.6	3.5	5000	12	234.0		
	"	"	5500	10	209.0		
	75.0	4.5	5000	31	1,215.2		
	190.7	5.5	4000	10	100.6		
	"	"	5000	3	376.8		
	34	3.2	4000	5	48.5		
	50	2.6	5500	11	183.7		
	50	6.0	5500	20	718.0		
	51	3.2	6000	14	313.6		
	50	2.6	4000	1	12.2		
	42.7	3.5	5000	27	1,470.3		needed
	48.6	3.5	4000	12	518.2		
	"	"	4500	12	328.9		
	"	"	5000	11	600.1		
	"	"	5500	10	478		
	50	2.6	5000	10	312.0		
	50	3.5	4000	14	1,312		
	37	4.5	4000				
	50.5	3.8	4000				
	60.5	3.8	4500				
	"	"	5000				
	"	"	5500				
	70	3.5	5000				
	70	4.0	5000				
	"	"	5500				
	"	"	6000				
	76.5	4.2	5000				
	"	"	5400	716	3,909.2		

DECLASSIFIED E.O. 12958 SECTION 3-4(d) (2) DATE 10/1/00 775013







60.5 x 6.0 x 5000	2		
70.0 x 4.5 x 6000	34	2354	
75 x 4.0 x 3000	3020	10400	13
" " x 3500	2	1200	
60.5 x 4.5 x 5500	33	2250	
75 x 4.0 x 5000	30	2100	
" " x 4500	30	2100	
" " x 4000	30	2100	
" " x 3500	30	2100	
" " x 3000	30	2100	
75 x 4.5 x 5500	36	2520	
" " x 5000	36	2520	
" " x 5500	36	2520	
" " x 7100	36	2520	
76.3 x 4.0 x 5000	15	1050	
76.3 x 4.2 x 3500	190	7080	1
" " x 4500	58	4550	
" " x 5000	95	10755	2
" " x 5500	378	13987.5	
76.3 x 4.5 x 5000	6	2466	
76.3 x 4.2 x 4000	76	2851	
83.0 x 4.0 x 5000	3	1200	
89.0 x 6.5 x 4000	1	530	1
" " x 5000	2	1320	
" " x 7000	1	227	
89.1 x 4.2 x 4000	93	32736	
" " x 4500	151	59790	1
" " x 5000	186	81840	1
" " x 5500	10	4840	
114.3 x 4.5 x 4000	129	62950	1

PROJECTED - I.O. 12065 SECTION 1-4-19/5001-13

775013







1652 x 5.0 x 5000	2	187		
1652 x 7.0 x 4000	11	1203		Needed
1652 x 7.0 x 4200	8	919		
1652 x 7.0 x 4500	10	1231		
1652 x 7.0 x 5000	12	136		
1652 x 9.0 x 4000	2	277		
1927 x 8.0 x 4000	1	144		
1907 x 8.0 x 5500	2	397		
2163 x 6.0 x 4000	253	39417	6	Needed
272 x 2.8 x 4000	8	67		
426 x 35 x 4000	3	46		Needed
426 x 35 x 4500	4	70		
426 x 35 x 5000	18	292		
59 x 35 x 4000	2	32		
59 x 40 x 3260 ~ 4050	100	1653		
59 x 35 x 1000	40	280		
51 x 22 x 4000	15	75		
51 x 35 x 4000	3	49		Needed
51 x 35 x 5000	3	61		
51 x 45 x 3500	81	1539	2	
51 x 55 x 5000	513	15800		
51 x 65 x 5500	259	8806	1	
75 x 45 x 3360	40	1052		
763 x 40 x 5000	29	1035		
1107 x 70 x 4500	7	861		Needed



	75	x 45	x 3360	"	40	1,052		
	763	x 40	x 5000	"	29	1,035		
	1652	x 30	x 6500	"	7	861		Needed
	871	x 50	x 1000	"	5	207	1	
	871	x 50	x 5000	"	4	207		
	1652	x 20	x 4000	"	18	1,969		Needed
	1652	x 20	x 1000	"	12	1,641		
	1652	x 20	x 5500	"	2	300		
	216	x 20	x 5000	"	6	932		
	216	x 15	x 2000	"	4	265		
Smoke tube	70	x 40	x 2900	"	1215	21,262		Needed
	70	x 40	x 1000-4500	"	10	293	3	
	70	x 40	x 5500	"	29	1,041		Needed
	70	x 45	x 4000	"	14	409		
	75	x 20	x 5500	"	285	17,336	2	Needed
				"	22	1,945		
	80	x 40	x 2900	"	1078	19,215	5	Needed
	70	x 40	x 5500	"	586	19,586		
	70	x 20	x 5500	"	35	2359		
	75	x 45	x 5000	"	40	1,592	1	
Water tube	50	x 40	x 1000	"	119	2169		
	50	x 40	x 7,000	"	1035	32,913	4	
	50	x 40	x 8000	"	207	7,534	1	
	50	x 45	x 6000	"	171	5,181		
	50	x 45	x 2000	"	418	16,929	3	
	50	x 45	x 9000	"	20	910		
	50	x 50	x 11000	"	23	1,405		
	51	x 45	x 9,900	"	24	938		
	51	x 45	x 8000	"	50	2,065	1	
	51	x 45	x 9,500	"	921	3,192		
	51	x 45	x 7,000	"	172	8,277	1	
	51	x 45	x 7,140	"	230	1,025		Needed

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	51	x 45	x 8.520	"	721	3172		
	51	x 45	x 7.000	"	170	8277	1	
	51	x 45	x 7.140	"	230	1085		Needed
	51	x 45	x 7.950	"	11	585		
	51	x 45	x 7.000	"	12	654	1	
	51	x 55	x 6.970	"	21	760		
	51	x 55	x 7.200	"	16	967		
	80	x 90	x 2.950	"	30	1144		
	89.1	x 42	x 4.500	"	140	5540		
	59	x 45	x 9.520	"	133	6397	2	
	51	x 55	x 7.000	"	61	2910		
Weld pipe	1 1/2	x 16	x 5.000	"	52	373		
gas pipe	1/4	x 5.000	"	52	1161		4	Needed
	1/4	x 5.000	"	2	6			
	1/4	x 5.000	"	84	3500			
	1/2	x 5.000	"	406	26230			
	3/4	x 5.000	"	1871	15976			
	1	x 5.000	"	2916	35475		4	
	1 1/4	x 5.000	"	10	72		2	
	1 1/2	x 5.000	"	2300	45750			
	2	x 5.000	"	8	200		2	
	2 1/2	x 5.000	"	2896	68300			Needed
	3	x 5.000	"	110	1100			
	3 1/2	x 5.000	"	30	1715			
	4	x 5.000	"	56	5200			
	5	x 5.000	"	57	4869			
	6	x 5.000	"	203	12935			
	7	x 5.000	"	7	1350			
Electric weld pipe	10	x 20	x 5.000	"	8	210		
	15	x 16	x 5.000	"	20	1000		
	20	x 11	x 5.000	"	11	80		
	22	x 18	x 5.000	"	41	72		

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1/2	x 5,000	"	4,036	26,236	1	"	"
1/2	x 5,000	"	1,871	15,716	2	"	"
1	x 5,000	"	2,916	35,575	4	"	"
1 1/2	x 5,000	"	10	162	2	"	"
1 1/2	x 5,000	"	2360	16,150	2	"	"
1 1/2	x 5,000	"	9	200	2	"	"
2	x 5,000	"	2,896	66,360	2	"	Needed
2	x 5,000	"	1,500	50,220	5	"	"
2 1/2	x 5,000	"	28	1,915	1	"	"
4	x 5,000	"	568	32,068	1	"	"
4 1/2	x 5,000	"	57	4,069	1	"	"
5	x 5,000	"	263	17,235	1	"	"
5	x 5,000	"	2	2,000	1	"	"
<i>Subtotal</i>							
10	x 20 x 5,000	"	5	50	1	"	"
15	x 16 x 5,000	"	596	10,900	1	"	"
24	x 18 x 5,000	"	11	26	1	"	"
22	x 18 x 2,000	"	41	79	1	"	"
25	x 20 x 4,000	"	20	90	1	"	"
30	x 10 x 4,000	"	15	40	1	"	"
42 1/2	x 27 x 5,000	"	1	174	1	"	"
45	x 29 x 4,500	"	9	122	1	"	"
14 1/2	x 29 x 4,990	"	5	26	1	"	"
2	x 70 x 3,000	"	160	50	1	"	"
2	x 70 x 3,250	"	176	176	1	"	"
2	x 10 x 3,300	"	593	325	1	"	"
2	x 10 x 3,000	"	260	105	1	"	"
2	x 10 x 2,000	"	300	179	1	"	"
2	x 62 x 3,100	"	2	6	1	"	Needed
2 1/2	x 12 x 3,900	"	289	213	1	"	"



Electric weld pipe	Size	Quantity	Unit	Price	Total	Status	Notes
	8" x 12" x 3,500	ea	47	35.7		New	needed
	8" x 12" x 3,870	ea	45	35.1		New	needed
	8" x 12" x 4,210	ea	220	184.8		New	needed
	10" x 16" x 3,000	ea	10	9.9		New	needed
	10" x 18" x 3,500	ea	31	39.4		New	
	12" x 16" x 4,100	ea	158	268.6	2	New	
	12" x 16" x 4,500	ea	1,029	1,852.2		New	
	12" x 18" x 4,500	ea	443	930.3		New	needed
	15" x 26" x 3,000	ea	7	8.2		New	
	50" x 10" x 4,200	ea	21	109.2		New	
	50" x 16" x 4,500	ea	8	24.3		New	
	50" x 16" x 4,500	ea	9	53.1		New	needed
	50" x 20" x 4,700	ea	3,500	15,650.2		New	
	50" x 20" x 5,000	ea	7	28.0		New	
	51" x 20" x 4,000	ea	10	35.5		New	
	56" x 20" x 4,000	ea	11	31.5	7	New	
	60" x 28" x 4,000	ea	7	28.5		New	
	60" x 28" x 4,000	ea	16	23.2		New	needed
	60" x 28" x 4,000	ea	2,720	21,660.0		New	needed
	60" x 28" x 4,000	ea	204	5,070.4	1	New	needed
	60" x 28" x 2,500	ea	175	4,209.5		New	needed
	25" x 20" x 4,000	ea	1,127	16,223.8	2	New	needed
	25" x 20" x 4,000	ea	8	192.0		New	
	38" x 23" x 3,500	ea	61	219.6		New	needed
	15" x 23" x 5,500	ea	57	228.0		New	
	20" x 23" x 5,500	ea	21	117.0		New	
	25" x 27" x 5,500	ea	197	1,615.4		New	
	20" x 27" x 5,000	ea	20	100.0	1	New	
	20" x 27" x 5,000	ea	37	192.7		New	
	20" x 27" x 5,000	ea	13	101.4		New	
	30" x 27" x 5,500	ea	347	3,294.3		New	
			07	500.4		New	

Steel pipe



10 x 2.5 x 4,500	ea	21	117.0	new
15 x 3.5 x 5,000	ea	27	1615.4	new
20 x 4.5 x 5,500	ea	30	1680.0	new
25 x 5.5 x 6,000	ea	33	1782.0	new
30 x 6.5 x 6,500	ea	36	1890.0	new
35 x 7.5 x 7,000	ea	39	2001.0	new
40 x 8.5 x 7,500	ea	42	2115.0	new
45 x 9.5 x 8,000	ea	45	2232.0	new
50 x 10.5 x 8,500	ea	48	2352.0	new
55 x 11.5 x 9,000	ea	51	2475.0	new
60 x 12.5 x 9,500	ea	54	2601.0	new
65 x 13.5 x 10,000	ea	57	2730.0	new
70 x 14.5 x 10,500	ea	60	2862.0	new
75 x 15.5 x 11,000	ea	63	2997.0	new
80 x 16.5 x 11,500	ea	66	3135.0	new
85 x 17.5 x 12,000	ea	69	3276.0	new
90 x 18.5 x 12,500	ea	72	3420.0	new
95 x 19.5 x 13,000	ea	75	3567.0	new
100 x 20.5 x 13,500	ea	78	3717.0	new
105 x 21.5 x 14,000	ea	81	3870.0	new
110 x 22.5 x 14,500	ea	84	4026.0	new
115 x 23.5 x 15,000	ea	87	4185.0	new
120 x 24.5 x 15,500	ea	90	4347.0	new
125 x 25.5 x 16,000	ea	93	4512.0	new
130 x 26.5 x 16,500	ea	96	4680.0	new
135 x 27.5 x 17,000	ea	99	4851.0	new
140 x 28.5 x 17,500	ea	102	5025.0	new
145 x 29.5 x 18,000	ea	105	5202.0	new
150 x 30.5 x 18,500	ea	108	5382.0	new
155 x 31.5 x 19,000	ea	111	5565.0	new
160 x 32.5 x 19,500	ea	114	5751.0	new
165 x 33.5 x 20,000	ea	117	5940.0	new
170 x 34.5 x 20,500	ea	120	6132.0	new
175 x 35.5 x 21,000	ea	123	6327.0	new
180 x 36.5 x 21,500	ea	126	6525.0	new
185 x 37.5 x 22,000	ea	129	6726.0	new
190 x 38.5 x 22,500	ea	132	6930.0	new
195 x 39.5 x 23,000	ea	135	7137.0	new
200 x 40.5 x 23,500	ea	138	7347.0	new
205 x 41.5 x 24,000	ea	141	7560.0	new
210 x 42.5 x 24,500	ea	144	7776.0	new
215 x 43.5 x 25,000	ea	147	7995.0	new
220 x 44.5 x 25,500	ea	150	8217.0	new
225 x 45.5 x 26,000	ea	153	8442.0	new
230 x 46.5 x 26,500	ea	156	8670.0	new
235 x 47.5 x 27,000	ea	159	8901.0	new
240 x 48.5 x 27,500	ea	162	9135.0	new
245 x 49.5 x 28,000	ea	165	9372.0	new
250 x 50.5 x 28,500	ea	168	9612.0	new
255 x 51.5 x 29,000	ea	171	9855.0	new
260 x 52.5 x 29,500	ea	174	10101.0	new
265 x 53.5 x 30,000	ea	177	10350.0	new
270 x 54.5 x 30,500	ea	180	10602.0	new
275 x 55.5 x 31,000	ea	183	10857.0	new
280 x 56.5 x 31,500	ea	186	11115.0	new
285 x 57.5 x 32,000	ea	189	11376.0	new
290 x 58.5 x 32,500	ea	192	11640.0	new
295 x 59.5 x 33,000	ea	195	11907.0	new
300 x 60.5 x 33,500	ea	198	12177.0	new
305 x 61.5 x 34,000	ea	201	12450.0	new
310 x 62.5 x 34,500	ea	204	12726.0	new
315 x 63.5 x 35,000	ea	207	13005.0	new
320 x 64.5 x 35,500	ea	210	13287.0	new
325 x 65.5 x 36,000	ea	213	13572.0	new
330 x 66.5 x 36,500	ea	216	13860.0	new
335 x 67.5 x 37,000	ea	219	14151.0	new
340 x 68.5 x 37,500	ea	222	14445.0	new
345 x 69.5 x 38,000	ea	225	14742.0	new
350 x 70.5 x 38,500	ea	228	15042.0	new
355 x 71.5 x 39,000	ea	231	15345.0	new
360 x 72.5 x 39,500	ea	234	15651.0	new
365 x 73.5 x 40,000	ea	237	15960.0	new
370 x 74.5 x 40,500	ea	240	16272.0	new
375 x 75.5 x 41,000	ea	243	16587.0	new
380 x 76.5 x 41,500	ea	246	16905.0	new
385 x 77.5 x 42,000	ea	249	17226.0	new
390 x 78.5 x 42,500	ea	252	17550.0	new
395 x 79.5 x 43,000	ea	255	17877.0	new
400 x 80.5 x 43,500	ea	258	18207.0	new
405 x 81.5 x 44,000	ea	261	18540.0	new
410 x 82.5 x 44,500	ea	264	18876.0	new
415 x 83.5 x 45,000	ea	267	19215.0	new
420 x 84.5 x 45,500	ea	270	19557.0	new
425 x 85.5 x 46,000	ea	273	19902.0	new
430 x 86.5 x 46,500	ea	276	20250.0	new
435 x 87.5 x 47,000	ea	279	20601.0	new
440 x 88.5 x 47,500	ea	282	20955.0	new
445 x 89.5 x 48,000	ea	285	21312.0	new
450 x 90.5 x 48,500	ea	288	21672.0	new
455 x 91.5 x 49,000	ea	291	22035.0	new
460 x 92.5 x 49,500	ea	294	22401.0	new
465 x 93.5 x 50,000	ea	297	22770.0	new
470 x 94.5 x 50,500	ea	300	23142.0	new
475 x 95.5 x 51,000	ea	303	23517.0	new
480 x 96.5 x 51,500	ea	306	23895.0	new
485 x 97.5 x 52,000	ea	309	24276.0	new
490 x 98.5 x 52,500	ea	312	24660.0	new
495 x 99.5 x 53,000	ea	315	25047.0	new
500 x 100.5 x 53,500	ea	318	25437.0	new
505 x 101.5 x 54,000	ea	321	25830.0	new
510 x 102.5 x 54,500	ea	324	26226.0	new
515 x 103.5 x 55,000	ea	327	26625.0	new
520 x 104.5 x 55,500	ea	330	27027.0	new
525 x 105.5 x 56,000	ea	333	27432.0	new
530 x 106.5 x 56,500	ea	336	27840.0	new
535 x 107.5 x 57,000	ea	339	28251.0	new
540 x 108.5 x 57,500	ea	342	28665.0	new
545 x 109.5 x 58,000	ea	345	29082.0	new
550 x 110.5 x 58,500	ea	348	29502.0	new
555 x 111.5 x 59,000	ea	351	29925.0	new
560 x 112.5 x 59,500	ea	354	30351.0	new
565 x 113.5 x 60,000	ea	357	30780.0	new
570 x 114.5 x 60,500	ea	360	31212.0	new
575 x 115.5 x 61,000	ea	363	31647.0	new
580 x 116.5 x 61,500	ea	366	32085.0	new
585 x 117.5 x 62,000	ea	369	32526.0	new
590 x 118.5 x 62,500	ea	372	32970.0	new
595 x 119.5 x 63,000	ea	375	33417.0	new
600 x 120.5 x 63,500	ea	378	33867.0	new
605 x 121.5 x 64,000	ea	381	34320.0	new
610 x 122.5 x 64,500	ea	384	34776.0	new
615 x 123.5 x 65,000	ea	387	35235.0	new
620 x 124.5 x 65,500	ea	390	35697.0	new
625 x 125.5 x 66,000	ea	393	36162.0	new
630 x 126.5 x 66,500	ea	396	36630.0	new
635 x 127.5 x 67,000	ea	399	37101.0	new
640 x 128.5 x 67,500	ea	402	37575.0	new
645 x 129.5 x 68,000	ea	405	38052.0	new
650 x 130.5 x 68,500	ea	408	38532.0	new
655 x 131.5 x 69,000	ea	411	39015.0	new
660 x 132.5 x 69,500	ea	414	39501.0	new
665 x 133.5 x 70,000	ea	417	39990.0	new
670 x 134.5 x 70,500	ea	420	40482.0	new
675 x 135.5 x 71,000	ea	423	40977.0	new
680 x 136.5 x 71,500	ea	426	41475.0	new
685 x 137.5 x 72,000	ea	429	41976.0	new
690 x 138.5 x 72,500	ea	432	42480.0	new
695 x 139.5 x 73,000	ea	435	42987.0	new
700 x 140.5 x 73,500	ea	438	43497.0	new
705 x 141.5 x 74,000	ea	441	44010.0	new
710 x 142.5 x 74,500	ea	444	44526.0	new
715 x 143.5 x 75,000	ea	447	45045.0	new
720 x 144.5 x 75,500	ea	450	45567.0	new
725 x 145.5 x 76,000	ea	453	46092.0	new
730 x 146.5 x 76,500	ea	456	46620.0	new
735 x 147.5 x 77,000	ea	459	47151.0	new
740 x 148.5 x 77,500	ea	462	47685.0	new
745 x 149.5 x 78,000	ea	465	48222.0	new
750 x 150.5 x 78,500	ea	468	48762.0	new
755 x 151.5 x 79,000	ea	471	49305.0	new
760 x 152.5 x 79,500	ea	474	49851.0	new
765 x 153.5 x 80,000	ea	477	50400.0	new
770 x 154.5 x 80,500	ea	480	50952.0	new
775 x 155.5 x 81,000	ea	483	51507.0	new
780 x 156.5 x 81,500	ea	486	52065.0	new
785 x 157.5 x 82,000	ea	489	52626.0	new
790 x 158.5 x 82,500	ea	492	53190.0	new
795 x 159.5 x 83,000	ea	495	53757.0	new
800 x 160.5 x 83,500	ea	498	54327.0	new
805 x 161.5 x 84,000	ea	501	54900.0	new
810 x 162.5 x 84,500	ea	504	55476.0	new
815 x 163.5 x 85,000	ea	507	56055.0	new
820 x 164.5 x 85,500	ea	510	56637.0	new
825 x 165.5 x 86,000	ea	513	57222.0	new
830 x 166.5 x 86,500	ea	516	57810.0	new
835 x 167.5 x 87,000	ea	519	58401.0	new
840 x 168.5 x 87,500	ea	522	59000.0	new
845 x 169.5 x 88,000	ea	525	59605.0	new
850 x 170.5 x 88,500	ea	528	60216.0	new
855 x 171.5 x 89,000	ea	531	60830.0	new
860 x 172.5 x 89,500	ea	534	61447.0	new
865 x 173.5 x 90,000	ea	537	62067.0	new
870 x 174.5 x 90,500	ea	540	62690.0	new
875 x 175.5 x 91,000	ea	543	63315.0	new
880 x 176.5 x 91,500	ea	546	63942.0	new
885 x 177.5 x 92,000	ea	549	64572.0	new
890 x 178.5 x 92,500	ea	552	65205.0	new
895 x 179.5 x 93,000	ea	555	65840.0	new
900 x 180.5 x 93,500	ea	558	66477.0	new
905 x 181.5 x 94,000	ea	561	67117.0	new
910 x 182.5 x 94,500	ea	564	67760.0	new
915 x 183.5 x 95,000	ea	567	68405.0	new
920 x 184.5 x 95,500	ea	570	69052.0	new
925 x 185.5 x 96,000	ea	573	69702.0	new
930 x 186.5 x 96,500	ea	576	70354.0	new
935 x 187.5 x 97,000	ea	579	71008.0	new
940 x 188.5 x 97,500	ea	582	71664.0	new
945 x 189.5 x 98,000	ea	585	72322.0	new
950 x 190.5 x 98,500	ea	588	72982.0	new
955 x 191.5 x 99,000	ea	591	73644.0	new
960 x 192.5 x 99,500	ea	594	74308.0	new
965 x 193.5 x 100,000	ea	597	74974.0	new
970 x 194.5 x 100,500	ea	600	75642.0	new
975 x 195.5 x 101,000	ea	603	76312.0	new
980 x 196.5 x 101,500	ea	606	76984.0	new
985 x 197.5 x 102,000	ea	609	77658.0	new
990 x 198.5 x 102,500	ea	612	78334.0	new
995 x 199.5 x 103,000	ea	615	79012.0	new
1000 x 200.5 x 103,500	ea	618	79692.0	new
1005 x 201.5 x 104,000	ea	621	80374.0	new
1010 x 202.5 x 104,500	ea	624	81058.0	new
1015 x 203.5 x 105,000	ea	627	81744.0	new
1020 x 204.5 x 105,500	ea	630	82432.0	new
1025 x 205.5 x 106,000	ea	633	83122.0	new
1030 x 206.5 x 106,500	ea	636	83814.0	new
1035 x 207.5 x 107,000	ea	639	84508.0	new
1040 x 208.5 x 107,500	ea	642	85204.0	new
1045 x 209.5 x 108,000	ea	645	85902.0	new
1050 x 210.5 x 108,500	ea	648	86602.0</	



25 x 4.5 x 5,000	CA	10	114.0	new	
28 x 2.0 x 5,000	CA	164	180.4	new	needed
30 x 5.0 x 5,000	CA	50	770.0	new	
35 x 2.5 x 1,500	CA	20	72.0	new	
35 x 4.5 x 3,500	CA	87	507.3	new	
35 x 5.0 x 5,000	CA	157	2,164.5	new	
75 x 6.5 x 5,500	CA	65	3,926.0	new	
15 x 2.3 x 5,000	CA	2	9.8	new	
20 x 4.0 x 5,000	CA	16	190.4	new	
25 x 2.0 x 4,000	CA	26	137.8	new	
25 x 2.0 x 4,500	CA	26	155.0	new	
25 x 2.0 x 5,500	CA	23	159.1	new	
25 x 2.0 x 5,500	CA	39	284.7	new	needed
30 x 2.5 x 1,500	CA	27	299.7	new	
30 x 2.5 x 1,800	CA	20	75.0	new	
30 x 2.6 x 5,000	CA	16	168.0	new	
50 x 2.1 x 3,100	CA	48	5,411.6	new	
50 x 2.1 x 3,400	CA	11	1,377.2	new	
70 x 3.5 x 6,000	CA	7	95.9	new	
80 x 7.5 x 2,000	CA	78	351.0	new	
25 x 2.4 x 2,750	CA	12	44.7	new	
10 x 2.0 x 5,000	CA	14	27.6	new	
40 x 5.0 x 5,000	CA	22	475.2	new	
45 x 2.8 x 4,000	CA	8	96.0	new	
80 x 16 x 1,150	CA	164	4,076.4	new	
40 x 2.2 x 5,000	CA	26	66.8	new	
30 x 2.7 x 5,000	CA	27	110.7	new	
30 x 3.0 x 4,500	CA	27	165.3	new	
30 x 3.2 x 3,000	CA	13	170.9	new	
30 x 3.2 x 5,500	CA	17	158.4	new	
35 x 2.0 x 5,000	CA	35	322.0	new	
35 x 2.0 x 5,500	CA	22	222.2	new	

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60	x	7.5	x	2,000	ea	18	351.0	new
25	x	3.0	x	2,750	ea	12	750.0	new
10	x	2.0	x	5,000	ea	14	27.6	new
40	x	5.0	x	5,000	ea	22	475.2	new
45	x	2.0	x	4,000	ea	8	96.0	new
30	x	1.6	x	1,150	ea	164	2096.4	new
40	x	2.2	x	5,000	ea	26	46.8	new
20	x	2.9	x	3,000	ea	25	175.5	new
30	x	3.2	x	4,500	ea	18	165.2	new
30	x	3.2	x	3,000	ea	13	170.3	new
20	x	2.2	x	5,500	ea	17	158.4	new
25	x	2.5	x	3,000	ea	20	322.0	new
25	x	2.8	x	3,500	ea	20	322.2	new
40	x	2.2	x	5,000	ea	6	102.0	new
50	x	1.8	x	3,000	ea	35	28.0	new
80	x	1.8	x	3,500	ea	131	731.0	new
10	x	1.8	x	2,500	ea	72	50.4	new
10	x	1.8	x	3,000	ea	633	675.2	new
10	x	2.3	x	5,000	ea	116	253.2	new
10	x	2.7	x	2,500	ea	384	167.0	new
10	x	2.7	x	3,000	ea	433	649.5	new
10	x	2.9	x	3,500	ea	34	972.2	new
10	x	2.9	x	4,000	ea	31	62.0	new
10	x	2.9	x	3,500	ea	15	42.0	new
10	x	3.0	x	3,000	ea	41	65.6	new
10	x	3.5	x	2,500	ea	16	22.4	new
10	x	3.5	x	3,000	ea	208	353.6	new
12	x	2.7	x	5,000	ea	22	61.6	new
90	x	3.5	x	4,000	ea	22	673.0	new
100	x	5.5	x	3,000	ea	20	1,412.0	new

needed  
needed  
needed



115

Steel pipe	o.d.	W	L	Wt	Wt	Wt	Wt	Wt
"	10	18	3500	350	2200			
"	10	18	4000	400	681.5			
"	10	18	4500	450	681.5			needed
"	10	18	5000	500	115.6			
"	10	18	5500	550	115.6			
"	10	23	2000	300	520.0			needed
"	10	23	2500	1221	1678.1			needed
"	10	23	3000	1000	1678.1			needed
"	10	23	4000	1200	266.6			needed
"	10	23	4500	1300	115.6			needed
"	15	20	1000	100	200			
"	15	20	1500	150	200			
"	15	20	2000	200	200			
"	15	20	2500	250	200			
"	15	20	3000	300	200			
"	15	20	3500	350	200			
"	15	20	4000	400	200			
"	15	20	4500	450	200			
"	15	20	5000	500	200			
"	15	20	5500	550	200			
"	15	20	6000	600	200			
"	15	20	6500	650	200			
"	15	20	7000	700	200			
"	15	20	7500	750	200			
"	15	20	8000	800	200			
"	15	20	8500	850	200			
"	15	20	9000	900	200			
"	15	20	9500	950	200			
"	15	20	10000	1000	200			
"	15	20	10500	1050	200			
"	15	20	11000	1100	200			
"	15	20	11500	1150	200			
"	15	20	12000	1200	200			
"	15	20	12500	1250	200			
"	15	20	13000	1300	200			
"	15	20	13500	1350	200			
"	15	20	14000	1400	200			
"	15	20	14500	1450	200			
"	15	20	15000	1500	200			
"	15	20	15500	1550	200			
"	15	20	16000	1600	200			
"	15	20	16500	1650	200			
"	15	20	17000	1700	200			
"	15	20	17500	1750	200			
"	15	20	18000	1800	200			
"	15	20	18500	1850	200			
"	15	20	19000	1900	200			
"	15	20	19500	1950	200			
"	15	20	20000	2000	200			
"	15	20	20500	2050	200			
"	15	20	21000	2100	200			
"	15	20	21500	2150	200			
"	15	20	22000	2200	200			
"	15	20	22500	2250	200			
"	15	20	23000	2300	200			
"	15	20	23500	2350	200			
"	15	20	24000	2400	200			
"	15	20	24500	2450	200			
"	15	20	25000	2500	200			
"	15	20	25500	2550	200			
"	15	20	26000	2600	200			
"	15	20	26500	2650	200			
"	15	20	27000	2700	200			
"	15	20	27500	2750	200			
"	15	20	28000	2800	200			
"	15	20	28500	2850	200			
"	15	20	29000	2900	200			
"	15	20	29500	2950	200			
"	15	20	30000	3000	200			
"	15	20	30500	3050	200			
"	15	20	31000	3100	200			
"	15	20	31500	3150	200			
"	15	20	32000	3200	200			
"	15	20	32500	3250	200			
"	15	20	33000	3300	200			
"	15	20	33500	3350	200			
"	15	20	34000	3400	200			
"	15	20	34500	3450	200			
"	15	20	35000	3500	200			
"	15	20	35500	3550	200			
"	15	20	36000	3600	200			
"	15	20	36500	3650	200			
"	15	20	37000	3700	200			
"	15	20	37500	3750	200			
"	15	20	38000	3800	200			
"	15	20	38500	3850	200			
"	15	20	39000	3900	200			
"	15	20	39500	3950	200			
"	15	20	40000	4000	200			
"	15	20	40500	4050	200			
"	15	20	41000	4100	200			
"	15	20	41500	4150	200			
"	15	20	42000	4200	200			
"	15	20	42500	4250	200			
"	15	20	43000	4300	200			
"	15	20	43500	4350	200			
"	15	20	44000	4400	200			
"	15	20	44500	4450	200			
"	15	20	45000	4500	200			
"	15	20	45500	4550	200			
"	15	20	46000	4600	200			
"	15	20	46500	4650	200			
"	15	20	47000	4700	200			
"	15	20	47500	4750	200			
"	15	20	48000	4800	200			
"	15	20	48500	4850	200			
"	15	20	49000	4900	200			
"	15	20	49500	4950	200			
"	15	20	50000	5000	200			
"	15	20	50500	5050	200			
"	15	20	51000	5100	200			
"	15	20	51500	5150	200			
"	15	20	52000	5200	200			
"	15	20	52500	5250	200			
"	15	20	53000	5300	200			
"	15	20	53500	5350	200			
"	15	20	54000	5400	200			
"	15	20	54500	5450	200			
"	15	20	55000	5500	200			
"	15	20	55500	5550	200			
"	15	20	56000	5600	200			
"	15	20	56500	5650	200			
"	15	20	57000	5700	200			
"	15	20	57500	5750	200			
"	15	20	58000	5800	200			
"	15	20	58500	5850	200			
"	15	20	59000	5900	200			
"	15	20	59500	5950	200			
"	15	20	60000	6000	200			
"	15	20	60500	6050	200			
"	15	20	61000	6100	200			
"	15	20	61500	6150	200			
"	15	20	62000	6200	200			
"	15	20	62500	6250	200			
"	15	20	63000	6300	200			
"	15	20	63500	6350	200			
"	15	20	64000	6400	200			
"	15	20	64500	6450	200			
"	15	20	65000	6500	200			
"	15	20	65500	6550	200			
"	15	20	66000	6600	200			
"	15	20	66500	6650	200			
"	15	20	67000	6700	200			
"	15	20	67500	6750	200			
"	15	20	68000	6800	200			
"	15	20	68500	6850	200			
"	15	20	69000	6900	200			
"	15	20	69500	6950	200			
"	15	20	70000	7000	200			
"	15	20	70500	7050	200			
"	15	20	71000	7100	200			
"	15	20	71500	7150	200			
"	15	20	72000	7200	200			
"	15	20	72500	7250	200			
"	15	20	73000	7300	200			
"	15	20	73500	7350	200			
"	15	20	74000	7400	200			
"	15	20	74500	7450	200			
"	15	20	75000	7500	200			
"	15	20	75500	7550	200			
"	15	20	76000	7600	200			
"	15	20	76500	7650	200			
"	15	20	77000	7700	200			
"	15	20	77500	7750	200			
"	15	20	78000	7800	200			
"	15	20	78500					







20	20	400	48	2665
20	20	400	50	2700
20	20	400	50	2700
20	21	400	51	2735
20	21	400	52	2770
20	22	400	53	2805
20	22	400	54	2840
20	23	450	55	2875
20	23	450	56	2910
20	24	400	57	2945
20	24	450	58	2980
20	24	500	59	3015
20	25	600	60	3050
20	26	600	61	3085
20.6	22	500	62	3120
20	24	300	63	3155
20	24	350	64	3190
20	27	400	65	3225
20	29	450	66	3260
20	29	450	67	3295
20	35	4500	68	3330
20	35	500	69	3365
20	35	550	70	3400
20	35	600	71	3435
31.75	20.75	500	72	3470
25	23	500	73	3505
30	32	550	74	3540
35	35	450	75	3575
35	35	550	76	3610
35	40	550	77	3645
35	45	500	78	3680
35	70	300	79	3715
35	70	400	80	3750
35	70	450	81	3785

needed

needed

DECLASSIFIED E.O. 12065 SECTION 3-402/5801 D. 775013



31.75 x 20.75 x 5000	"	12	24.6	"	
35 x 23 x 5000	"	13	120.7	"	
30 x 32 x 5500	"	30	414.0	"	
35 x 35 x 4500	"	35	432.0	"	needed
35 x 25 x 5500	"	30	402.0	"	
35 x 40 x 5570	"	12	201.6	"	
35 x 45 x 5000	"	15	245.0	"	
35 x 70 x 3000	"	17	336.9	"	
35 x 70 x 4000	"	35	1107.2	"	
35 x 70 x 4500	"	53	1866.63	"	
38 x 2.6 x 5500	"	25	312.5	"	needed
38.1 x 27.1 x 5500	"	27	385.29	"	
40 x 2.6 x 4000	"	17	172.8	"	
40 x 2.6 x 4500	"	17	1477.6	"	needed
40 x 2.6 x 5000	"	31	372.31	"	
45 x 2.6 x 5500	"	25	375.0	"	
45 x 32 x 5500	"	11	210.2	"	
45 x 35 x 3000	"	96	992.5	"	
475 x 20 x 4000	"	26	234.0	"	
475 x 20 x 4500	"	26	232.5	"	
55 x 32 x 4000	"	15	246.0	"	
55 x 35 x 4000	"	103	1532.0	"	needed
60 x 32 x 5500	"	30	741.0	"	
60 x 35 x 5000	"	42	1057.2	"	
60 x 40 x 5000	"	20	354.0	"	
6350 x 30 x 4500	"	15	300.0	"	
65 x 29 x 5000	"	23	510.0	"	
65 x 32 x 5000	"	11	268.4	"	
70 x 35 x 5000	"	6	36.0	"	
80 x 35 x 5000	"	12	377.2	"	
83 x 45 x 2200	"	43	1134.0	"	
90 x 35 x 4000	"	45	1345.3	"	

DECLASSIFIED E.O. 12065 SECTION 3-402/5000 10. 775013



775013

Steel pipe

OD in	Wt	Length	Each				
130	x 4.5	x 4500	11	6989	}	new	* needed
130	x 6.5	x 4000	4	3172		"	"
130	x 6.5	x 4500	5	7136	}	"	"
150	x 4.0	x 5000	11	7931		"	"
190	x 6.0	x 4500	14	17178	}	"	"
190	x 9.0	x 3000	14	19712		"	"
190	x 9.0	x 4000	51	92361	}	"	"
60	x 9.0	x 5000	80	132750		"	"
205	x 8.0	x 4000 & 5500	23	40755	}	"	"
6.5	x 3.5	x 5000	12	336		"	"
178	x 1.5	x 3000	20	220			needed
137	x 1.5	x 5000	11	381			
173	x 2.3	x 5000	1	199			
268	x 1.5	x 4000	60	3000			
268	x 1.5	x 4000	25	1250			
275	x 3.5	x 5000	25	2524			needed
320	x 2.0	x 5000	20	1000			
323	x 2.5	x 5000	15	7500			
326	x 2.6	x 5000	15	7650			
332	x 3.5	x 5000	125	12500			
376	x 2.6	x 5000	77	3760			
382	x 3.0	x 5000	76	3820			
40	x 2.6	x 5000	153	2175			
40	x 2.9	x 5000	75	2175			
45	x 3.0	x 5000	121	2175			



37.6 x 2.6 x 5000	77	4229
38.2 x 3.0 x 5000	276	2056
40 x 2.6 x 5000	182	2056
40 x 2.9 x 5000	182	2056
46 x 3.2 x 5000	173	2056
55 x 4.0 x 5000	11	2056
60 x 2.6 x 5000	28	2056
60 x 3.2 x 1250	25	2056
60 x 3.2 x 5000	25	2056
60 x 4.5 x 5000	25	2056
70 x 2.6 x 5000	18	2056
70 x 3.5 x 5000	30	2056
80 x 2.6 x 5000	197	2056
90 x 3.2 x 5000	22	2056
100 x 2.6 x 5000	14	2056
120 x 2.6 x 5000	25	2056
200 x 4.5 x 4000	13	1927
220 x 4.5 x 5000		
220 x 5.0 x 5500	16	2197
240 x 5.0 x 5500	16	2197
20 x 2.3 x 3000	7	210
25 x 2.6 x 3995	57	3247
25 x 2.6 x 4495	4	286
30 x 3.2 x 2300	18	472
30 x 3.2 x 2500	41	2375
30 x 3.2 x 29000	67	3953
30 x 3.2 x 3300	846	5877.4
30 x 3.2 x 3500	550	4090.0
30 x 3.2 x 3800	624	4992.0
30 x 3.2 x 4000	814	6839.6
30 x 3.2 x 4500	765	7296.0
30 x 3.2 x 5000	893	9291.5
	001	0000

needed

needed

needed

needed

needed

needed

REGASSIFIED I.O. 12065 SECTION 3-402/8801 NO.

775013



30	x	32	x	3800	"	024	4992.0		
30	x	32	x	4000	"	318	6537.6		
30	x	32	x	4500	"	765	7296.0	3	
30	x	32	x	5000	"	893	9271.5		
30	x	32	x	5300	"	985	9723.5		
30	x	32	x	5500	"	1001	11611.6		needed
30	x	35	x	5900	"	20	1090.0		needed
30	x	35	x	6000	"	2	254	3	needed
45	x	29	x	4000	"	1	100		
60	x	40	x	6000	"	10	1000		needed
60	x	45	x	5500~5500	"	7000	2935.6		needed
60	x	45	x	3000	"	16	2960	5	
8255	x	50	x	4000	"	14	536.2		needed
90	x	40	x	3000~5000	"	611	20774.0		needed
90	x	45	x	3000 up	"	100	2970.0		
90	x	45	x	4000~4500	"	200	8080.0	5	
100	x	65	x	4500~5500	"	361	29812.5		needed
101.6	x	42	x	4000	"	2	161.6		needed
101.6	x	42	x	4500	"	7	317.8		needed
101.6	x	42	x	5000	"	28	1414.0		needed
101.6	x	42	x	5500	"	18	963.0		needed
101.6	x	42	x	3000~4000	"	28	1262.5	1	
101.6	x	50	x	4000~5500	"	12	715.2		
101.6	x	50	x	5000	"	20	1304		
101.6	x	55	x	7000	"	43	3925.7		
101.6	x	55	x	8000	"	28	2923.2		
101.6	x	55	x	9000	"	40	4696		
101.6	x	55	x	10000	"	54	7047.0	3	
101.6	x	55	x	11000	"	77	10497.4		
101.6	x	65	x	4000~5500	"	80	6104.0		needed
101.6	x	65	x	3000~4000	"	2	152.6		needed
101.6	x	65	x	5000	"	38	2899.4	3	
101.6	x	65	x	6000	"	77	8733.2		needed
101.6	x	75	x	7000	"	111	15171.5		needed

DECLASSIFIED E.O. 12958 SECTION 1-4.2/5000-10

775013



101.6 x 42 x 4500	7	317.8		needed
101.6 x 42 x 5000	28	1414.0		needed
101.6 x 42 x 5500	18	963.0		needed
101.6 x 42 x 3000-4000	28	1262.5		needed
101.6 x 50 x 4000-5500	12	715.2		
101.6 x 50 x 5000	20	1304		
101.6 x 55 x 7000	43	3725.7		
101.6 x 55 x 8000	28	2923.2		
101.6 x 55 x 9000	40	4696		
101.6 x 55 x 10000	54	7047.0	3	
101.6 x 55 x 11000	75	10497.4		
101.6 x 55 x 12000	80	6104.0		needed
101.6 x 55 x 13000	5	165.4		needed
101.6 x 65 x 5000	38	2899.4	3	needed
101.6 x 65 x 6000	97	8885.2		needed
101.6 x 65 x 7000	114	12175.2		needed
101.6 x 65 x 8000	130	95873.0	2	needed
101.6 x 65 x 11000	10	1679.0		needed
130 x 60 x 4500	18	1486.8		
130 x 65 x 4500	15	1338.0	2	needed
130 x 65 x 5500	1	154.1		needed
139.3 x 45 x 5000	82	6555.8		
165 x 60 x 3000-4000	40	6712.0		needed
190 x 60 x 3000 up	14	1335.6		
190 x 60 x 4000-5000	13	1595.1	1	
190 x 90 x 4000 up	30	5133.0		needed
190 x 90 x 5000 up	26	6753.8		needed
225 x 12.5 x 3000-4000	36	8036.0		
298.5 x 250 x 2440	30	12363.0	4	
298.5 x 250 x 2710	12	5492.4		
6.2 x 3.2 x 2000	27	140.4		

775013



Steel pipe

Size	Quantity	Unit	Price	Total	Notes
25" x 3.5" x 6,000	47	ea	526.4		
30 x 4.5 x 4,000	27	ea	305.1		
35 x 2.6 x 4,000	45	ea	373.5		
35 x 2.6 x 4,500	252	ea	2,543.6		
35 x 2.6 x 5,000	60	ea	624.0		
35 x 2.9 x 4,000	105	ea	866.0		
35 x 2.9 x 5,500	67	ea	850.9		
35 x 3.5 x 4,000	13	ea	141.7		needed
35 x 3.5 x 5,000	30	ea	303.0		
40 x 2.6 x 4,200	517	ea	5,221.7		
40 x 2.6 x 5,000	87	ea	1,068.0		
40 x 2.9 x 5,000	12	ea	135.2		needed
30 x 4.4 x 5,000	30	ea	1,125.0		
60 x 2.9 x 4,500	20	ea	368.0		
65 x 5.0 x 5,000	28	ea	1,036.0		
80 x 5.0 x 5,000	24	ea	1,111.2		
80 x 5.0 x 6,500	30	ea	1,527.0		
80 x 6.5 x 5,000	38	ea	2,349.0		
90 x 4.0 x 5,000	39	ea	1,657.5		needed
100 x 4.0 x 5,000	61	ea	3,173.1		
100 x 5.0 x 4,550	37	ea	2,171.7		
110 x 5.0 x 5,000	22	ea	1,425.6		needed
125 x 4.5 x 5,500	14	ea	1,030.4		
130 x 4.5 x 3,300	27	ea	1,242.0		needed
130 x 4.5 x 5,000	14	ea	945.8		
17 x 1.6 x 5,000	11	ea	110.0		



110 x 5.0 x 5,000	ca	22	1,475.6	"	needed
125 x 4.5 x 5,500	ca	14	1,030.4	"	"
130 x 4.5 x 3,300	ca	27	1,242.0	"	needed
130 x 4.5 x 5,000	ca	14	895.8	"	"
12.2 x 1.6 x 5,000	ca	11	46.2	"	"
30 x 3.5 x 6,000	ca	18	346.6	"	needed
101.6 x 4.2 x 4,000	ca	4	161.0	"	"
101.6 x 4.2 x 5,000	ca	14	707.2	"	"
101.6 x 5.0 x 3,655	ca	15	897.0	"	"
101.6 x 5.0 x 5,000	ca	34	2,026.4	"	"
165.2 x 7.0 x 4,000	ca	12	1,969.2	"	needed
165.2 x 7.0 x 5,000	ca	12	1,641.6	"	"
165.2 x 7.0 x 5,500	ca	2	300.8	"	"
3/4" dia. 12 x 2.3 x 5,000	ca	29	116.0	"	"
40 x 3.2 x 5,000	ca	39	895.9	"	"
130 x 7.0 x 2,500	ca			"	"

Smoke tube

60 x 4.5 x 2,675	ca	9	156.6	"	"
65 x 4.5 x 5,500	ca	100	3,700.0	3	"
70 x 4.0 x 2,685	ca	1,215	21,212.5	"	needed
70 x 4.0 x 4-45"	ca	10	293.0	"	"
70 x 4.5 x 4,000	ca	14	487.4	2	"
70 x 5.0 x 5,500	ca	245	17,836.0	"	needed
75 x 8.5 x 5,500	ca	23	1,943.5	"	"
83 x 9.5 x 4,500	ca	4	310.4	"	"
83 x 9.5 x 5,500	ca	21	2,941.9	"	"
90 x 9.5 x 3,000	ca	1	56.7	1	"
90 x 9.5 x 4,000	ca	20	1,512.0	"	"
100 x 6.5 x 5,500	ca	26	3,147.6	"	"
60 x 4.5 x 5,500	ca	353	11,966.7	3	"
65 x 4.5 x 5,500	ca	372	13,926.8	"	"
70 x 4.0 x 2,685	ca	1,018	19,215.0	5	needed
70 x 4.0 x 5,500	ca	546	19,546.0	"	"
70 x 5.0 x 3,680	ca	20	907.0	"	"

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	100 x 6.5 x 5,500	ea	26	2,141.4		
	60 x 4.5 x 5,500	ea	353	11,266.7	3	
	65 x 4.5 x 5,500	ea	272	13,236.2		
	70 x 4.0 x 2,625	ea	1,078	19,315.0	5	needed
	70 x 4.0 x 5,500	ea	576	19,546.0		
	70 x 5.0 x 3,680	ea	20	902.0		
	70 x 5.0 x 5,500	ea	35	2,359.0	1	needed
	75 x 4.5 x 5,000	ea	90	1,572.1		
	83 x 4.0 x 5,500	ea	217	7,307.2	1	
	83 x 8.0 x 5,500	ea	238	19,387.0	2	
	225 x 10.0 x 4~6"	ea	49	12,007.5	2	
	225 x 12.5 x 3,700	ea	29	7,041.2		
	225 x 12.5 x 4,000	ea	33	6,035.2	1	
	140 x 10 x 5,000	ea	6	963.0		
	320 x 15 x 5,000	ea	6	3,390.0		
	38 x 4.0 x 10,000	ea	9	302.4	1	
	25 x 2.0 x 5,000	ea	134	763.8		
Weld pipe	Inside Dia 250 x 4.0 x 3,000	ea	13	1,094.6		
Steel pipe	Outside Dia 10 x 2.0 x 5,000	ea	196	392.0		needed
	10 x 2.3 x 5,000	ea	56	123.2		
	20 x 1.8 x 5,000	ea	14	56.0		
	20 x 2.0 x 4,000	ea	40	144.0		
	20 x 3.5 x 5,000	ea	11	78.1	1	
	25 x 2.3 x 4,000	ea	61	317.2		
	318 x 64 x 300	ea	17	27.0		
	448 x 64 x 500	ea	32	96.0		
	102 x 4.2 x 5,000	ea	44	2,230.8		
Water tube	32 x 3.5 x 6,000	ea	976	11,484.8		
	38 x 3.5 x 5,800	ea	38	623.2	2	needed
	38 x 3.5 x 10,000	ea	39	1,167.3		
	50 x 4.0 x 7,000	ea	119	2,165.8		
	50 x 4.0 x 7,000	ea	1,035	36,093.0	4	
	50 x 4.0 x 8,000	ea	207	7,534.8	1	



Steel pipe

10 x 2.3 x 5,000	ea	56	123.2
20 x 1.8 x 5,000	ea	14	56.0
20 x 2.0 x 4,000	ea	40	144.0
20 x 3.5 x 5,000	ea	11	78.1
25 x 2.3 x 4,000	ea	61	317.2
38.8 x 6.4 x 300	ea	12	29.0
44.5 x 6.4 x 500	ea	32	96.0
102 x 4.2 x 5,000	ea	44	2,230.8

Water tube

32 x 3.5 x 6,000	ea	976	11,484.8
32 x 3.5 x 5,800	ea	38	623.2
32 x 3.5 x 5,200	ea	39	1,163.2
50 x 4.0 x 4,000	ea	119	3,165.8
50 x 4.0 x 7,000	ea	1,035	36,093.0
50 x 4.0 x 8,000	ea	207	7,534.8
50 x 4.5 x 9,000	ea	20	910.0
50 x 5.0 x 11,000	ea	23	1,405.3
51 x 4.5 x 7,970	ea	24	988.8
51 x 4.5 x 8,000	ea	50	2,665.0
51 x 4.5 x 8,520	ea	421	3,182.4
51 x 4.5 x 9,000	ea	175	2,279.0
51 x 4.5 x 9,140	ea	230	1,055.6
51 x 4.5 x 9,950	ea	11	553.4
51 x 4.5 x 10,500	ea	52	654.0
51 x 4.5 x 5,930	ea	21	768.6
51 x 5.5 x 9,800	ea	16	768.0
60 x 3.5 x 4,100	ea	196	3,920.0
60 x 3.5 x 4,250	ea	24	479.2
60 x 3.5 x 4,500	ea	20	440.0

needed

needed

1907-1910 12065 PART 104 3-4-20/2001 1175013



	mm	mm	mm		Kg		
water tube	60	35	4600	1a	55	1,237.5	new
"	"	"	5250	"	100	3,584.0	"
"	60	45	2600	"	59	944.0	"
"	"	"	4000	"	2	49.4	"
"	"	"	4250	"	52	1,362.4	"
"	"	"	4280	"	109	2,877.6	"
"	"	"	4500	"	165	5,143.0	"
"	"	"	5500	"	81	3,084.9	"
"	65	45	5500	"	85	3,186.5	"
"	70	95	2735	"	30	1,164.0	"
"	75	45	5500	"	150	6,465.0	needed
"	82.5	55	140	"	64	996.0	"
"	"	"	150	"	83	1,323.0	"
"	"	"	2000	"	10	207.0	"
"	"	"	3000	"	64	2,009.6	"
"	"	"	6000	"	12	753.6	"
"	82.5	60	2000	"	125	3,450.0	"
"	82.5	6.5	2000	"	233	5,807.2	"
"	"	"	3000	"	170	3,522.0	"
"	"	"	4000	"	30	1,464.0	"
"	"	"	5000	"	44	2,684.0	"
"	"	"	6000	"	185	4,850.5	"
"	"	"	7000	"	65	5,557.0	"
"	"	"	8000	"	93	2,036.1	"
"	"	"	9000	"	217	5,343.3	"
"	"	"	11000	"	190	2,578.6	"
"	"	"	12000	"	135	2,056.5	"
"	85	10	1000	"	7	75.0	"

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101.6 x 50 x 4000

" x 5000

" x 7000

101.6 x 50 x 4000

" x 5000

101.6 x 65 x 160

" x 2000

" x 2000

" x 4000

" x 6000

" x 7000

130 x 5.5 x 5000

38 x 3.5 x 6000

50 x 4.5 x 2520

51 x 5.5 x 7800

60 x 3.5 x 4250

" x 4500

" x 5250

83 x 60 x 150

Smoke tube

6 x 20 x 2000

10 x 23 x 5000

12 x 18 x 5000

20 x 40 x 4000

30 x 5.0 x 5000

30 x 7.0 x 4500

inside dia 45 x 40 x 5000

12 x 32 x 5000

15 x 3.0 x 5000

15 x 3.5 x 5000

20 x 5.5 x "

30 x 5.0 x "

36 x 5.0 x "

56 2571.2

75 4815.5

32 2250.5

75 7150.5

75 5085.6

75 504.0

135 5947.5

252 11541.6

25 1403.0

30 8328.0

24 2102.0

12 7075.2

6 89.5

133 6392.3

61 2940.2

1191 24772.8

394 8608.2

252 6451.2

11 18.7

20 8.0

11 24.2

67 154.1

23 144.9

14 219.6

14 196.9

26 525.2

12 720

40 2880

52 3848

27 467.4

11 234.8

21 578.7

15 472.5

needed

needed

needed

needed

UNCLASSIFIED 1.0. 12065 SECTION 3-47/2001 10. 775013



	51 x 55 x 7800		61	2940.2		
	60 x 35 x 4250		1191	24772.8	5	needed
	" " x 4500		394	8600.0		
	" " x 5250		252	6451.2		
	83 x 60 x 150		11	15.7		
Smoke tube	6 x 20 x 2000		20	80		
	10 x 23 x 5000		11	24.2		
	12 x 18 x 5000		67	154.1		
	20 x 40 x 4000		23	144.9		
	30 x 5.0 x 5000		14	219.6		
	30 x 7.0 x 4500		16	196.9		
	inside dia. 45 x 4.0 x 5000		26	525.2		
	12 x 3.2 x 5000		12	72.0		
	15 x 3.0 x 5000		40	288.0		
	15 x 3.5 x 5000		52	384.8		
	20 x 5.5 x "		27	467.4		
	30 x 5.0 x "		11	236.5		
	34 x 5.0 x "		21	518.7		
	35 x 5.5 x "		15	412.5		
	40 x 5.0 x "		24	667.2		
Smoke tube	out-side dia. 25 x 3.2 x 250		2281	3649.6		
(special)	38 x 4.5 x 5800		40	864.0		
	" x 6.0 x "		46	1265.0		
	" x 4.5 x 6600		25	615.0		
	" x " x 6800		18	354.2		
	" x 6.0 x 7200		17	375.1		
	110 x 10.0 x 5000		23	2747.5		
	320 x 20 x 4000		46	2120.0		
	420 x 20 x 4000		40	2674.8		
Steel pipe	inside dia. 38 ~ 500					
	5.0 ~ 2150					

FEDERAL BUREAU OF INVESTIGATION  
 SECTION 3-412/9001  
 775013







"	12	~	39	"	26	252	
"	6	~	207	"	108	377	
"	25	~	475	"	157	3008	
"	50	~	700	"	122	3291	
"	25	~	1200	"	118	1610	
"	1500	~	1910	"	46	5663	2
"	163	~	2674	"	26	1877	
"	30	~	300	"	94	814	
"	35	~	700	"	111	1794	1
"	800	~	160	"	53	2857	
"	1800	~	3200	"	17	2265	
"	200	~	650	"	74	1587	1
"	950	~	1100	"	106	6339	1
"	1495	~	3103	"	77	17440	2
"	176	~	500	"	53	602	
"	250	~	700	"	77	2771	108
"	1000	~	1300	"	42	2624	
"	1765	~	2300	"	38	5465	
"	200	~	625	"	68	376	1
"	100	~	470	"	10	2160	
"	1020	~	2100	"	32	6273	
"	100	~	760	"	10	207	
"	1100	~	2500	"	28	1630	
Water tube	250	~	830	"	77	6307	2
"	90	~	830	"	66	4300	
"	10	~	350	"	87	626	
"	65	~	3600	"	27	7387	
"	12	~	700	"	48	1078	

DECLASSIFIED E.O. 12958 SECTION 3-402/NNDG NO. 775013



NAME OF PLANT, LABORATORY, OR ARSENAL:

工場、研究所又ハ兵器廠ノ名稱

Kobe Shipyard and Engine Works

Mitsubishi Heavy Industries, L.T.D.

REPARATIONS PLANTS MATERIALS

賠償工場ノ資材

LOCATION:

所在地 *S'chome, Wadapaki-cho, Hyogo-ku, Kobe, Hyogo.*

General Contractors Association of Japan

Hyogo Prefecture Branch

*Nanshinkogyo Co., Ltd.*

DATE: 日附

SIGNATURE OF OWNER OR CUSTODIAN:

所有者又ハ管理人ノ署名

\*\* SIGNATURE OF LOCAL JAPANESE LIAISON OFFICER:

當該地區日本連絡官ノ署名

*Kioto Tanaka S. Toyazawa*

MATERIAL STOCKS (NOT INSTALLED) 在庫資材表 (施設=含マレザルモノ)

ITEM DESCRIPTION 品 目 名 稱	UNIT 單 位	QUANTITY 數 量	TOTAL ESTIMATED WEIGHT 見 積 總 重 量	NUMBER OF CARLOADS 積 込 貨 車 數	CONDITION *** 狀 態	REMARKS 摘 要

\* Owner or custodian to attach statement if he desires.

所有者又ハ管理人ハ必要ニ應ジ説明書ヲ添附ノコト.

\*\* Prefectural Japanese Liaison Officer to attach statement if he desires.

當該地區連絡官ハ必要ニ應ジ説明書ヲ添附ノコト.

\*\*\* Describe as New, Good, or Poor. "Good" will indicate "suitable for general use." "Poor" will indicate "not suitable for reuse."

状態欄ニハ新品、良品、不良品ト記載ノコト。良品ハ一般使用ニ適スルモノ。不良品ハ再使用ニ適サザルモノヲ示ス。



INSTALLED MATERIALS AND SUPPLIES 施設材料

ITEM DESCRIPTION	UNIT	QUANTITY	TOTAL ESTIMATED WEIGHT	NUMBER OF CARLOADS	REMARKS
品目名稱	單位	數量	見積總重量	積込貨車數	備註

Cast iron pipe	mm				
φ 203.20	Meter	1,198	68.9 ton	4	used
"	"	1,850	76.4	45	"
"	"	260	10.3	1	"
"	"	775	19.5	1.5	"
"	"	310	6.8	1	"
"	"	675	13.2	1	"
Lead pipe	"	1,820	12.7	1	"
"	"	135	0.7	"	"
"	"	50	0.2	"	"
Gas pipe	"	55	0.4	"	"
"	"	405	2.2	"	"
"	"	150	0.5	"	"
"	"	485	1.2	"	"
"	"	60	0.01	"	"
Gate Valve	unit	6	0.96	"	"
"	"	6	0.6	"	"
"	"	12	0.66	1	"
"	"	7	0.2	"	"

*installed*

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



Gate Valve	203.20	unit	6	0.96		
"	101.00	"	6	0.6		
"	10.20	"	10	0.32		
Screwed Valve	50.80	unit	10	0.35		now in use
"	38.10	"	25	0.5		"
"	25.40	"	30	0.035		"
"	19.05	"	40	0.04		"
"	12.70	"	60	0.05		"
Cock	25.40	"	25	0.02		"
"	19.05	"	45	0.03		"
"	12.70	"	500	0.3		"
Vertical type turbine pump	152.40	35 HP	1	1		now in use for well
Centrifugal pump	127.00	7.5 HP	2	0.3		now in use for sterilizing of water
"	177	15 HP	1	0.3		
Turbine feed pump	25 HP	1	1	0.4	1	now in use
"	35 HP	1	1	0.5		
Gravity tank	6.05 x 16 x 21 <sup>m</sup>	1	18.0	1	1	now in use for water supply for factory
"	4.24 x 3.64 x 21	1	5.0	1	1	
Rapidly gravity filter	<sup>m</sup>	2	8.0	1	1	
Gas pipe	127.00	140	2.23			
Gate Valve	127.00	7	6.4			
"	152.40	3	6.3		1	
Gas pipe	152.40	45	0.35			
"	177.80	76	1.36			
Fire hydrant		unit	41	1.5		installed
Minimax fire extinguisher		"	335	0.2		"
Pistol fire extinguisher		"	68	0.035		"
Form fire extinguisher		"	69	0.03		"
Steadfast extinguisher		"	69	0.03		"
Hose	53.30	"	1,500	0.4		
"	50.80	"	700	0.2		

REGISTERED U.S. PAT. OFF. 1226 SECTION 1449 (REV. 11-15-16) 775013



gas pipe	152.40	3	0.3	1	
"	152.40	45	0.35		
"	177.80	76	1.36		
Fire hydrant		unit 41	1.5		installed
Minimax fire extinguisher		335	0.2		
Pistol fire extinguisher		68	0.035		
Form fire extinguisher		69	0.03		
Standfast extinguisher		10	0.03		
Hose	\$ 63.50	1,500	0.4		
"	50.80	700	0.2		
Nozzle	63.50	5	0.1		
"	50.80	11	0.2		
Radiator	360 W	124	20.00	2	now in use for heating
Iron sectional boiler	144,000 B.T.U/H	2	15.00	2	
Kuwani boiler	24,000 0	2	15.00	2	
Water tube	20,000 0	1	10.00	1	
"	80,000 0	1	10.00	1	
Vacuum feed pump		1	1.50		now in use for heating and cooking
Extinguish pump		1	0.85		
Sanitary pump		2	1.00	1	
Bilge pump		1	0.2		
Feed pump		2	0.7		
Lavatory		68	1.0		now in use (2 unit use by the Allied Forces)
Water closet		4	0.13		now in use by the Allied Forces
Squatting water closet		141	2.3		now in use
Urinal		139	1.44	2	
Basin		3	0.02		
Spittoon		6	0.05		
Drinking fountain		6	0.05		

INVESTMENT CO. 12065 1440/100/100

775013



Steadfast extinguisher		10	0.4		
Hose	\$ 63.50	1,500	0.4		
"	50.80	700	0.2		
Nozzle	63.50	5	0.1		
"	50.80	11	0.2		
Radiator	360 W	124	20.00	2	now in use for heating
Iron sectional boiler	144,000 B.T.U./h	2	15.00	2	"
Kewan boiler	24,000	2	15.00	2	"
Water tube	20,000	1	10.00	1	"
"	80,000	1	10.00	1	"
Vacuum feed pump		1	1.50		now in use for heating and cooking
Extinguish pump		1	0.85		"
Sanitary pump		2	1.00	1	"
Bilge pump		1	0.2		"
Feed pump		2	0.7		"
Lavatory		68	1.0		now in use (2 unit use by the Allied Forces)
Water closet		4	0.13		now in use by the Allied Forces
Squatting water closet		141	2.3		now in use
Urinal		139	1.44	2	"
Basin		3	0.02		"
Spittoon		6	0.05		"
Drinking fountain		6	0.05		"

PORTLAND 1-20-12265 SECTION 3-4-12/1913 775013



Note of Opinions  
On Pumping & Sterilizing Installations

Robt Shagyard & Engine Works  
Mitsubishi Heavy Industries Ltd.

This plant is now dependent, in addition to the city water works, on the deep well of the company for the supply of drinking and industrial water to be used in various works, dining room kitchens, offices and many ships in the premises.

In the past, our plant was suffering from the bad flow of water, because it is located at the extreme end of the city water mains. To make it worse, the water pipes in the city were severely damaged by air-raids during the war, and the supply of the city water works has become even lessened at present.

The plant is obliged therefore to turn to the company's deep well which now supply to this plant about half of 75,000 tons of water, the average monthly consumption of the plant.

Under the circumstances, if the pumping and sterilizing installations should be removed, the result would be plain, not only the employees of the company but also the water supply to many ships would suffer a fatal blow.

This is the reason why we implore you to kindly spare the deep well in question from the reparation claims.

Monthly average of water consumption in premises of the plant.

Private water runs	----	35,000 tons
City water runs	----	40,000 tons
		<u>75,000 tons</u>



Note of Opinions  
On Heating Arrangements

Kobe Shipyard & Engine Works  
Mitsubishi Heavy Industries Ltd.

The heating arrangements of the plant is now limited to the general office, a room on the sixth floor used solely by Commander Byrne (U.S.M.C.), superintendent of the Occupation Forces, and to other minor space.

However, the boiler and the pump needed, are used not only for the heating apparatus alone, but also for the binning room kitchen for employees, fire-distinguishing installations, and health facilities.

In case, therefore, these installations should be removed, its effect would be unexpectedly far-reaching.

In this light, it is respectfully requested that the heating arrangements mentioned above shall be excepted from the appointment of the reparation.

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



Note of Opinions  
On Fire Extinguishing Implements

Kobe Shipyard & Engine Works  
Mitsubishi Heavy Industries Ltd.

The fire extinguishing implements mentioned above, are equipped at all the strategic points throughout the compound, with an aim to protect various factory buildings and reparation properties scattered in the area of about 462,000 square meters.

In an event these emergency equipments should be taken away, it would be impossible for the company to safeguard the properties. It is most earnestly entreated, therefore, that you will give this matter your special considerations so that the fire implements of the plant may be excepted from reparation claims.



MGP 37

Kobe Shipyard and Engine Works  
**REPAIRATIONS PLANTS MATERIALS**

NAME OF PLANT, LABORATORY, OR ARSENAL:  
 工場、研究所又ハ兵器廠ノ名稱 Mitsubishi Heavy Industries, L.T.D.

賠償工場ノ資材  
 General Contractors Association of Japan  
 Hyogo Prefecture Branch  
 Nakajima Gumi C.T.D.

LOCATION:  
 所在地 3 chome, Wadasaki-cho, Hyogo-ken, Kobe, Hyoge

SIGNATURE OF OWNER OR CUSTODIAN:  
 所有者又ハ管理人ノ署名

\*\* SIGNATURE OF LOCAL JAPANESE LIAISON OFFICER:  
 當該地區日本連絡官ノ署名 Hiroto Tanaka

DATE:  
 日附 A. Okada

MATERIAL STOCKS (NOT INSTALLED) 在庫資材表 (施設=含マレザルモノ)

ITEM DESCRIPTION 品目名稱	UNIT 單位	QUANTITY 數量	TOTAL ESTIMATED WEIGHT 見積總重量	NUMBER OF CARLOADS 積込貨車數	CONDITION *** 狀態	REMARKS 摘要

\* Owner or custodian to attach statement if he desires.  
 所有者又ハ管理人ハ必要ニ應ジ説明書ヲ添付ノコト。

\*\* Prefectural Japanese Liaison Officer to attach statement if he desires.  
 當該地區連絡官ハ必要ニ應ジ説明書ヲ添付ノコト。

\*\*\* Describe as New, Good, or Poor. "Good" will indicate "suitable for general use." "Poor" will indicate "not suitable for reuse."  
 狀態欄ニハ新品、良品、不良品ト記載ノコト。良品ハ一般使用ニ適スルモノ、不良品ハ再使用ニ適サザルモノヲ示ス。

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



(1)				P.F.	
Cedar	0.10 x 0.10 x 10.00	*	45	(0.45) 53.10	
"	0.10 x 0.10 x 12.00	"	97	(1.17) 138.06	1
"	0.20 x 0.20 x 13.20	"	406	(2.18) 2534.64	
"	0.25 x 0.25 x 13.20	"	195	(16.09) 1878.63	
"	0.25 x 0.15 x 13.20	"	12	(0.62) 73.16	
"	0.30 x 0.30 x 20.00	"	10	(1.80) 212.40	1
"	0.30 x 0.30 x 18.00	"	1	(0.60) 18.00	
"	0.30 x 0.17 x 13.20	"	26	(1.78) 210.04	
"	0.35 x 0.35 x 13.20	"	221	(36.82) 4326.76	1
"	0.38 x 0.38 x 13.20	"	55	(10.99) 1237.82	
"	0.40 x 0.40 x 13.00	"	3	(0.62) 73.16	6
"	0.40 x 0.40 x 13.20	"	1121	(236.86) 2794.98	8
"	0.40 x 0.40 x 18.00	"	3	(1.86) 181.98	
"	0.40 x 0.40 x 20.00	"	20	(6.54) 774.98	1
"	0.45 x 0.45 x 13.20	"	167	(31.41) 3706.38	
"	0.45 x 0.45 x 18.00	"	5	(1.82) 219.76	
"	0.45 x 0.45 x 13.00	"	4	(1.05) 123.90	
"	0.45 x 0.45 x 20.00	"	5	(2.20) 257.60	
"	0.50 x 0.50 x 13.20	"	13	(9.29) 306.23	1
"	0.50 x 0.50 x 10.00	"	19	(9.75) 306.50	
"	0.50 x 0.40 x 18.00	"	9	(3.10) 363.80	
"	0.50 x 0.50 x 18.00	"	4	(2.00) 236.00	
"	0.50 x 0.50 x 13.00	"	4	(1.96) 172.28	
"	0.55 x 0.55 x 10.00	"	3	(1.60) 118.00	
"	0.55 x 0.55 x 13.00	"	4	(1.58) 186.44	
"	0.60 x 0.60 x 20.00	"	4	(2.88) 339.84	
"	0.03 x 0.25 x 13.20	枚	3420	(33.86) 3995.98	1
"	0.03 x 0.50 x 13.20	"	3480	(68.90) 8130.20	2
"	0.03 x 0.70 x 6.60	"	1200	(16.63) 196.57	1
"	0.05 x 0.50 x 6.60	"	300	(4.99) 589.10	
"	0.06 x 0.70 x 6.60	"	70	(1.94) 228.92	
"	0.06 x 0.75 x 13.20	"	330	(12.60) 231.28	
"	0.06 x 0.90 x 13.20	"	30	(2.14) 252.52	1
"	0.07 x 0.50 x 6.60	"	100	(2.31) 272.58	
"	0.10 x 0.65 x 13.20	"	110	(9.44) 1113.92	
"	0.12 x 1.15 x 10.00	"	10	(1.38) 162.84	1
"	0.13 x 0.75 x 13.20	"	45	(5.78) 682.04	



				Actual Quant. Approximate	Kind of work	Unit	Name of Customers
45	(10.45)	53.10		PF 17.700	for. Reparatoin consrolation		
97	(1.17)	138.06	1				
406	(21.48)	2534.64					
195	(16.09)	1898.62					
12	(0.62)	73.16					
10	(1.80)	212.40	1				
1	(0.60)	10.80					
26	(1.78)	210.04					
221	(35.82)	4226.96	1				
55	(10.99)	1237.82	1				
3	(0.62)	73.16		PF 118.000	procure Demand No. HYGE 923-A-B	1	Rising Sun Co.
121	(236.86)	2799.58	8				
3	(0.86)	101.48					
20	(6.56)	774.08	1				
167	(31.41)	3706.38					
5	(1.82)	214.70					
4	(1.05)	123.90					
5	(2.20)	259.60					
13	(4.29)	506.25	1				
19	(4.75)	566.50					
9	(3.10)	363.80					
4	(2.00)	236.00					
4	(1.96)	172.28					
3	(1.00)	118.00					
4	(1.58)	186.44					
4	(2.88)	339.84					
3920	(33.86)	3995.98	1				
3980	(68.90)	8130.20	2				
200	(16.63)	196.57	1				
300	(4.99)	589.10		PF 17.700	Acmei - Halodak Ferry - boat	1	Traffic Department
70	(1.94)	228.92		5.900	procure Demand No. HYGE 923-A-B	1	Rising Sun Co.
330	(19.60)	231.28					
30	(2.14)	252.52	1				
100	(2.31)	272.58					
110	(9.44)	1113.92					
10	(1.38)	162.84	1	PF 59.000	Acmei and Halodak Ferry - boat	1	Traffic Department
95	(5.78)	682.04					



(2)		Area		P.F.	
Cedar	0.75 x 0.75 x 13.20	25	(371)	438.78	
	0.20 x 0.80 x 13.20	12	(264)	311.52	
Pine tree	0.05 x 0.60 x 6.60	3250	(64.35)	7593.30	2
	0.08 x 0.60 x 6.60	425	(13.47)	1589.46	1
	0.09 x 0.65 x 6.6	280	(10.81)	1275.58	
Hokai Pine tree	0.06 x 0.6 x 13.20	350	(12.88)	1519.24	
Hokai Pine tree	0.05 x 0.60 x 10.00	225	(8.25)	993.50	1
	0.07 x 1.00 x 13.20	10	(1.00)	118.00	
	0.08 x 0.60 x 13.20	290	(18.37)	2169.66	1
Hemlock spruce	0.05 x 1.00 x 13.20	450	(29.70)	3504.60	1
	0.05 x 1.00 x 20.00	350	(35.00)	4130.00	1
	0.08 x 0.55 x 13.20	1000	(58.08)	6253.44	2
	0.08 x 0.55 x 20.00	200	(17.60)	2076.80	1
	0.08 x 0.50 x 13.20	1600	(84.48)	9968.64	3
	0.13 x 1.50 x 6.60	30	(3.86)	455.48	1
	0.20 x 1.00 x 13.20	385	(14.64)	1993.52	4
Stopper	0.15 x 0.90 x 6.00	90	(5.67)	669.06	0.5
	0.15 x 0.90 x 10.00	228	(30.78)	3633.04	1
	0.15 x 0.90 x 6.00	110	(8.91)	1051.38	1
Oak	0.08 x 0.50 x 10.00	100	(4.00)	492.00	1
	0.08 x 0.60 x 4.00	750	(14.40)	1699.20	
	0.08 x 0.70 x 8.00	400	(17.92)	2114.56	
	0.10 x 0.50 x 10.00	60	(3.00)	354.00	
	0.10 x 0.60 x 4.00	70	(1.68)	198.24	1.5
	0.10 x 0.70 x 10.00	140	(9.80)	1156.40	
The Lumber Cedar	(dia) (dia) (dia) (0.50 ~ 2.00) x 12.00	512	(130.00)	15340.00	33
The Lumber Cypress	(1.50 ~ 3.00) x 12.00	50	(18.00)	1910.00	3
The Lumber Pine	(0.80 ~ 1.00) x 12.00	928	(62.00)	9154.00	16
The Lumber Hokai pine	(1.00 ~ 2.00) x 12.00	258	(54.00)	6923.60	14
The Lumber hemlock spruce	(1.00 ~ 2.00) x 12.00	880	(150.00)	1780.00	39
The Lumber Zelcowa tree	(0.40 ~ 0.80) x 12.00	212	(318.00)	37524.00	11
The Lumber oak tree	(0.80 ~ 1.50) x 12.00	15	(35.00)	4130.00	
The Lumber american pine	1.00 x 20.00	2	(4.00)	492.00	1
The Lumber siopi	1.00 x 12.00	5	(15.00)	1770.00	
Pine tree	0.05 x 0.6 x 6.60	850	(20.19)	2382.42	1
Stopper	0.15 x 0.90 x 12.00	100	(6.42)	792.96	0.5



Item No.	Quantity	Unit Price	Total Price	Condition	Remarks	Agency
25	(371)	438.78		good	Amori-Hakoda	The Department of Transportation
12	(264)	311.52			-to Ferry-boat	
3250	(64.35)	2593.30			PF 19,700.00 Repairation Conservation	
425	(12.97)	1589.46				
280	(10.81)	1275.58				
250	(12.88)	1519.84				
325	(8.38)	992.50				
10	(1.00)	118.00				
290	(18.37)	2167.66			PF 35,400.00 for packing	20
450	(29.70)	3504.60				
350	(35.00)	4130.00				
1000	(198.08)	6253.44			Amori Hakodate	The Department of Transportation
200	(17.60)	2076.80			Ferry-boat	
1500	(82.48)	9958.64			S.S. Sintoku	Training School
300	(3.88)	455.48			S.S. Shirin	
380	(11.55)	1993.52			AOG 4	U.S.M.C.
90	(5.87)	669.06			PF 11,800 S.S. Tonegawa	C.O.M.C.
220	(30.78)	3632.04			S.S. Akita	S.S. Kansai Co.
110	(8.91)	1054.38			S.S. Isahaya	Training School
100	(4.00)	492.00			V 204	C.O.M.C.
750	(14.00)	1695.00			S.S. Nanse	
400	(17.92)	2145.60			S.S. Tatutama	
50	(3.00)	354.00			S.S. Daiho	
70	(1.88)	198.24		1.5	S.S. Asatuki	Training School
140	(9.80)	1158.80				
312	(130.00)	1539.00		33	PF 531,000	The Department of Transportation Training Schools U.S.M.C. C.O.M.C.
50	(1.00)	1180.00		3		
928	(62.00)	9416.00		16	PF 75,200 Conservation and Packing	
258	(52.00)	6923.60		14		
680	(150.00)	1780.00		39		
212	(318.00)	3752.40		11		
15	(35.00)	4130.00			Amori, Hakodate	The Department of Transportation
2	(4.00)	472.00		1	472,000 Ferry-boat and Damaged ship	12 -portation. Training School U.S.M.C. C.O.M.C. and other.
5	(15.00)	1770.00			AOG 2 P.D.N. NYGE 2499	
850	(20.19)	2382.42		1	36 P.D.N. NYGE 3143	
100	(6.42)	792.96		0.5		



(3)				
Nail Wire		lbs		
	$\frac{3}{8}$ "		750	600.00
	$\frac{3}{4}$ "		80	36.0
	7"		800	364.0
	1 $\frac{1}{4}$ "		700	318.0
	2 $\frac{1}{2}$ "		840	381.0
	3"		6330	2877.0
	3 $\frac{1}{2}$ "		3030	1377.0
	4"		150	68.0
	6"		110	50.0
Bolt. iron steel heragon head and $\frac{1}{2}$ mit. black		ea		
	$\frac{1}{4}$ " x 1"		3900	180.0
	" x 1 $\frac{1}{2}$ "		3500	60.0
	$\frac{1}{2}$ " x 2"		230	30.0
	$\frac{5}{8}$ " x 3"		450	100.0
	$\frac{3}{4}$ " x 4"		80	30.0
	" x 5"		205	89.0
Iron Clamps		lbs		
	5"		660	300.0
	6"		2640	1700.0
	14"		1980	900.0
Screw wood iron c.s. head	$\sim \frac{3}{4}$ "	qs.	526	1200.0
"	1" $\sim 1 \frac{1}{8}$ "		388	900.0
"	1 $\frac{1}{2}$ " $\sim 1 \frac{3}{4}$ "		700	1680.0
"	2" $\sim$		1812	4320.0
Screw wood iron R.S. head	$\sim \frac{3}{4}$ "		465	250.0
	1" $\sim 1 \frac{1}{8}$ "		100	240.0



			Actual quantity of individuals	Name of Works	Unit	Name
50	600.00	New	7500			
80	36.0	"	80			
00	364.0	"	800			
00	318.0	"	700			
40	381.0	"	840	7000KW Ljungstrom		
30	2877.0	"	6330	Turbine	1 set	Mitsubishi Mining Ind
30	1377.0	"	3030	Vacuum Salt prod-	1 set	Akaho Kishihama Salt producing
50	68.0	"	150	cing Equipment		Takahama Union "
10	50.0	"	110			Osaka "
		New				Taisei "
300	180.0	"	9900	Band Sawing Machine (48')	65 pa	Kobe Salaried men's Union.
500	60.0	"	3500	260 Type Salvage Boat	1 boat	Personal Use.
230	30.0	"	230	3700 Type Railway Ferry	3 boats	Trafic Dept.
150	100.0	"	450	boat.		
80	30.0	"	80	330 Type Diesel boat	1 boat	Tokai Steamship Co.
205	89.0	"	205	1000 Type Diesel boat	2 "	Kansai Steamship Co.
				Repairing Ships	300	Allied Forces. v. etc.
660	300.0	New	440			
640	1700.0	"	2200			
980	900.0	"	200			
526	1200.0	New	1200			
388	900.0	"	900			
700	1680.0	"	1680			
812	4320.0	"	4320			
465	250.0	"	250			
100	240.0	"	240			



(4) Iron Hinge	2 1/2	ea	5,863	213 1/4
	3	"	97	7
	3 1/2	"	115	11
	4	"	172	28
Brass Door Lock, right	3 1/2 x 4 1/2	"	37	32
left		"	30	26
Iron pad Lock.	2	"	78	10
	2 1/2	"	129	24
Solder Bar Class A.		kg	2,079	2,079
Wire Class B.		"	148	148
Iron Drawer Lock	2 1/2	ea	69	10
Shell pull.		"	3,000	60
F.M.S. Nut	1/4	ea	3,600	1,620
	5/16	"	2,500	1,080
	3/8	"	4,000	1,800
	1/2	"	3,900	1,790
	5/8	"	1,440	650
	3/4	"	666	300
	7/8	"	7,230	3,250
	1	"	6,240	2,810
	1/8	"	8	4
	3/16	"	66	30
	1/16	"	22	1
Brass nut	3/16	"	160	72
	1/8	"	537	17

2



			Actual quantity of materials used	Name of works	unit	Name of contractor
863	213 kg	raw	213			
97	7	.	7			
15	11	.	11			
72	28	.	28			
37	32	.	32			
30	26	.	26			
78	10	.	10			
29	24	.	24	7000kw Lyngstems turbine	1 set	Bibi Mitsubishi Mining Ind.
079	2079	.	2079			
148	148	.	148	Vacuums salt producing Equipment	1 set	Alaka Nishikawa Salt producing
69	10	.	10			Tokihama
000	60	.	60			Osaka
600	1620	.	1620			Taisei
500	1080	2	1080			
000	1800	.	1800	48 Band sawing machines	65 pos	Kato laborist mens union
990	1790	.	1790	260T type sailing boat	1 boat	Personal use
440	650	.	650			
666	300	.	300	3700T type sailing ferry boat	3	Traffic Dept.
230	3250	.	3250			
240	2810	.	2810	550T type Diesel boat	1	Tokai Steam Ship
8	4	.	4			
66	30	.	30	7000T type Diesel boat	2	Kanado Steam Ship
22	1	.	0	Repairing ship	309	U.S.A. etc.
160	72	.	72			
37	17	.	17			



(5)	Portland cement	kg	1250	1250 kg	} 15
	Brick fire	ea	14,000	50,000	
	Different size Brick fire	"	7,500	30,000	
	Brick	"	16,700	53,200	
	Fire clay	kg	1,000	1,000	} 10
	Sand	m <sup>3</sup>	30	45,000	
	Gravel	"	36	54,000	
	Diatomaceous earth	kg	4,000	4,000	1/2
	Japanese tile	piece	25,000	55,000	6
	Bamboo lath	m <sup>2</sup>	8,000	3,300	} 1
	Warm mat	sheet	151	3,000	
	Cork sheet	"	81	200	
	Waste cork	kg	3,000	3,000	



			Actual quantity of materials used	name of works	unit	name			
50	1250 kg	} 15	new 1500 ton	3700 type 5400HT turbine ferry-boat	3 ships	Traffic Department			
000	50.000		' 1075						
500	30.000		'						
700	53200		' 555				Ship repairing 300 ships	U.S.M.C. etc.	
000	1.000	} 10	1200 kg	Using for works of protecting wall for the 3rd pier					
30	45.000		good 50 <sup>m</sup>						
36	54.000		' 36						
000	4.000		new 4.000 kg				3700 type 5400HT turbine ferry-boat	3 ships	Traffic Department
000	55.000	} 6	poor 25.000	Using for custody for reparation	1 set	Personal use.			
000	3.300		' 8.000 m <sup>2</sup>						
151	3.000		new 151 sheet				Using for workers dormitory		
81	200		poor 81				3700 type 5400HT	3 ships	Traffic Department
5.000	3.000	} 1	' 0	turbine ferry-boat					



(6)

Enamel alcodosinous inside, quick drying 1 gal. container black.	gal	80.	256 <sup>14</sup>
Paint cold water inside, powder-2.5 lb. cream.	lb	74	37
Paint oil exterior, ready mixed pigment base. an anticorrosive red 5 gal. can	gal.	3,250	16,250 <sup>1</sup>
Putty 1 lb can	lb	1,450	725 <sup>1</sup>
Paint oil exterior, ready mixed base blue general purpose 5 gal can.	gal	25	125 <sup>1</sup>
Ditto red	"	20	100 <sup>1</sup>
Ditto black	"	325	1,625 <sup>1</sup>
Turpentine gum spirits, 5 gal can	"	50	160 <sup>1</sup>
Zinc paint white	lb	12,800	6,400 <sup>1</sup>
Waste oil	gal	150	600 <sup>1</sup>
Ante Colosine	gal	815	3,260 <sup>1</sup>
Boat Popping	"	1,050	5,250 <sup>1</sup>

35



			Actual quantity of materials used	Name of works	unit	Name of command
80.	256 <sup>kg</sup>	} 35	80 gal	Aomori-Hakodate ferry-boat (3,700tm, 5,400hp) (Turbine type)	3 ships	Traffic Department
74	37		74 lb	Ships Repairing	309 ships	U.S.M.C. & etc
3,250	16,250		3,100 gal	Ditto	Ditto	Ditto
1,450	725		1,450 lb	Ditto	Ditto	Ditto
25	125		25 gal	Ditto	Ditto	Ditto
20	100		20 gal	Ditto	Ditto	Ditto
325	1,625		325 gal	Ditto	Ditto	Ditto
50	160		50 gal	Ditto	Ditto	Ditto
2,800	6,400		12,800 lb	Ditto	Ditto	Ditto
150	600		150 gal	Ditto	Ditto	Ditto
815	3,260	815 gal	Ditto	Ditto	Ditto	
1,050	5,250	1,050	Ditto	Ditto	Ditto	



(7) Tar Rope		Kg	
	30 <sup>m</sup> / <sub>m</sub>		3.000
	28 <sup>m</sup> / <sub>m</sub>		1.500
	26 <sup>m</sup> / <sub>m</sub>		2.000
	24 <sup>m</sup> / <sub>m</sub>		2.000
	22 <sup>m</sup> / <sub>m</sub>		1.200
	20 <sup>m</sup> / <sub>m</sub>		2.100

Manila Rope		Kg	
	55 <sup>m</sup> / <sub>m</sub>		2.000
	50 <sup>m</sup> / <sub>m</sub>		2.500
	40 <sup>m</sup> / <sub>m</sub>		300
	30 <sup>m</sup> / <sub>m</sub>		250
	28 <sup>m</sup> / <sub>m</sub>		800
	26 <sup>m</sup> / <sub>m</sub>		810
	24 <sup>m</sup> / <sub>m</sub>		600
	22 <sup>m</sup> / <sub>m</sub>		400

Rubber Sheet		Kg	
	1/16" x 1 m		150
	1/8" x 1 m		350
	1/4" x 1 m		90
	3/8" x 1 m		450

Water hose		m.	
	3/4"		20
	1"		10
	5/8"		250
	1 1/2"		100



775013

			Actual quantity of material used	Name of Works	Unit	Name
3.000	3.000		3.000			
1.500	1.500		1.500			
2.000	2.000		2.000			
2.000	2.000	1	2.000	New		
1.200	1.200		1.200			
2.100	2.100		2.100		3	The Department of Transportation.
2.000	2.000		2.000	Agonori Habitation		
2.500	2.500		2.500	Ferry boat (3700ton 5400HP) (Turbine Type)	309	U.S.M.C. etc
300	300		300			Kansai Steamship Co.
250	250		250	Ships Repairing		Utsui Kai
800	800	1	800	New		Hyogo Prefectural Office
810	810		810			Training School
600	600		600			The Department of Kobe
400	400		400			Maritime Administration
150	150		70			
350	350		150			
90	90	1/2	90	New		
450	450					
20	60		20	Ferry Boat (3700ton 5400 H.P.) (Turbine Type)	3	
10	20		10		309	
250	500	1/4	250	New		Ships Repairing
100	400		100			



(8)

Wire Rope	1.5 <sup>1/4</sup> x 19/16 x 200 <sup>M</sup>	Kg	730	730
"	2.0 <sup>3</sup> x " x "	"	200	200
"	3.0 <sup>3</sup> x " x "	"	2,420	2,420
"	4.0 <sup>3</sup> x " x "	"	4,200	4,200
"	5.0 <sup>3</sup> x " x "	"	736	736
"	6.0 <sup>3</sup> x " x "	"	1,145	1,145
"	10 <sup>1/4</sup> x 19/16 x "	"	9,087	9,087
"	" x 24/16 x "	"	4,472	4,472
"	12 <sup>1/4</sup> x " x 100 <sup>M</sup>	"	7,974	7,974
"	" x " x 219 <sup>M</sup>	"	10,317	10,317
"	" x 37/16 x 200 <sup>M</sup>	"	416	416
"	14 <sup>1/4</sup> x 24/16 x 100 <sup>M</sup>	"	7,230	7,230
"	" x " x 200 <sup>M</sup>	"	4,288	4,288
"	15 <sup>1/4</sup> x 27/16 x 200 <sup>M</sup>	"	4,614	4,614
"	16 <sup>1/4</sup> x 24/16 x 200 <sup>M</sup>	"	1,974	1,974
"	17 <sup>1/4</sup> x 27/16 x 200 <sup>M</sup>	"	5,798	5,798
"	18 <sup>1/4</sup> x 24/16 x 133 <sup>M</sup>	"	7,748	7,748
"	" x " x 200 <sup>M</sup>	"	5,329	5,329
"	20 <sup>1/4</sup> x " x "	"	10,800	10,800
"	" x 39/16 x "	"	2,128	2,128
"	22 <sup>1/4</sup> x 24/16 x "	"	13,402	13,402
"	" x 37/16 x "	"	693	693
"	" x " x 400 <sup>M</sup>	"	660	660
"	24 <sup>1/4</sup> x 19/16 x 200 <sup>M</sup>	"	840	840
"	" x 24/16 x "	"	6,844	6,844
"	26 <sup>1/4</sup> x " x "	"	6,976	6,976
"	28 <sup>1/4</sup> x " x "	"	13,750	13,750
"	" x 37/16 x "	"	1,131	1,131
"	30 <sup>1/4</sup> x 24/16 x "	"	20,256	20,256



Item No.	Quantity	Unit	Material	Value	Remarks
130	730		New	730	The materials are used as follows:
200	200		"	200	
2,424	2,424		"	2,400	1. Railway fence 3. ship
4,206	4,206		"	4,160	between Aomori
736	736		"	1,050	and Hokkaido
746	7,145		"	7,180	2. Small tug of 100GT
9,087	9,087		"	4,800	passenger boat 200GT
4,472	4,472		"	4,700	3. Ship Repairing 5000GT
7,974	7,974		"	5,900	(Contract) The Allied Forces and
10,317	10,317	4	"	9,800	4. Salt producing 4 sets
416	416		"	400	Kitahama Salt
1,230	1,230		"	1,230	Manufacturing Association
4,208	4,208		"	4,200	- ion.
4,670	4,670		"	0	Also Salt manufacturing
7,974	7,974	2	"	0	Association.
5,798	5,798		"	0	5. Road roller 10 sets
7,705	7,705		"	5,250	The Institute of
5,329	5,329		"	5,600	War-damage Recovery.
10,800	10,800	3	"	6,500	6. Tractors 40 sets
2,128	2,128		"	2,128	Hokkaido Governmental
3,402	3,402		"	9,000	Office.
693	693		"	693	7. Refrigerators 350 sets
660	660	1	"	660	The allied Forces.
840	840		"	840	
6,844	6,844		"	4,750	
6,976	6,976		"	4,900	
13,750	13,750	2	"	6,500	
1,131	1,131	2	"	1,131	
20,256	20,256		"	8,100	

**Note:**

These materials are not sufficient to complete above mentioned works, and in fact we are facing the difficulty how to fill up our insufficient materials at present.



(9)	Wire Rope - (For the protection of mine)	Kg		
	15 <sup>m</sup> / <sub>4</sub> x 27 <sup>m</sup> / <sub>3</sub> x 65 <sup>m</sup> right	8,443	8,443	}
	" x " x " left	7,068	7,068	
	" x " x 200 <sup>m</sup> right	463	463	
	" x " x " left	232	232	
	17 <sup>m</sup> / <sub>4</sub> x " x 65 <sup>m</sup> right	1,648	1,648	
	" x " x " left	3,307	3,307	
	" x " x 276 <sup>m</sup> right	282	282	
Wire Rope	38 <sup>m</sup> / <sub>4</sub> x 24 <sup>m</sup> / <sub>6</sub> x 200 <sup>m</sup>	9,446	9,446	
"	40 <sup>m</sup> / <sub>4</sub> x 19 <sup>m</sup> / <sub>6</sub> x "	1,413	1,413	
"	42 <sup>m</sup> / <sub>4</sub> x 24 <sup>m</sup> / <sub>6</sub> x "	2,335	2,335	
"	" <sup>m</sup> / <sub>4</sub> x 19 <sup>m</sup> / <sub>6</sub> x "	11,440	11,440	
"	46 <sup>m</sup> / <sub>4</sub> x " x "	7,776	7,776	

6



			Actual quantity of material used	Name of Works	Unit	Name of Customers
43	8,443	New	0	1. Railway ferries	3 ships	The Departments of Transport
68	7,068		0	between Aomori		Station.
63	463		0	and Hokkaido.		
32	232		0	2. Small type of	1,000 BT 2-foot 3-foot	Kanagawa Steam-ship Co.
48	1,648		0	passenger boat.	1 boat	Tokyo Steam-ship Co.
307	3,307		0	3. Ship Repairing	50,000 BT Overhead	The Allied Forces and others
282	282		0	4. Salt producing	4 sets	Kitayama Salt Manufact-
406	9,446		0	machine.		ure Association.
413	1,413		0			Aomori Salt Manufacturing
335	2,335		0			Association.
440	77,440	0	5. Road roller.	10 sets	The Institute of war-dama-	
776	7,776	0			ge Recovery	
				6. Trucker.	40 sets	Hokkaido Governmental
				7. Refrigerators.	350 sets	Office. The Allied Forces.

Note:  
 These materials are not sufficient to complete above mentioned works, and in fact we are facing the difficulty how to fill up our insufficient materials at present.



(10)	Iron wire	B.W.G #	4	Kg	154	154	2
	"	"	5	"	11280	11280	
	"	"	6	"	654	654	
	"	"	10	"	370	370	
	"	"	12	"	857	857	
	"	"	14	"	298	298	
	"	"	16	"	2,427	2,427	
	"	"	18	"	230	230	
	"	"	19	"	1243	1243	
	"	"	22	"	378	378	
	Galvanized iron wire	B.W.G #	8	Kg	1722	1722	1
	"	"	10	"	165	165	
	"	"	12	"	164	164	
	"	"	13	"	175	175	
	"	"	14	"	160	160	
	Seizing wire	dia	1.6 mm	Kg	213	213	1
	"	"	2.0 "	"	1200	1200	
	"	"	3.7 "	"	256	256	
	"	"	4.5 "	"	130	130	
	Galvanized iron sheet	#	18	Kg	1020	1020	1
	"	"	20	"	183	183	
	"	"	22	"	404	404	
	Tin-plate		0.6 mm	Kg	5809	5809	1
	Expansion metal lath	size	3x6	Kg	132	132	
	"	pitch	1/16" = 1/2"	"	34	34	



			Actual quantity of material used	Name of works	Unit	Name of
4	154	good	1,500 <sup>kg</sup>	The materials are used as follows:		
0	11,280	"	11,280 <sup>kg</sup>	1. Railway ferris	3 ship	The Department of Transportation
4	634	"	634	between Amori and Hakodate.		
0	370	"	370 <sup>kg</sup>			
7	857	"	857 <sup>kg</sup>	2. Small type of	1000 ST. 2 boat	Kanai Steam-ship Co.
5	298	"	298 <sup>kg</sup>	passenger boat.	300 ST. 1 boat.	Tokei Steam-ship Co.
7	2,427	"	2,427 <sup>kg</sup>	3. Ship Repairing	600000	The Allied Forces and others
0	230	"	230 <sup>kg</sup>	4. Salt production	4 sets	Kitahama Salt Manufacturing association.
3	1,243	"	1,243 <sup>kg</sup>	Machines		
6	378	"	378 <sup>kg</sup>	5. Road roller	10 sets	The Institute of War-damage Recovery.
2	1,722	good	1,722 <sup>kg</sup>	6. Tractor	40 sets	Hokkaido Governmental Office.
5	165	"	165 <sup>kg</sup>			
4	164	"	164 <sup>kg</sup>	7. Refrigerators	350 sets	The Allied Forces.
5	175	"	175 <sup>kg</sup>			
0	160	"	160 <sup>kg</sup>			
3	213	poor	213 <sup>kg</sup>			
0	1,200	"	650 <sup>kg</sup>	Note: These materials are not sufficient to complete above mentioned works, and in fact we are facing the difficulty how to fill up our insufficient materials at present.		
6	256	"	256 <sup>kg</sup>			
0	130	"	130 <sup>kg</sup>			
20	1,020	good	1,020 <sup>kg</sup>			
33	183	"	183 <sup>kg</sup>			
04	404	"	404 <sup>kg</sup>			
09	5,809	new	5,809 <sup>kg</sup>			
32	132	poor	132 <sup>kg</sup>			
34	34	"	34 <sup>kg</sup>			



(11)	Copper (pure)	ton	50.3	5
	Lead	.	15	
	Ingot (Remelted from Aluminum Scrap)	.	0.316	
	Phosphor Copper	.	0.6	
	Nickel Manganese Bronze	.	0.5	
	Bronze (Gun Metal)	.	1.	



			Actual quantity of material	Name of works	Unit	No.
50	5	Good	90	The materials	are used as follows;	
15		"	18	1. Railway ferries between Aomori and Hakodate	3 ships	The Department of Transportation.
0.316		Poor	1.2	2. Small type of passenger boat	1,000 Q.T. 2 boats 300 Q.T. 1 boat	Kansai Steamship Co. Tokai Steamship Co.
0.6	1	Good	0.9	3. Ship Repairing	50,000 Q.T. one month	The Allied Forces and others
0.5		"	0.5	4. Salt producing machine.	4 sets	Kitahama Salt Manufacturing Association. Ako Salt Manufacturing Association.
1		"	3	5. Road roller	10 sets	The Institute of War Damage Recovery.
		"		6. Tractor	40 sets	Hokkaido Governmental Office.
		"		7. Refrigerators	350 sets	The Allied Forces.

Note:

These materials are not sufficient to complete above mentioned works, and in fact we are facing the difficulty how to fill up our insufficient materials at present.



42)		Price	P.F.	
Cedar	0.15 x 0.75 x 13.20	25	(3.71)	438.98
	0.20 x 0.80 x 13.20	12	(2.64)	311.52
Pine tree	0.05 x 0.60 x 6.60	3250	(64.35)	7593.30
	0.08 x 0.60 x 6.60	425	(13.47)	1589.46
	0.09 x 0.65 x 6.60	280	(10.81)	4495.58
Hokkai Pine tree	0.06 x 0.6 x 13.20	250	(12.88)	4519.50
Hokkai Pine tree	0.05 x 0.60 x 10.00	225	(4.25)	992.50
	0.07 x 1.00 x 13.20	10	(1.00)	118.20
	0.08 x 0.60 x 13.20	290	(15.37)	2169.66
Hemlock spruce	0.05 x 1.00 x 13.20	450	(29.70)	3504.60
	0.05 x 1.00 x 20.00	350	(33.00)	4130.00
	0.08 x 0.55 x 13.20	1000	(58.88)	6253.44
	0.08 x 0.55 x 20.00	200	(17.60)	2076.80
	0.08 x 0.50 x 13.20	1600	(82.48)	9968.80
	0.13 x 1.50 x 6.60	30	(3.80)	459.28
	0.20 x 1.00 x 13.20	385	(11.66)	1993.52
Stopper	0.15 x 0.90 x 6.00	90	(5.47)	669.06
	0.15 x 0.90 x 10.00	228	(30.78)	3632.44
	0.15 x 0.90 x 6.00	110	(8.91)	1051.20
Oak	0.08 x 0.50 x 10.00	100	(4.00)	472.00
	0.08 x 0.60 x 4.00	750	(14.00)	1099.20
	0.08 x 0.70 x 8.00	200	(17.92)	2185.60
	0.10 x 0.50 x 10.00	60	(3.00)	305.00
	0.10 x 0.60 x 4.00	70	(1.68)	178.24
	0.10 x 0.70 x 10.00	140	(9.80)	1158.40
The Lumber Cedar	(dia) (dia) x 12.00	512	(12.00)	1536.00
The Lumber Cypress	(1.50 ~ 3.00) x 12.00	50	(1.50)	1110.00
The Lumber Pine	(0.80 ~ 1.00) x 12.00	928	(6.00)	992.00
The Lumber Hokkai pine	(1.00 ~ 2.00) x 12.00	258	(6.20)	692.40
The Lumber hemlock spruce	(1.00 ~ 2.00) x 12.00	680	(15.00)	1736.00
The Lumber zelcowa tree	(0.40 ~ 0.80) x 12.00	212	(318.00)	3752.40
The Lumber oak tree	(0.80 ~ 1.50) x 12.00	15	(35.00)	472.00
The Lumber american pine	1.00 x 20.00	2	(4.00)	472.00
The Lumber sioji	1.00 x 12.00	5	(15.00)	1770.00
Pine tree	0.05 x 0.6 x 6.60	850	(20.19)	2382.42
Stopper	0.15 x 0.90 x 12.00	100	(6.72)	792.96



25	(1371)	43878		good		Bomori-Haboda	The Department of Transportation
12	(264)	31152				-to Ferry-boat	
3250	(64.35)	7593.30	2		PF 17,700.00	Repairs and Conservation	
425	(113.47)	1589.46	1				
280	(110.81)	1275.58					
250	(112.88)	519.84					
225	(81.25)	993.50	1				
10	(1100)	118.00					
290	(118.37)	2169.66	1		PF 2500.00	for packing	20
450	(129.70)	3504.60	1				
350	(133.00)	4130.00	1				
1000	(138.08)	6253.44	2			Bomori-Haboda	The Department of Transportation
200	(119.60)	2076.80	1			Ferry-boat	
1600	(122.48)	9962.88	3			S.S. Wintaha	Training School
30	(3.86)	438.48	1			S.S. Sinvira	
385	(116.2)	1993.52	4			AOG 4	U.S.M.C.
90	(13.67)	669.06	0.5		PF 11,800	S.S. Tonogawa	C.O.M.C.
228	(130.78)	3632.04	1			S.S. Akita	S.S. Kansas Co.
110	(109.1)	1051.20	1			S.S. Isobayo	Training School
100	(1100)	492.00	1			V 204	C.O.M.C.
750	(112.00)	1699.20	1			S.S. Nanse	
400	(117.92)	2115.68				S.S. Tatutama	
60	(12.00)	309.00				S.S. Daiba	
70	(11.8)	198.24	1.5			S.S. Anatabi	Training School
140	(118.0)	1156.80					
372	(120.0)	1524.00	33		PF 55,000		The Department of Transportation - Station Training School U.S.M.C. C.O.M.C.
50	(115.0)	1190.00	3				
928	(102.0)	9465.60	16		PF 75,200	Conservation and Packing	
258	(602.00)	6923.60	14				
580	(1509.00)	1730.60	39			Bomori, Haboda	The Department of Transportation
212	(318.00)	3752.80	11			Ferry-boat and Damaged ship	12 - Station Training School U.S.M.C. C.O.M.C. and other.
15	(35.00)	4130.00					
2	(4.00)	472.00	1		472.00		
5	(15.00)	1770.00				AOG 2	2 P.D.M.HYGE 2499
850	(20.19)	2382.42	1				36 P.D.M.HYGE 3143
100	(6.72)	792.96	0.5				



3)	Coal	small	ton	27	27 <sup>ton</sup>	3
	Coke	lump	.	20	20'	2
	Coalite	s. lump	.	80	80'	8
	Charcoal		bbl	1.051	16 <sup>ton</sup>	2



			Actual quantity of materials used	Name of works	Unit	Name
27 ton	3	good	7000 kg	The materials are used as follows:		
20'	2		1500'	1. Railway for use between Amori and Nahodato.	3 ships	The Department of Transportation.
80'	3		300			
16'	2		18000'	2. Small type of passenger boat.	1 boat	Kansai Steam-ship Co. Toho Steam-ship Co.
				3. Ship Repairing	50,000 (monthly)	The Allied Forces and others.
				4. Salt producing machine.	4 sets	Kitahama Salt Manufacturing Association The Salt Manufacturing Association.
				5. Road roller.	10 sets	The Institute of our own - -re Recovery.
				6. Tractor.	40 sets	Hokkaido Governmental Office.
				7. Refrigerators	350 sets	The Allied Forces.

Note:

These materials are not sufficient to complete above mentioned works, and in fact we are facing the difficulty how to fill up our insufficient materials at present.



Note of Opinions  
On Lumber

Kobe Ship  
Mitsubishi

The lumber supply condition of this plant is not an exception to the rule. The stock on hand is extremely meager; the lumber rationing by the Department is depended on mainly due to the difficulty on the spot as well as that of it is even harder to secure lumber on the open market.

On the other hand, the consumption of the lumber is even increasing to date. The company is now having much difficulty in securing necessary lumber for the "Mikasa" and "Hekodate," and other steamers closely related with the Occupation Forces, to securing lumber.

The whole of the stock is already scheduled for the use of emergency work. The kinds and dimensions of the lumber on stock would be unsatisfactory for bought for the use of ship-constructions.

Schedule of usage of lumber on hand

Stock on hand	Usage	Quantity needed
Pulp-wood 4,500 koku	Spikes connecting liver	5,000 koku
	Repairing ships	6,000 koku
	Work for the Rising Sun	1,000 koku
Finished wood 1,500 koku	Up-keep work	300 koku



Note of Opinions  
On Lumber

Kobe Shipyard & Engine Works  
Mitsubishi Heavy Industries Ltd.

this plant is not an exception to the rule in the general public.

meager; the lumber rationing by the Department of Agriculture and Forestry cannot  
difficulty on the spot as well as that of transportation; furthermore, it is growing  
open market.

tion of the lumber is even increasing due to the brisk activities in the plant.  
difficulty in securing necessary lumber for repairing connecting livers between Amori  
closely related with the Occupation Forces. The plant is now giving sole attention

ready scheduled for the use of emergency works. Furthermore, it is believed that  
lumber on stock would be unsatisfactory for general use, because it was originally  
actions.

Schedule of usage of lumber on hand;

Usage	Quantity needed	Remarks
repairing connecting liver	5,000 koku	Utmost effort is being made to obtain lumber lacking
Repairing ships	6,000 koku	
work for the Rising Sun	1,000 koku	
Up-keep work	300 koku	



Kobe Maritime Bureau  
Kobe, Honshu

Kobe, 24 January 1947

The Headquarters 5th Army,  
Yokohama, Honshu

Re: Submitting my opinion on the investigation  
paper of materials relative to the Kobe  
Shipyard and Engine Works, Mitsubishi  
Heavy Industries, Ltd.

Dear Sir:

Kobe Shipyard and Engine Works was designated for custody and control for possible reparations on September 2, 1945. For this, the petition for removal of the shipyard from the reparation list was already submitted to GHQ.

At present, under the control of USMC (U.S. Maritime Commission) the shipyard is pressed with ship reparings for American vessels, and also engaging various works continuously for the Allied Forces, the shipyard is making every effort to promote works with utmost care.

In addition the shipyard undertakes Railway Ferries and electric power plants, and manufacture of various machineries which are absolutely necessary for rehabilitation of civilian industries.

The materials and equipments possessed by the shipyard are not sufficient to complete the above mentioned works, and also it is very difficult to secure any kinds of new materials at present because of scarcity in productive materials in Japan. Therefore, we consider that this shipyard has no surplus materials to offer.

We respectfully beg your consideration to the judgement on this particular problem of material shortage which this shipyard has.

Respectfully yours,

By

*S. Okada*  
S. Okada

Director of Maritime Bureau,  
Kobe.



Note of Opinions of the Company's Production and  
Material Requirements against the Inventory of factory  
equipments prepared by The U.S. 8th Army.

Kobe Shipyard and Engine Works,  
Mitsubishi Heavy Industries, Ltd.



Note of Opinions of the Company's Production and Material Requirements  
 against the Inventory of factory equipments prepared by The U.S. 8th Army  
 (or Nihon Kensetsu Kogyo Tosei Kumiai)

**1. Present condition of the Shipyard:**

Area of the compound:		130,000 tsubo
Floor space of factories:		43,000 tsubo
Berths:		5 stands
Docks-Floating Docks:		7,500 tons 1 stand
		12,000 tons 1 stand
		16,000 tons 1 stand
Dry Dock:		10,000 tons 1 stand
Machine Tools and installed machines:	about	3,500 stands
No. of Employees (Daily attendance)		
Office hands:	about	1,000
Working staff: (including outside labourers)	about	5,000
		<hr/>
Total:	about	7,000
		<hr/>

In November, 1945 soon after the end of the war, this shipyard was granted a conversion permit for civilian products by The U.S. 1 corps, and continued to manufacture them on a large scale. In August 1946, the shipyard was designated as one of the reparation factories and was ordered to keep and supervise the factory equipment in safety. In spite of this however, the shipyard has been able to continue its manufacturing activities as usual with all its might under the kind permission of the Allied Forces.



In reference to the shipbuilding, the shipyard has newly completed of 270 ton-type trawlers since the cessation of the war; regarding the ship repairing, the company has accomplished the repairing work of Japanese civilian ships, and many ships belonging to the Occupation Forces by their order. The gross tonnage of the ships repaired for the Occupation Forces during the year of 1946, reaches about 300,000 tons and the number of the boats taken care of the same period is 77 vessels. Moreover, this shipyard had the pleasure of constructing a large oil base for the Allied Forces in the spacious ground of the Rising Sun Oil Company in Kobe.

Concerning the land machineries, the shipyard has manufactured and is still making by exerting itself to the utmost dynamos, large scale salt-producing equipment, grain-grinding machinery, farming machinery, and refrigerators for use of the members of The Advanced Forces. The manufacturing efficiency has recently improved to a large extent, and the ratio of the workers' attendance is about 125%. Nevertheless, in order to accomplish the work on hand by the time specified, it is necessary for the company to newly employ the working force of some 2,000 people.

### III. General description of work on hand

A larger part of the work now on hand is consist of orders from the Occupation Forces, and the balance of the work the company has on hand is reported to the U.S. Military authorities and the permission is duly received.

#### a. New Shipbuilding

The new ships, the construction of which shall be finished during this year, are as follows:

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



<u>Clients</u>	<u>Type of the ships</u>	<u>Gross tonnage</u>	<u>Horse power</u>	<u>Quantity</u>
Transportation Department	Aomori-Fuzan Ferry boats	3,700 G.T.	4,000 H.P.	3 Vessels
Tokai Kisen K.K.	Small size passenger boat	300 G.T.	500 H.P.	1 vessel
Kansai Kisen K.K.	-ditto-	1,000 G.T.	2,000 H.P.	2 vessels
Mitsubishi Kobe Shipyard	Salvage boat	250 G.T.	1,000 H.P.	1 vessel.

b. Ships under repair

There is a great deal of repairing and salvaging work. There <sup>are</sup> great many ships already repaired and those yet to be repaired. Some of them were damaged by air-raids and some others sunk by fires. These ships belong to Uneikai to be used for transporting repatriators and to general ship owners. Besides, there are many ships belonging to the Occupation Forces brought in this shipyard for repairing. In view of the important nature of the boats belonging to U.S.M.C. we are making our especial efforts in order to accomplish the work by the time specified.

c. Land Machineries

At the machinery department of this shipyard, the company has been in the habit of making not only the machinery to be used on board new ships built, but also those for general civilian use from olden times. And the machinery of the latter category occupies about 50% of the entire machinery production of this shipyard. Those machinery which are under production at present, are as follows:

1. Water mill for power-generation(10,000-15,000 K.W.).....2



2. Land boilers (10-45 tons).....	4
3. Water tube boilers for heaters of the Occupation Forces .....	5
4. Blowers (70 - 3,500 K.W.) .....	4
5. Tobacco rolling machines for use of the monopoly bureau .....	30
6. Matches manufacturing machine .....	50
7. Farming tractors (5 tons) for Hokkaido Government Office .....	40
8. Road-rollers (8 tons) for the Reconstruction Bureau .....	20
9. Wood-work machinery (with 48 inches saws & others) .....	50
10. Vacuum-type salt producing machinery .....	4
11. Refrigerators for domestic use of the Occupation Forces .....	350
12. Compressors for cold storage .....	50

III. Materials:

As has been described in the preceding paragraph, the amount of work on hand at present, is already something that could not be accomplished during this year. However, the materials rationed to this shipyard is hopelessly meagre. Tendencies in recent months are that permission to build new ships is granted to only those manufacturers who are in possession of sufficient materials. In view of the above, the company is making shifts in some way or other by allocating the materials on hand which is not at all large to various sections, and has been obliged to make its utmost efforts in securing lacking materials on the open market disregarding the exorbitantly high prices. Thus, the company has been able to get along with its daily works somehow

Main materials needed for important work are as follows:

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



Materials needed for a Aomori-Hakodate ferry-boat (3,700 gross tons - for passenger cars and about 1,000 passengers)

Mild steel .....	3,400 kt.
Pig iron .....	40 kt.
Wood .....	10,000 koku
Electric wire .....	300 kt.
Cement .....	80 kt.
Coal .....	1,000 kt.
Cokes .....	200 kt.
Oil & Paint .....	500 kt.
Cotton & Hemp .....	90 kt.
Wire, Rod, Sheet iron, Nail, etc. ....	300 kt.

Materials required for a set of vacuumtype salt producing machinery, producing 300 KT per day.

Mild steel .....	380 tons
Special steel .....	12 tons
Pig iron .....	270 tons
Copper .....	103 tons
Coal .....	215 tons
Cokes .....	250 tons



Moreover, the most of the repairing work ordered by the Occupation Forces as a rule, must be done within an exceptionally short period of time, and the delivery date must strictly be enforced. Under the circumstances, it is necessary to have sufficient materials ready on hand always.

IV. Conclusion

As has been explained in the foregoing paragraphs, and also in the separate explanatory report, all the materials the company has on hand, are definitely appropriated to all the indispensable work permitted by the U.S. Military authorities. Excepting a negligible amount of spare materials, there is practically none which can be contributed. Furthermore, in view of the fact that all the factories of the shipyard are in full operation, and the factories are working overtime. Accordingly, it is well-nigh impossible for the shipyard to dismantle some installed materials. It is desired earnestly therefore that the real situation of the shipyard be properly understood by the military authorities concerned.



*F. H. Byrne*

F. H. Byrne, Commander U.S.M.C.  
United States Maritime Commission

*S. Fujii*

S. Fujii  
General Manager of Kobe Shipyard  
& Engine Works  
Mitsubishi Heavy Industries, Ltd.

*S. Okada*

S. Okada,  
Director of Maritime Bureau

*Hiroto Tanaka*

H. Tanaka  
Chief of Hyogo Liaison Office



MGP 37

NAME OF PLANT, LABORATORY, OR ARSENAL:

Kobe Shipyard and Engine Works

LOCATION: Mitsubishi Heavy Industries, Ltd.

3-chome, Wadasaki-cho, Hyogo-ku, Kobe, Hyogo

SIGNATURE OF OWNER OR CUSTODIAN

*[Handwritten Signature]*

REPARATIONS PLANTS MATERIALS

General Contractors Association of Japan  
Hyogo Prefecture Branch

*[Handwritten Signature: Hiroto Panaka]*

MATERIAL (NOT INSTALLED)

*[Handwritten Signature: Tsubuda Goro]*  
*[Handwritten Signature: Toshiro Koshiga]*

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DATE:

Steel Plate (thin)

SIZE	WEIGHT	UNIT	QUANTITY	TOTAL WEIGHT	REMARKS	NEW	QUANTITY	TOTAL WEIGHT	
0.5x915x1,830	6.57 kg/m <sup>2</sup>	pc.	50	329	15 <sup>t</sup> x4	new	272	(1,787)	
0.8x " x "	10.50 "	"	110	1,155		"	212	(2,228)	
0.9x " x "	11.80 "	"	190	2,242		"	190	(2,242)	
1.0x " x "	13.10 "	"	561	7,343		"	561	(7,343)	
1.2x " x "	15.80 "	"	372	5,878		"	372	(5,878)	
" x 1,250 x 2,500	29.40 "	"	11	323		"	11	(323)	
1.6x 915 x 1,830	21.00 "	"	2,009	42,189		20 <sup>t</sup> x2	"	2,009	(42,189)
" x 1,220 x 2,440	37.40 "	"	145	5,423			"	145	(5,423)
2.0x 915 x 1,830	26.30 "	"	1,778	46,754		15 <sup>t</sup> x2	"	1,778	(46,754)
" x 1,220 x 2,440	46.70 "	"	347	16,232			"	347	(16,232)
2.3x 890 x 1,700	27.30 "	"	100	2,730	15 <sup>t</sup> x6	"	100	(2,730)	
" x 915 x 1,830	30.20 "	"	2,896	87,515		"	2,896	(87,515)	
" x 1,220 x 2,440	53.70 "	"	1,943	104,907	16 <sup>t</sup> x7	"	1,943	(104,907)	
" x 1,500 x 3,000	81.20 "	"	51	4,141		"	51	(4,141)	
2.6x 915 x 1,830	34.20 "	"	35	1,197	15 <sup>t</sup> x0.5	"	35	(1,197)	
" x 1,000 x 1,750	35.70 "	"	42	1,499		"	42	(1,499)	
" x " x 4,200	85.70 "	"	43	3,685	"	43	(3,685)		
" x 1,220 x 2,440	60.80 "	"	350	21,280	"	350	(21,280)		

- BIBAI MITSUBISHI MINING INDUSTRY WORKS.  
7000<sup>kw</sup> TURBINE PLANT 1 SET
- NIPPON HASSODEN.  
170<sup>t</sup>/h MITSUBISHI SECTIONAL BOILER 1
- TRADE UNION.  
1/2 HP REFRIGERATORS FOR ALLIED FORCES.
- AKAHO NISHIHAMA UNION OF SALT PRODUCING INDUSTRIES.  
30,000<sup>tons</sup> PER YEAR VACUUM SALT PRODUCING EQUIPMENT 1 SET

775013

REF ID: A66513



• x 1,220 x 2,440, 53.70	•	1,943	104,501					4. AKAHO NISHIHAMA UNION OF SALT PRODUCING INDUSTRIES.
• x 1,500 x 3,000, 81.20	•	51	4,141					SALT PRODUCING EQUIPMENT 1 SET.
26 x 915 x 1,830, 34.20	•	35	1,197	15 <sup>t</sup> x 0.5		50	(1,710)	
• x 1,220 x 2,440, 53.70	•	43	3,483			43	(3,483)	
• x 1,220 x 2,440, 60.80	•	350	21,280			350	(21,280)	
29 x 915 x 610, 12.70	•	6	76	20 <sup>t</sup> x 2		6	(76)	5. TAKIHAMA UNION OF SALT PRODUCING INDUSTRIES.
• x 1,830, 38.10	•	21	800	15 <sup>t</sup> x 1		21	(800)	12,000 <sup>tons</sup> PER YEAR VACUUM SALT PRODUCING EQUIPMENT 1 SET.
• x 1,220 x 2,440, 67.80	•	344	23,323			344	(23,499)	
• x 1,500 x 3,000, 102.00	•	40	4,080			40	(4,080)	
<u>Steel Plate (moderate)</u>								
32 x 520 x 3,050, 39.8	pc.	92	3,442 <sup>kgs.</sup>		new	92	(3,442 <sup>kgs.</sup> )	6. OSAKA SALT PRODUCING CO.
• x 670 x , 51.3	•	74	3,796	15 <sup>t</sup> x 0.5		74	(3,796)	8 <sup>tons</sup> PER DAY VACUUM SALT PRODUCING EQUIPMENT 1 SET.
• x 1,000 x 5,000, 126.0	•	1	126			1	(126)	
• x 1,200 x 4,000, 121.0	•	15	1,815	20 <sup>t</sup> x 1		15	(1,815)	
• x 1,220 x 2,440, 74.8	•	651	48,497	15 <sup>t</sup> x 2		856	(64,031)	7. HOKKAIDO GOVERNMENTAL OFFICE.
• x 1,250 x 1,800, 56.5	•	111	6,272			111	(6,272)	
• x 1,500 x 3,000, 113.0	•	34	3,842	15 <sup>t</sup> x 1		34	(3,842)	5 <sup>ton</sup> TRACTOR WITH DIESEL ENGINE 100.
35 x 1,500 x , 124.0	•	32	3,968			32	(3,968)	
40 x 915 x 1,830, 52.6	•	16	842			16	(842)	
• x 1,220 x 2,440, 93.5	•	11	1,029			11	(1,029)	8. THE INSTITUTE OF WAR DAMAGE RECOVERY.
• x 1,400 x 3,000, 152.0	•	30	3,960	20 <sup>t</sup> x 1		30	(3,960)	
• x 1,500 x , 141.0	•	110	15,845			67	(15,845)	8 TONS' ROAD ROLLER WITH DIESEL ENGINE.
45 x 915 x 1,830, 531.0	•	1,545	81,310	15 <sup>t</sup> x 6		1,545	(91,310)	
• x 1,220 x 2,440, 105.0	•	54	18,080	20 <sup>t</sup> x 2		54	(18,080)	
• x 1,500 x 3,000, 169.0	•	402	37,510	15 <sup>t</sup> x 0.5		402	(57,510)	

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5.0 x 1,220 x 2,440	1170 kg/pc	pc	19	2,223	20" x 5	new	19 (2,223)
" x " x 4,880	2360	"	30	7,020			30 (7,020)
" x 1,500 x 3,050	1800	"	521	91,236			521 (91,236)
<u>Steel Plate (thick)</u>							
6.0 x 915 x 1,830	77.0 kg/pc	pc	57	4,493	15" x 12	new	57 (4,493)
" x 1,000 x 2,000	740	"	94	1,034			94 (1,034)
" x 1,220 x 2,440	160.0	"	2	280			2 (280)
" x 1,350 x 2,600	1650	"	15	2,475	20" x 1	new	15 (2,475)
" x 1,500 x 3,050	215.0	"	784	168,621			784 (168,621)
7.0 x 1,500 x 3,050	251.0	"	19	4,769			19 (4,769)
8.0 x 915 x 1,830	105.0	"	12	1,260	15" x 1	new	12 (1,260)
" x 1,100 x 3,700	255.0	"	1	255			1 (255)
" x 1,200 x 3,800	286.0	"	1	286			1 (286)
" x 1,220 x 2,440	187.0	"	65	12,155	15" x 6	new	65 (12,155)
" x 1,500 x 3,050	287.0	"	294	84,378			294 (84,378)
9.0 x 915 x 1,830	118.0	"	26	3,138			26 (3,138)
" x 1,500 x 3,050	323.0	"	259	83,657	20" x 4	new	259 (83,657)
10 x 915 x 1,830	131.0	"	72	9,430			72 (9,430)
" x 1,500 x 3,050	359.0	"	76	27,284			76 (27,284)
" x 1,220 x 2,440	253.0	"	28	6,524	15" x 1	new	28 (6,524)
11 x 1,220 x 2,440	257.0	"	9	2,313			9 (2,313)
" x 1,500 x 3,050	395.0	"	1	395			1 (395)
12 x 915 x 1,830	158.0	"	48	7,584	20" x 3	new	48 (7,584)
" x 1,200 x 1,420	161.0	"	7	1,127			7 (1,127)
" x 1,500 x 3,050	111.0	"	116	49,996			116 (49,996)

- 9 THE CENTRAL TABACCO MONO-POLY BUREAU.  
CHUKEN TYPE CIGARETTES ROLLING MACHINE, 50.
- 10 KÖBE SALARIED MENS' UNION ETC.  
40 INCHS' BAND SAWING MACHINE, 65.
- 11 TAKIHAMA UNION OF SALT PRODUCING INDUSTRIES.  
GIRDER FOR BOILER 1 SET.  
GIRDER FOR COAL ECONOMIZER 1 SET, SUPPORTING FRAME OF SALT COLLECTING VESSEL 1SET.
- 12 AKAHO NISHIHAMA UNION OF SALT PRODUCING INDUSTRIES.  
SUPPORTING FRAMES OF SALT COLLECTING VESSEL 1SET.
- 13 NIPPON MATCH CONTROLLING

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11 x 1,220 x 2,440,	257.0	9	2,313		9	(2,313')	DUSTRIES.
• x 1,500 x 3,050,	395.1	1	395		6	(2,370')	SUPPORTING FRAMES OF SALT
12 x 915 x 1,830,	158.0	48	7,574	20" x 3	12	(7,574')	
• x 1,220 x 1,420,	207	9	1,863		9	(1,863')	
• x 1,500 x 3,050,	431.0	116	49,996		216	(99,096')	13 NIPPON MATCH CONTROLLING
14 x 1,200 x 6,000,	678.0	28	18,984	20" x 1	28	(18,984')	UNION.
• x 1,400 x 4,000,	528.0	8	4,224	20" x 3	8	(4,224')	MATCH STICK ARRANGING
• x 1,500 x 3,050,	503.0	114	57,342		124	(62,372')	MACHINE 50
16 x 1,500 x 3,050,	565.0	4	2,260	20" x 2	4	(2,260')	14 OTHERS.
• x 1,800 x 4,000,	804.0	8	7,232		8	(7,232')	REPAIRING AND MISCELLANIOUS
• x 1,220 x 2,440,	376.0	12	4,488				WORKS OF STEAM TURBINES,
• x 1,500 x 3,050,	575.1	46	26,450				WATER TURBINES, BOILERS &
<i>Angle (unequal deg.)</i>							
50° x 35° x 4° x 9,000,	23.2	228	5,270	15" x 1	228	(5,270')	ETC..
65 x 50 x 5 x	39.2	261	10,231		261	(10,231')	
70 x 50 x 6 x 12,000,	71.0	4	284		4	(284')	15 PERSONAL USE.
75 x 50 x 6 x 7,000,	317	54	2,144		54	(2,144')	260 T TYPE 550" LENTZ
• x x x x 6,000,	340	36	1,224		36	(1,224')	SALVAGE-BOAT 1 SHIP.
90 x 50 x 6 x 11,000,	753	12	904		12	(904')	
90 x 75 x 9 x 10,000,	110.0	9	990	15" x 2	9	(990')	
100 x 75 x 7 x 3,000,	280	186	5,208		186	(5,208')	
• x 4,000,	373	25	933		25	(933')	
• x 5,000,	455	65	3,028		65	(3,028')	
• x 7,600,	710	2	142		2	(142')	

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100x75x7x9,000, 83.9 <sup>kg</sup>	pc	104	8,726 <sup>kg</sup>	15 <sup>2</sup> x1	new	104 <sup>pc</sup> (8,726 <sup>kg</sup> )
" x 11,000, 103.0	"	44	4,532			584 " (4,9152 " )
100x75x10x4,000, 520	"	31	1,612			31 " (1,612 " )
" x 8,000, 104.8	"	2	204			2 " (204 " )
" x 11,000, 103.0	"	72	10,296	72 " (10,296 " )		
100x75x12x12,400, 191.0	"	30	5,730	15 <sup>2</sup> x1		30 " (5,730 " )
100x75x13x12,000, 198.0	"	48	9,504		48 " (9,504 " )	
125x75x7x9,000, 96.3	"	79	7,607	20 <sup>2</sup> x1 15 <sup>2</sup> x2		79 " (7,607 " )
" x 11,000, 118	"	232	27,376		232 " (27,376 " )	
125x75x9x9,000, 122	"	54	6,588	20 <sup>2</sup> x1 15 <sup>2</sup> x2		54 " (6,588 " )
" x 11,000, 149	"	74	11,026		74 " (11,026 " )	
125x75x10x7,000, 104	"	41	4,264	20 <sup>2</sup> x1 15 <sup>2</sup> x1		41 " (4,264 " )
" x 9,000, 134	"	230	30,820		230 " (30,820 " )	
" x 10,000, 167	"	129	17,221	24 <sup>2</sup> x1		129 " (17,221 " )
" x 11,000, 164	"	184	30,176	15 <sup>2</sup> x3		184 " (30,176 " )
" x 12,000, 171	"	146	26,134	20 <sup>2</sup> x1 15 <sup>2</sup> x3		146 " (26,134 " )
125x75x13x9,000, 172	"	53	9,116	15 <sup>2</sup> x2		53 " (9,116 " )
" x 11,000, 210	"	21	6,410		21 " (6,410 " )	
125x90x13x12,000, 267	"	27	6,667	15 <sup>2</sup> x2		27 " (6,667 " )
65x50x7x9,000, 53	"	11	583		11 " (583 " )	
75x65x6x - , 57	"	27	1,539	20 <sup>2</sup> x1		27 " (1,539 " )
90x75x9x - , 99	"	20	19,800		20 " (19,800 " )	
" x 11,000, 121	"	27	3,267			27 " (3,267 " )
100x75x13x6,000, 107	"	4	436			4 " (436 " )

#### 16. TRAFFIC DEPARTMENT

3,700 T TYPE RAILWAY FERRY-  
BOAT WITH 5,400<sup>HP</sup> TURBINE  
3 SHIPS.

#### 17. TOKAI STEAM SHIP CO.

330 T TYPE PASSENGER-  
BOAT WITH 550<sup>HP</sup> DIESEL ENGINE,  
1 SHIP.

#### 18. KANSAI STEAM SHIP CO.

1,000 T TYPE PASSENGER-  
BOAT WITH 980<sup>HP</sup> DIESEL ENGINE,  
1 SHIP.

#### 19. ALLIED FORCES AND ETC.

SHIP REPAIRING 309 SHIPS



75 x 65 x 6 x . . .	57	27	1,539		27	(1,539)
90 x 75 x 9 x . . .	39	28	12,804	15 x 8	28	(12,804)
100 x 75 x 13 x 6,000	108	30	6,270		30	(6,270)
. . . x 7,000	116	10	4,160		10	(4,160)
. . . x 10,000	165	21	3,445		21	(3,445)
125 x 75 x 13 x 6,000	108	9	972		9	(972)
. . . x 8,500	142	3	484		3	(484)
. . . x 12,000	209	30	6,270		30	(6,270)
125 x 90 x 9 x 12,000	175	83	14,525		83	(14,525)
125 x 90 x 10 x 7,700	124	12	1,488		12	(1,488)
. . . x 11,000	177	15	2,655		15	(2,655)
125 x 90 x 13 x 6,000	124	4	496		4	(496)
. . . x 6,300	150	4	520	20 x 7 15 x 2	4	(520)
. . . x 9,000	185	3	555		3	(555)
. . . x 11,000	227	15	4,086		15	(4,086)

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Angle (equal leg)

Size	Angle	Weight	Quantity	Weight	Notes	Weight	Weight
70 x 70 x 3x 5500	62°	1087	1087	6737	NEW	1087	(6737)
" 6000	67°	276	276	1849		"	276
30 x 30 x 5x 5500	11.9°	306	306	3690	NEW	306	(3690)
" 6000	17.9°	1	1	13		"	1
35 x 35 x 3x 5500	8.8°	95	95	836	20 x 1	95	(836)
" 6000	9.6°	73	73	701		"	73
35 x 35 x 5x 5500	14.0°	139	139	1946	NEW	139	(1946)
" 6000	15.3°	1	1	15		"	1
40 x 40 x 3x 4300	7.9°	81	81	648	NEW	81	(648)
" 6000	11.0°	581	581	6328		"	581
40 x 40 x 5x 3600	10.6°	786	786	8332	15 x 1	786	(8332)
" 5500	16.2°	673	673	10093		"	673
" 6000	17.7°	5	5	89	"	5	(89)
45 x 45 x 4x 3600	9.9°	151	151	1495	20 x 1	151	(1495)
" 4900	13.4°	34	34	456		"	34
" 5500	15.°	320	320	4800	"	320	(4800)
45 x 45 x 6x 5500	24.0°	146	146	3504	NEW	146	(3504)
50 x 50 x 4x 4000	12°	377	377	4044		"	377
" 8300	25.4°	18	18	457	"	18	(457)
" 9000	27.5°	209	209	5768	15 x 1	209	(5768)
" 11.000	33.7°	76	76	2561		"	76
" 12000	35.7°	17	17	674	"	17	(674)

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"	0900	25.4	"	18	457		
"	9000	275	"	209	5948	15 x 1	
"	11000	337	"	70	2181		
"	12000	367	"	11			
50 x 50 x 6 x 6000	266		"	441	11731	20 x 1	95 (1996)
"	7000	310	"	242	7502		59 (1829)
"	8000	354	"	427	15115	15 x 1	235 (8319)
"	9000	399	"	1034	41290	20 x 3	1034 (41290)
"	10000	443	"	227	10050		227 (10050)
"	11000	487	"	927	45347	15 x 3	732 (35851)
"	12000	532	"	2338	124352		2192 (116618)
"	8 x 9000	52	"	9	468		
60 x 60 x 5 x 9000	41		"	3	123	15 x 1	
"	7 x 6200	385	"	1	39		
"	9000	56	"	76	4244		76 (4000)
"	10000	62	"	1	62		1 (62)
65 x 65 x 6 x 5500	325		"	17	545	15 x 1	17 (545)
"	5000	30	"	14	420		14 (420)
"	6000	355	"	158	5592		158 (5592)
"	7000	414	"	105	4346		105 (4346)
"	7700	46	"	113	5198		113 (5198)
"	8000	473	"	138	6517	15 x 1	138 (6517)
"	8700	51	"	4	204		4 (204)

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65x 65 x 6x 9000	532	641	33437	15x2	641	( 33437 )
" 10000	591	202	16722	15x1	202	( 16722 )
" 11000	65	533	34645	15x2	533	( 34645 )
" 12000	709	877	61767	15x4	877	( 61767 )
65x 65 x 8x 4000	306	21	643		21	( 643 )
" 7000	536	36	1930		36	( 1930 )
" 9000	689	227	15643	15x3	227	( 15643 )
" 10000	766	274	20988		274	( 20988 )
" 11000	843	93	7840		93	( 7840 )
" 12000	919	323	29685	15x2	323	( 29685 )
70x 70 x 8x 11000	810	73	6643		73	( 6643 )
75x 75 x 6x 9000	617	258	15774	15x2	258	( 15774 )
" 10000	69	90	6210		90	( 6210 )
" 11000	754	146	11004	15x2	146	( 11004 )
" 12000	82	56	4592		56	( 4592 )
" 9x 7000	697	26	1812		26	( 1812 )
75x 75 x 9x 7700		75	5725		75	( 5725 )
" 8000	727	235	18744		235	( 18744 )
" 9000	826	291	24076		291	( 24076 )
" 10000	800	40	4000		40	( 4000 )
" 11000	1820	462	50930	15x4	462	( 50930 )
" 12000	1280	369	44280	15x5	369	( 44280 )
" 6x 5600	38	1	38		1	( 38 )
" 6000	41	5	205		5	( 205 )
" 7700	53	36	1800	15x1	36	( 1800 )
" 12x 6000	79	21	1638		21	( 1638 )

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6x 5600	38						
6000	91						
7500	125						
12x 6000	78	21	1638		21	( 1638 )	
7700	104	2	200		2	( 200 )	
8000	104	73	7575		73	( 7575 )	
9000	117	337	39727	15x3	337	( 39461 )	
10000	130	9	1170		9	( 1170 )	
11000	143	625	89375	16x6	623	( 89089 )	
12000	156	40	6240		40	( 6240 )	
90x 90 x 7x 10,000	46	43	4128	5x1	43	( 4128 )	
8200		5	395		5	( 395 )	
90x 90 x 10x 8000	106	123	13038	15x1	123	( 13038 )	
9000	146	400	58400		400	( 58400 )	
12000	160	8	1280	15x9	8	( 1280 )	
90x 90 x 13x 6000	102	51	5202		51	( 5202 )	
8000	136	259	35224	15x3	259	( 35224 )	
10000	170	473	60586	15x6	356	( 60120 )	
11000	187	527	98629	15x7	527	( 98629 )	
12000	204	453	92402	15x7	393	( 80172 )	
100x 100 x 10x 5000	745	5	373		5	( 373 )	
8500	122	9	1098	15x7			
9000	134	15	2010				
11000	164	696	104304		699	( 114636 )	
12000	179	73	13067	15x1	73	( 13067 )	

RECALCULATED BY: J. J. ... 1175013