

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

7 MAY 1951

Date of writing Report 24<sup>th</sup> January 1951 When handed in at Local Office 19 Received at London Office 7 MAY 1951

No. in Survey held at Tamano Japan Date, First Survey 6-6-50 Last Survey 12-12-1950  
 eg. Book. (No. of Visits       )

on the Steel Single Screw Motor Vessel "AZUMASAN MARU" Tons { Gross 6993.45  
 Net 5047.67

Built at Tamano By whom built Mitsui Shipbuilding & Engineering Co., Ltd. Tamano Works Yard No. 556 When built Dec. 1950

Owners Mitsui Senpaku K.K. Port belonging to Tokyo

Installation fitted by Mitsui Shipbuilding & Engineering Co., Ltd. Tamano Works When fitted Dec. 1950

Is vessel equipped for carrying Petroleum in bulk — Is vessel equipped with D.F. yes E.S.D. yes Gy. C. yes Sub. Sig. — Radar yes

Plans, have they been submitted and approved yes System of Distribution Two wire D.C. Voltage of Lighting 220

Heating 220 Power 220 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency —

Prime Movers, has the governing been found as per Rule when full load is thrown on and off yes Are turbine emergency governors fitted

with a trip switch — Generators, are they compound wound yes, and level compounded under working conditions yes,

if not compound wound state distance between generators — and from switchboard —. Are the generators arranged to run

in parallel yes, are shunt field regulators provided yes. Is the compound winding connected to the negative or positive pole

Negative. Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing yes. Have certificates of

test for machines under 100 kw. been supplied yes and the results found as per Rule yes.

Position of Generators Port side in Engine room platform,

is the ventilation in way of generators satisfactory yes are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil yes. Switchboards, where are main switchboards placed Fore end of Engine Room,

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

steam and oil yes, what insulation is used for the panels Synthetic material, if of synthetic insulating

material is it an Approved Type yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as

per Rule —. Is the construction as per Rule, including locking of screws and nuts yes. Description of Main Switchgear

for each generator and arrangement of equaliser switches Main Switch gear has a 3 pole air circuit breaker with overload (positive &

negative poles), reverse-current trips (positive pole), and a single pole equalizer switch, and has a 3 pole disconnecting

knife switch.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Switch gears have 2 poles air circuit breaker with overload

trip for outgoing circuit rated above 300 amperes and 2 poles linked switch with a fuse on each pole for outgoing

circuit rated up to 300 amperes.

are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes. Instruments on main switchboard 9

ammeters 2 voltmeters — synchronising devices. For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection yes. Earth Testing, state means provided Earth indicating

system is adopted 2 poles of the metal-filament type and a ohmmeter.

switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yes (Restricted)

make of fuses Mitsui Shipbuilding Co., Ltd., are all fuses labelled yes. If circuit breakers are provided for the generators, at what

overload do they operate 150 %, and at what current do the reversed current protective devices operate 150 %

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule yes.

Cables, are they insulated and protected as per Rule yes, if otherwise than as per Rule are they of an Approved Type —

the maximum fall of pressure between bus bars and any point under maximum load Under 5 volts, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets yes. Are all paper insulated and varnished cambric insulated

cables sealed at the ends yes. Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil,

high temperatures or risk of mechanical damage yes, are any cables laid under machines or floorplates NO, if so, are they

equally protected —. Are cables in machinery spaces, galleys, laundries, etc., lead covered yes or run in conduit —

of the "HR" type —. State how the cables are supported or protected Cables are run and securely cramped

on strong steel tray, and are protected by steel cover through cargo spaces.

all lead sheaths, armouring and conduits effectually bonded and earthed yes. Are all cables passing through decks and watertight

heads provided with deck tubes or watertight glands yes, where unarmoured cables pass through beams, etc., are the holes

actively bushed yes. Refrigerated chambers, are the cables and fittings as per Rule yes



Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes. Emergency Supply, state position 2nd Deck midship stand side

Navigation Lamps, are they separately wired yes controlled by separate double pole switches and fuses yes. Are the switches and fuses a position accessible only to the officers on watch yes, is an automatic indicator fitted yes. Is an alternative supply provided yes.

Secondary Batteries, are they constructed and fitted as per Rule yes, are they adequately ventilated yes. state battery capacity in ampere hours 24V 174 Ah 2 sets, 32V 174 Ah 1 set, 8V 80 Ah 2 sets, 156V 2 Ah 2 sets

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof yes. Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present NO if so, how are they protected — and where are the controlling switches fitted —. Are all fittings suitably ventilated yes.

Searchlight Lamps, No. of —, whether fixed or portable —, are they of the carbon arc or of the filament type —.

Heating and Cooking, is the general construction as per Rule yes, are the frames effectually earthed yes, are heaters in accommodation of the convection type yes. Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil yes. Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment yes. Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing —. Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule yes.

Control Gear and Resistances, and they constructed and fitted as per Rule yes. Lightning Conductors, where required are they fitted as per Rule —. Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with —, are all fuses of an Approved Cartridge Type —, make of fuse —. Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships —. Are the cables lead covered as per Rule —.

E. S. D., if fitted state maker KELVIN & HUGHES location of transmitter Fr. No. 110 ~ 111 stand side and receiver Fr. No. 110 ~ 111 Port side From Center 1.400 mm. From Center 1.400 mm.

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations yes.

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory yes.

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Amperes.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	3	Mitsubishi Electric Mfg. Co., Ltd.	200	225	890	420	4 cycle single acting	Mitsui Shipbuilding & Engineering Co. Ltd.
EMERGENCY ROTARY TRANSFORMER	1	Kurosaki Mfg. Co., Ltd.	10	225	445	600	4 cycle single acting	Osaka Matsudoki K. K.

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or Sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ...	200	2	0.5	890	1044	40	Varnished Cambric	Lead-Alloy Sheathed & Armoured
" " EQUALISER ...		1	"					
EMERGENCY GENERATOR ...	10	1	0.0145	445	55	5	Varnished Cambric	Lead-Alloy Sheathed & Armoured
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR...								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.								
From Main Switchboard To Emergency Switchboard	1	0.25	247.64	331	52	Varnished Cambric	Lead-Alloy Sheathed & Armoured	
" " Shore Connection Box	1	0.4	400	448	118	"	"	
From Emergency Switchboard To Power Panel No. 1	1	0.007	9.05	27	50	"	"	
" " " No. 2	1	0.0225	46	72	38	"	"	
From Main Switchboard To Power Panel No. 3	1	0.25	300	331	120	"	"	
" " " No. 4	1	0.15	220	238	78	"	"	
" " " No. 5	1	0.1	177.5	185	68	"	"	
" " " No. 6	1	0.25	300	331	120	"	"	
" " " No. 7	1	0.0225	39	72	56	"	"	
From Emergency Switchboard To Power Panel No. 8	1	0.0145	30	55	36	"	"	
From Main Switchboard To Power Panel No. 9	1	0.0145	42	55	17	"	"	
" " " No. 10	1	0.007	18	27	62	"	"	
" " " No. 11	1	0.06	111	130	30	"	"	
" " " No. 12	1	0.0225	57	72	18	"	"	
" " " No. 13	1	0.1	140	185	160	"	"	
" " " No. 14	1	0.06	34	130	120	"	"	
" " " No. 15	1	0.06	68	130	78	"	"	
" " " No. 16	1	0.06	68	130	120	"	"	
From Emergency Switchboard To Light Panel No. 1	1	0.01	17.1	41	37	"	"	
" " " No. 2	1	0.0145	19.6	55	35	"	"	
" " " No. 3	1	0.007	20.7	27	30	"	"	
" " Section Box No. 3	1	0.0045	27	11	22	Vulcanized Rubber	"	
From Section Box No. 3 To Light Panel No. 4	1	0.0045	4.4	11	42	"	"	
From Emergency Switchboard To Light Panel No. 6	1	0.0045	6.1	11	66	"	"	
" " " No. 7	1	0.0045	6.1	11	146	"	"	
" " " No. 8	1	0.0145	26.8	55	37	Varnished Cambric	"	
From Main Switchboard To Section Box No. 1	1	0.01	25.1	41	75	"	"	
From Section Box No. 1 To Cargo Light Panel No. 1	1	0.007	14.2	27	50	"	"	
From Main Switchboard To Section Box No. 2	1	0.01	26.1	41	68	"	"	
From Section Box No. 2 To Cargo Light Panel No. 4	1	0.007	13.1	27	52	"	"	
From Main Switchboard To Room Heater Panel No. 1	1	0.03	79.1	84	40	"	"	
" " " No. 2	1	0.06	100	130	36	"	"	
" " Cabin Fan Panel No. 1	1	0.0045	3.64	11	40	Vulcanized Rubber	"	
" " " No. 2	1	0.0045	5.5	11	36	"	"	
" " Power Panel No. 2	1	0.0225	46	72	45	Varnished Cambric	"	
" " Battery Switchboard	1	0.0145	22	55	52	"	"	
From Emergency Switchboard To Wireless Switchboard	1	0.1	45	185	45	"	"	
From Shore Connection Box To Switch Box for Elec. Welding	1	0.0145	40	55	20	"	"	



LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet)	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dis. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
From Main Switchboard To Nav. Lamp Indicator	1	0.003	0.82	7	56	Vulcanized Rubber	Lead-Alloy Sheathed & Armoured
From Light Panel No. 1 To Nav. Lamp Indicator	1	0.003	0.82	7	14	"	Lead-Alloy Sheathed
" " Wheelhouse & Gauge Lamp	1	0.003	0.41	7		"	"
" " Sig. Lt., Morse Lamp, Chart Rm. LT.	1	0.003	2.94	7		"	"
" " Chart Rm. & W/T Rm. LT.	1	0.003	1.9	7		"	"
" " Captain Rm. LT.	1	0.003	1.91	7		"	"
" " 3 <sup>RD</sup> Off. & 2 <sup>ND</sup> Ope. Rm. LT.	1	0.003	1.09	7		"	"
" " 2 <sup>ND</sup> Off. & 3 <sup>RD</sup> Ope. & Clark Rm. LT.	1	0.003	1.23	7		"	"
" " Gyro & 2 <sup>ND</sup> App. Rm. LT.	1	0.003	1.23	7		"	"
" " Chief Ope. & Doctor Rm. LT.	1	0.003	1.02	7		"	"
" " Passage & Fly. Br. Dk. LT.	1	0.003	1.09	7		"	"
" " Upper Br. Dk. LT.	1	0.003	1.09	7		"	"
From Light Panel No. 2 To Saloon & Smoking Rm. LT.	1	0.003	3.41	7		"	"
" " Chief Off. & State Rm. LT.	1	0.003	1.86	7		"	"
" " Purser & Chief Steward Rm. LT.	1	0.003	1.41	7		"	"
" " Pantry, Boat Dk. Passage & Off's Bathing LT.	1	0.003	1.45	7		"	"
" " M-G-Rm., Bath Rm. & Boat Deck (Port) LT.	1	0.003	3.27	7		"	"
" " Boat Deck (Stard) LT.	1	0.003	2.55	7		"	"
" " Pantry LT. & Heater	1	0.003	48.991	7		"	"
" " Refrigerator	1	0.003	12.5	7		"	"
From Light Panel No. 3 To Chief Eng. & 4 <sup>TH</sup> Eng. Rm. LT.	1	0.003	2.18	7		"	"
" " 1 <sup>ST</sup> , 2 <sup>ND</sup> , 3 <sup>RD</sup> Eng. Rm. LT.	1	0.003	1.95	7		"	"
" " Off's Mess., Bath & W.C. Rm. LT.	1	0.003	1.86	7		"	"
" " Oilier's Rm. LT.	1	0.003	1.91	7		"	"
" " Tally Off., Boat Dk. & Carpt. St. K. Rm. LT.	1	0.003	1.5	7		"	"
" " Q/M Rm. LT.	1	0.003	1.5	7		"	"
" " Crew's Mess., Gallery & Cook Rm. LT.	1	0.003	2.73	7		"	"
" " Upper Deck Mid. Ship Passage (Port) LT.	1	0.003	1.36	7		"	"
" " Upper Deck Mid. Ship Passage (Stard) LT.	1	0.003	1.09	7		"	"
" " Upper Deck (Port) LT.	1	0.003	1.27	7		"	"
" " Upper Deck (Stard) LT.	1	0.003	1.09	7		"	"
" " Funnel LT.	1	0.003	2.25	7		"	"
From Light Panel No. 4 To 2 <sup>ND</sup> Deck Mid. Ship Passage (Port) LT.	1	0.003	0.71	7		"	"
" " Sailer Rm. LT.	1	0.003	0.82	7		"	"
" " Boy & Sailer Rm. LT.	1	0.003	1.36	7		"	"
" " Wiper & Donk. Rm. LT.	1	0.003	1.64	7		"	"
From Light Panel No. 5 To 2 <sup>ND</sup> Deck Mid. Ship Passage (Stard) LT.	1	0.003	0.73	7		"	Lead-Alloy Sheathed & Armoured
" " Emerg. Dynamo & Refrig Rm. LT.	1	0.003	1.45	7		"	"
" " Store & Passage LT.	1	0.003	1.64	7		"	"
" " ELECTRIC Washer	1	0.003	1.59	7		"	"
From Light Panel No. 6 To Windlass Cont. Rm. & Store LT. (App. Dk. Aft.)	1	0.003	1.27	7		"	"
" " Cont. & Resist. Rm. & Store LT. ( " )	1	0.003	1.68	7		"	"
" " Cont. & Resist. Rm. & Store LT. ( " )	1	0.003	1.27	7		"	"
From Light Panel No. 7 To Cont. & Resist. Rm. & Store LT. (App. Dk. Aft.)	1	0.003	1.27	7		"	"
" " Deck LT. (App. Dk. Aft.)	1	0.003	1.55	7		"	"
" " Hospital & Passage ( " )	1	0.003	1.41	7		"	"
" " Steerig Rm., Refrig. Rm. & Store LT.	1	0.003	1.91	7		"	"
From Light Panel No. 8 To Eng. Rm. Ceiling LT. (Upp. & 2 <sup>ND</sup> Dk.)	1	0.003	1.55	7		"	"
" " " (Boat, Upp. & 2 <sup>ND</sup> Dk.)	1	0.003	2.09	7		"	"
" " " (Partial Dk.)	1	0.003	1.09	7		"	"
" " " (Partial Dk. & Store)	1	0.003	3.64	7		"	"
" " " (Floor LT.)	1	0.0045	7.	11		"	"
" " " (Floor LT. Fore)	1	0.0045	7.	11		"	"
" " Shaft Tunnel	1	0.003	1.82	7		"	"
" " Eng. Rm. Portable Lamp	1	0.003	0.73	7		"	"
" " " "	1	0.003	1.27	7		"	"
" " " "	1	0.003	1.27	7		"	"
" " Eng. Cool. W. Alarm Circuit	1	0.003	1.05	7		"	"
" " Lubricator Heater	1	0.003		7		"	"
From Cargo Light Panel No. 1 To No. 1 Hatch LT.	1	0.003	3.64	7		"	"
" " " Dk. Flood LT. (Fore Mast)	1	0.003	4.55	7		"	"
" " " No. 2 Hatch & Fore Mast	1	0.003	6.	7		"	"
From Cargo Light Panel No. 2 To Dk. Flood LT. (King Post)	1	0.003	4.55	7		"	"
" " " Mid. Winch Table Portable LT.	1	0.003	0.36	7		"	"
" " " No. 3 Hatch & King Post LT.	1	0.003	6.	7		"	"
From Cargo Light Panel No. 3 To Projector (Compass Flat)	1	0.003	4.73	7		"	"
" " " " (Boat Dk. Aft.)	1	0.003	4.55	7		"	"
" " " Boat Dk. & Panel Rm. Portable LT.	1	0.003	0.55	7		"	"
" " " No. 4 Hatch LT.	1	0.003	3.27	7		"	"
From Cargo Light Panel No. 4 To Dk. Flood LT. (Main Mast)	1	0.003	4.55	7		"	"
" " " Aft. Winch Table Portable LT.	1	0.003	0.36	7		"	"
" " " No. 5 Hatch & Main Mast LT.	1	0.003	6.	7		"	"
" " " Projector (Dock Br.)	1	0.003	2.27	7		"	"
From Room Heater Panel No. 1 To Chart Rm. Heater	1	0.0045	7.27	11		"	Lead-Alloy Sheathed
" " " Doctor & W/T Rm. Heater	1	0.0045	9.09	11		"	"
" " " 2 <sup>ND</sup> Off., 3 <sup>RD</sup> Ope. & App. Rm. Heater	1	0.0045	10.91	11		"	"
" " " Captain Rm. Heater	1	0.0045	9.09	11		"	"
" " " Chief Ope. Rm. Heater	1	0.003	4.55	7		"	"
" " " 2 <sup>ND</sup> Ope. & 3 <sup>RD</sup> Off. Rm. Heater	1	0.0045	7.27	11		"	"
" " " Purser & Steward Rm. Heater	1	0.0045	8.18	11		"	"
" " " Chief Off. & Off's Smok. Rm. Heater	1	0.0045	9.09	11		"	"
" " " Saloon Heater	1	0.0045	9.09	11		"	"
" " " State Rm. Heater	1	0.003	4.55	7		"	"
From Room Heater Panel No. 2 To Off's Mess. Rm. Heater	1	0.0045	9.09	11		"	"
" " " 3 <sup>RD</sup> & 4 <sup>TH</sup> Eng. Rm. Heater	1	0.0045	7.27	11		"	"
" " " 1 <sup>ST</sup> & 2 <sup>ND</sup> Eng. Rm. Heater	1	0.0045	8.18	11		"	"
" " " Chief Eng. Rm. Heater	1	0.0045	8.18	11		"	"
" " " Oil. Rm. Heater	1	0.0045	10.91	11		"	"
" " " Boy & Sal. Rm. Heater	1	0.0045	10.91	11		"	"
" " " Wiper & Donkey Rm. Heater	1	0.0045	7.27	11		"	"
" " " Boat Dk., Carp. & Tally Rm. Heater	1	0.0045	10.91	11		"	"
" " " G/M & Cook Rm. Heater	1	0.0045	10.91	11		"	"
" " " Crew's Mess. Rm. Heater	1	0.0045	9.09	11		"	"
" " " Hospital Heater	1	0.0045	7.27	11		"	"
From Cabin Fan Panel No. 1 To Upp. Br. Dk. Cabin & W/T Rm. Fan	1	0.003	1.82	7		"	"
" " " Boat Dk. Cabin, Saloon & Smok. Fan	1	0.003	1.82	7		"	"
From Cabin Fan Panel No. 2 To Off's Mess. & Engineer's Rm. Fan	1	0.003	1.82	7		"	"
" " " Wiper's, Boy's, Oil's & Sal's Rm. Fan	1	0.003	1.45	7		"	"
" " " Crew's Mess., Cook's, Galley, Boat Dk. Rm. Fan	1	0.003	1.82	7		"	"
" " " Hospital Fan	1	0.003	0.36	7		"	"
From Power Panel No. 1 To Rich Audio Fire Detector	1	0.003	5.	7		Vulcanized Rubber	Lead-Alloy Sheathed & Armoured
" " " Fire Alarm Bell	1	0.003	2.25	7		"	Lead-Alloy Sheathed
" " " Ship Log	1	0.003	0.3	7		"	"
" " " Magnet Valve for Tyfon	1	0.003	1.5	7		"	"
From Power Panel No. 2 To Echo Sounder	1	0.007	3.	27		Laminated Composite	"
" " " Radar	1	0.007	10.	27		"	"
" " " Gyro Compass	1	0.007	15.	27		"	"
" " " Gyro Pilot	1	0.007	15.	27		"	"
" " " Battery Charging Panel for Gyro Comp.	1	0.007	3.	27		"	Lead-Alloy Sheathed & Armoured
From Navigation Lamp Indicator To Fore Mast LT.	1	0.003	0.164	7		Vulcanized Rubber	Lead-Alloy Sheathed
" " " Main Mast LT.	1	0.003	0.164	7		"	Lead-Alloy Sheathed & Armoured
" " " Port Side LT.	1	0.003	0.164	7		"	"
" " " Stard Side LT.	1	0.003	0.164	7		"	"
" " " Stern LT.	1	0.003	0.164	7		"	"

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# MOTOR CABLES.

From Switch Board To Main Engineering MR	1	8	1	0.0145	33	55	80	Varnished Cambric	Lead-Alloy-Sheathed & Armoured
" " " Air Compressor MR	2	80	1	0.25	295	331	73	"	"
" " " Aux. F & S. W. Coal Pump MR	2	10	1	0.0225	40	72	85	"	"
" " " Motor for Rudder Angle Ind.	1	0.3 kVA	1	0.0045	22	11	29	Vulcanised Rubber Varnished Cambric	"
" " " Main S & F W. Coal Pump MR	3	35	1	0.1	134	185	68	"	"
" " " Lub. Oil Pump MR	2	75	1	0.25	285	331	55	"	"
" " " Ballast Pump MR	1	40	1	0.1	156	185	55	"	"
" " " General Service Pump MR	1	30	1	0.06	115	130	54	"	"
" " " Universal Mechanical MR	1	3	1	0.007	13	27	32	"	"
" " " Windlass MR	1	70	1	0.25	272	331	185	"	"
" " " Electric Hoist	1	7.5	1	0.01	30	41	36	"	"
" " " Winding Winch MR	1	65	1	0.2	252	286	145	"	"
" " " Starter for Steering MR	1	20	1	0.06	80	130	20	"	"
From Starter To Steering MR	1	20	1	0.06	80	130	158	Vulcanised Rubber	"
From Emergency Switchboard To Acc. Vent. Fan MR	1	1	1	0.0045	4.5	11	45	"	"
" " " To Oil Firing Fan MR Range	1	1	1	0.0045	4.5	11	66	"	"
" " " Cool. W. P. MR for Emer. Gen.	1	1/2	1	0.0045	2.6	11	50	"	"
From Power Panel No. 3-4-6 To 3 Cargo Winch MR	8	33	1	0.06	132	130	13	Varnished Cambric	"
From Power Panel No. 5 To 3 Cargo Winch MR	2	36	1	0.06	136	130	25	"	"
From Power Panel No. 3-6 To 5 Cargo Winch MR	4	50	1	0.1	195	185	13	"	"
From Power Panel No. 3-4-6 To Resist. Vent. Fan MR	3	2	1	0.007	35	27	6	"	"
From Power Panel No. 7 To Prov. Refrig. Comp. MR	1	7.5	1	0.01	30	41	5	"	"
" " " Prov. Refrig. Cool. P. MR	1	2	1	0.007	8.8	27	35	"	"
From Power Panel No. 8 To F.W. Sanitary Pump MR	1	4	1	0.007	17	27	50	"	"
" " " S.W. Sanitary Pump MR	1	3	1	0.007	13	27	5	"	"
From Power Panel No. 9 To Eng. Room Vent. Fan MR	2	5	1	0.01	20	41	58	"	"
From Power Panel No. 10 To F.A. Valve Cool. Pump MR	2	2	1	0.007	9	27	5	"	"
From Power Panel No. 11 To L.O. W. B. & Purifiers Cooler MR	4	5	1	0.01	21	41	12	"	"
" " " Shift Pump MR to Purifiers Cooler	3	2	1	0.007	9	27	14	"	"
From Power Panel No. 12 To F.A. Transfer Pump MR	1	12	1	0.0145	45	55	5	"	"
" " " L.O. Shift Pump MR	1	2	1	0.007	9	27	5	"	"
From Power Panel No. 13 To C.O. Compressor MR	2	13	1	0.0145	52	55	8	"	"
" " " Brine Pump MR	2	2	1	0.007	9	27	16	"	"
" " " Condenser Cool. Pump MR	2	2	1	0.007	9	27	30	"	"
From Power Panel No. 14-15 To Cargo Hold Vent. Fan MR	10	4	1	0.007	18	27	21	"	"



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The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description.

MITSUI SHIPBUILDING & ENGINEERING CO., LTD., TAMANO WORKS.

Electrical Contractors.

Date

H. Sakamake  
Director.

COMPASSES.

Have the compasses been adjusted under working conditions

yes

MITSUI SHIPBUILDING & ENGINEERING CO., LTD., TAMANO WORKS.

Builder's Signature.

Date

H. Sakamake  
Director.

Have the foregoing descriptions and schedules been verified and found correct

yes

Is this installation a duplicate of a previous case

NO

If so, state name of vessel

Plans. Are approved plans forwarded herewith

NO

If not, state date of approval

15th November,  
19th October, 1950

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith

yes

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The Electrical installation of this vessel has been constructed under Special Survey in accordance with the Rules, Approved plans and Secretary's letters.

The workmanship and materials are sound and good.

The Electrical installation has been examined under working condition on full load to Rules' requirements and found satisfactory.

Noted int 16/5/51

Total Capacity of Generators

610 ✓

Kilowatts.

The amount of Fee ...

£

:

When applied for,

19

Travelling Expenses (if any) £

:

When received,

19

S. Buris  
Surveyors to Lloyd's Register of Shipping.

Committee's Minute

TUES 22 MAY 1951

Assigned

See F.E. mch. rpt.



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