

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 3 JUN 1925

Date of writing Report 16.5.1925 When handed in at Local Office 10 Port of GLASGOW.
No. in Survey held at GREENOCK. Date, First Survey 4th 7th Last Survey May 20th 1925
Reg. Book. 90577 on the S. S. RAJPUT (Number of Visits 7)
Built at PORT GLASGOW. By whom built MESSRS LITHGOWS LTD Yard No. 443 Tons { Gross 5321
Net 3391
When built 1925.
Owners THE ASITIC ST NAV. CO LTD Port belonging to LONDON.
Electric Light Installation fitted by MESSRS THE SUNDERLAND FORGE & CO Contract No. 773 When fitted 1925

System of Distribution DOUBLE WIRE, DISTRIBUTION BOX.

Pressure of supply for Lighting 110. volts, Heating — volts, Power — volts.

Direct or Alternating Current, Lighting — Power —

If alternating current system, state frequency of periods per second —

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES.

Generators, do they comply with the requirements regarding overload YES, are they compound wound YES.

are they over compounded 5 per cent. YES, if not compound wound state distance between each generator —

Where more than one generator is fitted are they arranged to run in parallel —, is an adjustable regulating resistance fitted in series with each shunt field —

Are all terminals accessible and clearly marked YES, are they so spaced or shielded that they cannot be accidentally earthed,

or short circuited YES Are the lubricating arrangements of the generators as per Rule YES.

Position of Generators ENGINE ROOM

is the ventilation in way of the generators satisfactory YES, are they clear of all inflammable material YES

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

and —, are the generators protected from mechanical injury and damage from water, steam or oil YES

are their axis of rotation fore and aft YES

Earthing, are the bedplates and frames of the generating plant efficiently earthed YES are the prime movers and

their respective generators in metallic contact YES

Main Switch Board, where placed ENGINE ROOM.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES

are they protected from mechanical injury and damage from water, steam or oil YES, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards — and —

are they constructed wholly of durable, incombustible non-absorbent materials YES, is all insulation of high dielectric strength and of

permanently high insulation resistance YES, if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework YES, and is the

frame effectively earthed YES Are the following fittings as per Rule, viz.: — spacing or shielding of live parts

YES, accessibility of all parts YES, absence of fuses on back of board YES, proportion of omnibus

bars YES, individual fuses to voltmeter, pilot or earth lamp YES, connections of switches YES

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

DOUBLE POLE SWITCH & FUSES FOR GENERATOR & DOUBLE POLE SWITCHES & FUSES FOR FEEDER

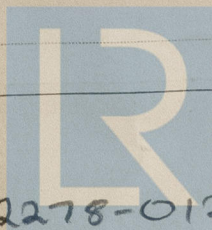
CIRCUITS

Instruments on main switchboard ONE ammeter ONE voltmeter synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system EARTH LAMPS

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES.



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012278-012278-00612-00

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office

[illegible]

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

P. Pro The Sunderland Forge & Eng. Co. Ltd.

J. Thompson

Electrical Engineers.

Date 21/5/25.

COMPASSES.

Distance between electric generators or motors and standard compass 128 Ft.

Distance between electric generators or motors and steering compass 120 -

The nearest cables to the compasses are as follows:—

A cable carrying 10.78 Ampères 6 feet from standard compass feet from steering compass.

A cable carrying .2 Ampères 3 feet from standard compass feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power *yes*.

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *yes*.

The maximum deviation due to electric currents was found to be *hil* degrees on *any* course in the case of the standard compass, and *hil* degrees on *any* course in the case of the steering compass.

LITHGOVS LIMITED

W. B. Allen

Director & Secretary

Builder's Signature.

Date 28. May 1925

Is this installation a duplicate of a previous case *no*. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted on board under special survey. Tested under full working conditions and found satisfactory. The workmanship was found to be good and sound.

Total Capacity of Generators 15 Kilowatts

The amount of Fee ... £15.0.0. When applied for, *afk*

Travelling Expenses (if any) £ 10/6. When received, *1/6. 25 afk*

J. S. Rankin
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 2-JUN 1925

Assigned *Elec. Light*



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Foundation