

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 7-10-1952 When handed in at Local Office 7-10-1952 Port of SINGAPORE.

No. in Survey held at SINGAPORE Date, First Survey 12/6/52 Last Survey 2-7-1952  
Reg. Book. (No. of Visits 8)90157 on the STEEL SELF MOTOR VESSEL "BUNGA" (WATER TANKER) Tons Gross 213.19  
Net 74.02

Built at SINGAPORE By whom built SINGAPORE HARBOUR BOARD Yard No. 1512 When built 1952

Owners W. HAMMER &amp; CO. LD Port belonging to SINGAPORE.

Installation fitted by SINGAPORE HARBOUR BOARD When fitted 1952

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No Radar No

Plans, have they been submitted and approved YES System of Distribution 2-WIRE (BATTERIES) Voltage of Lighting 24

Heating None Power None D.C. or A.C., Lighting D.C. Power - If A.C. state frequency -

(DIESEL ENGINE DRIVING CARBO PUMP) 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 No, and level compounded under working conditions -

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

in parallel - are short field regulators provided - Is the compound winding connected to the negative or positive pole

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

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

Position of Generators ATTACHED TO DIESEL ENGINE OF THE CARBO PUMP

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 FORWARD BULKHEAD OF ENGINE

Room at STARBORD SIDE.

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 SINDANYO, 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 -

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and the switch and fuse gear (or circuit breakers) for each outgoing circuit 5 DOUBLE POLE TUMBLER SWITCHES AND 10 - 5/15

AMOSTLE ARTIE FUSES.

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Are compartments containing switchboards composed of fire-resisting material or lined as per Rule - Instruments on main switchboard ONE

ammeters - 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. - Earth Testing, state means provided -

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Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES

make of fuses ARTIE, are all fuses labelled YES If circuit breakers are provided for the generators, at what

overload do they operate - and at what current do the reversed current protective devices operate -

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 -

state maximum fall of pressure between bus bars and any point under maximum load - are the ends of all cables having a sectional

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

cables sealed at the ends - 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

adequately protected - Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit -

or of the "HR" type - State how the cables are supported or protected CABLES CLIPPED TO PERFORATED

CARRIER RATES

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

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

effectively bashed - Refrigerated chambers, are the cables and fittings as per Rule -

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PAID AS SUPPLIED BY C.A.V.

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**yes**



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## PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN BATTERY. CHARGING.	1	C.A.Y.	—	24.	10/15.	—	SADLER Diesel Engine.	
EMERGENCY ...								
ROTARY								
TRANSFORMER								

## 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 of No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
	<i>BATTERY CHARGER.</i>	<i>1</i>	<i>7/044.</i>	<i>12/15.</i>	<i>-</i>	<i>6FT.</i>	<i>V.L.R.</i>	<i>LEAD.</i>
MAIN GENERATOR ... ..								
" " EQUALISER ... ..								
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR ... ..								
" " GENERATOR...								

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

[illegible]

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

[illegible]

## MOTOR CABLES.

[illegible]



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.

*H. J. Corrigan*

Electrical Contractors.

Date *7th October, 1952*

#### COMPASSES.

Have the compasses been adjusted under working conditions *YES.*

*R. Wm. Breeth*

Builder's Signature.

Date

*Ag. Dockyard Manager*

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 *YES* If not, state date of approval *—*

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

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

*The electrical appliances of this vessel have been installed under Special Permit, and in accordance with the approved plans and Rule Requirements.*

*Insulation tests have been carried out and found satisfactory.*

*The installation examined under working conditions and found satisfactory.*

*The electrical installation of this vessel is eligible, in my opinion, to be classed with the Society.*

#### LIST OF APPROVED PLANS:

WIRING DIAGRAM (S.H.B.)

WIRING DIAGRAM (E.A.V.)

ARRANGEMENT OF CONTROL BOARD

OUTLINE OF SWITCHBOARD

*Noted ADM 31-10-52*

Total Capacity of Generators *—* Kilowatts.

The amount of Fee ... £ *\$120/-*

When applied for,

*7/8/52*

When received,

*19*

Travelling Expenses (if any) £ *—*

*W. P. Watson*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

*FRI. 21 NOV 1952*

Assigned

*See F. E. mch. rpt*