

Rpt. 13.

No. 1399

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

6 DEC 1948

Date of writing Report 20, 10, 4810 When handed in at Local Office 10 Port of Karachi

No. in Survey held at East Wharf Date, First Survey Last Survey 19
Reg. Book. (Number of Visits.....)

on the steel screw steamer FIRISHTA (ex HMIS Poona)

Tons { Gross
NetBuilt at Calcutta By whom built Hooghly Dock & Eng^g Yard No. When built

Owners East & West Steamship Co Port belonging to Karachi

Electric Light Installation fitted by Hooghly Dock & Eng^g Co Contract No. When fitted

System of Distribution Parallel Constant Pressure; 2 wire

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

Direct or Alternating Current, Lighting Direct Current 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. ✓, if not compound wound state distance between each generator ✓

Where more than one generator is fitted are they arranged to run in parallel No, is an adjustable regulating resistance fitted in series with each shunt field Yes

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 In 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 Boards, where placed Adjacent to Generators in 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 ✓, 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 D. P switches & fuses.

Instruments on main switchboard one ammeters one voltmeters ✓ 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

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

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

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

The foregoing is a correct description.

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass *60 feet*

Distance between electric generators or motors and steering compass *53 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *3* Amperes *16* feet from standard compass *6* feet from steering compass.

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

A cable carrying Amperes 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 *negligible* degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case *yes* If so, state name of vessel *FATIMA*

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

Many of the circuits are wired with conductors which are heavier than required but there was no alternative size available.

The workmanship is good and full megger tests were carried out during the progress of the work, and on completion.

The fuel for the diesel engine driver generator is carried in 259 gallon steel tank bracketted to the frames and fitted with a dial type gauge. The Air and filling pipes are led to the upper deck and protected by wire gauge.

The electrical equipment in my opinion complies with the rules.

Both generators cannot be used at the same time.

Notes sent 4/1/49.

Total Capacity of Generators *25* Kilowatts

The amount of Fee ... *£ 5-5-0* { When applied for, 19...
Travelling Expenses (if any) £ : : { When received, 19...

John
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 13 MAY 1949*

Assigned



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