

DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible *Yes.*

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture, *Armoured wire, & through galvanized iron pipes.*

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat *Armoured wire, galvanized*

What special protection has been provided for the cables near boiler casings *Armoured wire, galvanized.*

What special protection has been provided for the cables in engine room *Armoured wire & through galvanized iron pipes*

How are cables carried through beams *through lead bushes.* through bulkheads, &c. *through water tight glands.*

How are cables carried through decks *through galvanized tubes*

Are any cables run through coal bunkers *Yes.* or cargo spaces *Yes.* or spaces which may be used for carrying cargo, stores, or baggage *Yes.*

If so, how are they protected *Armoured wire galvanized, & galvanized iron pipes.*

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage *Yes.*

If so, how are the lamp fittings and cable terminals specially protected *Strong guards, cable terminals are in Cast iron boxes*

Where are the main switches and fuses for these lights fitted *In the entrance on Shelter deck.*

If in the spaces, how are they specially protected *None.*

Are any switches or fuses fitted in bunkers *No.*

Cargo light cables, whether portable or permanently fixed *portable* How fixed *by fibre fork connectrs.*

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel

How are the returns from the lamps connected to the hull

Are all the joints with the hull in accessible positions

Is the installation supplied with a voltmeter *Yes.* and with an amperemeter *Yes.* fixed *main switch board.*

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are all switches and fuses fitted in positions not liable to the accumulation of petroleum vapour or gas

Are any switches, fuses, or joints of cables fitted in the pump room or companion

How are the lamps specially protected in places liable to the accumulation of vapour or gas

The copper used is guaranteed to have a conductivity of not less than that of the Engineering Standards Committee's standard, and the wires are protected by tinning from the sulphur compounds present in the insulating material.

Insulation of cables is guaranteed to have a resistance of not less than *600* megohms per statute mile at 60° Fahrenheit after 24 hours' immersion in water, the test being made after one minute's electrification at not less than 500 volts and while the cable is still immersed.

The foregoing statements are a correct description of the Electric Light installation fitted by us on this vessel and we declare that it is at this date in good order and safe working condition.

NAGASAKI WORKS, MITSUBISHI ZOSEN KAISHA, LTD.

Ishida

Electrical Engineers

Date

COMPASSES.

GENERAL MANAGER.

Distance between dynamo or electric motors and standard compass

Distance between dynamo or electric motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
<i>5.6</i>	<i>9</i>	<i>7</i>	
<i>/</i>	<i>/</i>	<i>/</i>	
<i>/</i>	<i>/</i>	<i>/</i>	

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

The maximum deviation due to electric currents, etc., was found to be *Nil* degrees on *any* course in the case of the

standard compass and *Nil* degrees on *any* course in the case of the steering compass.

NAGASAKI WORKS, MITSUBISHI ZOSEN KAISHA, LTD.

Ishida

Builder's Signature.

Date

GENERAL REMARKS.

This Electric light installation has been fitted in accordance with the Rules, tested under full load and found satisfactory.

M. Boylan.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

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THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.