

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report... 29th NOVEMBER 1946 When handed in at Local Office... 7/12/46 Port of... GLASGOW

No. in Survey held at... PORT GLASGOW Date, First Survey... 24th OCTOBER Last Survey... 26th NOVEMBER 1946
Reg. Book.

88978 on the... S.S. 'SHANZADA' Tons { Gross... 5460 Net... 3210

Built at... PORT GLASGOW By whom built... LITHGOWS LTD Yard No... 1013 When built... 1946

Owners... ASIATIC STEAM NAV. CO LTD Port belonging to... LONDON

Electrical Installation fitted by... SUNDERLAND FORGE & ENGINEERING CO LTD Contract No... 1013 When fitted... 1946

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

Have plans been submitted and approved... YES System of Distribution... TWO WIRE Voltage of supply for Lighting... 110

Heating... Power... 110 Direct or Alternating Current, Lighting... D.C. Power... D.C. If Alternating Current state periodicity... Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off... YES Are turbine emergency governors fitted with a

trip switch as per Rule... YES Generators, are they compound wound... YES, are they level compounded under working conditions... YES,

if not compound wound state distance between generators... and from switchboard... Where more than one generator is fitted are they

arranged to run in parallel... No, 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... Have certificates of

test for machines under 100 kw. been supplied... YES and the results found as per rule... YES Are the lubricating arrangements and the construction

of the generators as per rule... YES Position of Generators... ON STARBOARD SIDE OF ENGINE-ROOM

is the ventilation in way of generators satisfactory... YES are they clear of inflammable material... YES, if situated

near unprotected combustible material state distance from same horizontally... and vertically... are the generators protected from mechanical

injury and damage from water, steam and oil... YES, are the bedplates and frames earthed... YES and the prime movers and generators in metallic

contact... YES Switchboards, where are main switchboards placed... NEAR GENERATORS

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

and oil... YES, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation

material 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 frame effectually earthed... YES

Is the construction as per Rule... YES, including accessibility of parts... YES, absence of fuses on the back of the board... YES, individual fuses

to pilot and earth lamps, voltmeters, etc... YES locking of screws and nuts... YES, labelling of apparatus and fuses... YES, fuses on the "dead"

side of switches... YES Description of Main Switchgear for each generator and arrangement of equaliser switches...

200 AMP D.P. KNIFE PATTERN SWITCH WITH FUSES

and for each outgoing circuit... 60 AMP D.P. C.O. SWITCHES WITH FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES Instruments on main switchboard... 2

ammeters... 2 voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... Earth Testing, state means provided... EARTH LAMPS

Switches, Circuit Breakers and Fuses, are they as per Rule... YES, are the fuses an approved type... YES, are all fuses labelled as

per Rule... YES If circuit breakers are provided for the generators, at what overload current did they open when tested... are the reversed current

protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current

did they operate... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... YES

Cables, are they insulated and protected as per the appropriate Tables of the Rules... YES, if otherwise than as per Rule are they of an approved type... YES

state maximum fall of pressure between bus bars and any point under maximum load... 5.2 VOLTS, are the ends of all cables having a sectional area of 0.03

square inch and above provided with soldering sockets... YES Are paper insulated and varnished cambric insulated cables sealed at the ends... YES

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES

LIGHTING AND HEATING, ETC., CABLES.

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.

P.Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 2/12/46

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... EIGHTEEN FEET.

Minimum distance between electric generators or motors and steering compass..... EIGHTEEN FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 7 Ampères 8 feet from standard compass 7 feet from steering compass.

A cable carrying 237 Ampères LED INTO feet from standard compass LED INTO 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 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.

LITHGOWS LIMITED.

Builder's Signature.

Date 3/12/46

H. A. White Secretary

Is this installation a duplicate of a previous case..... YES If so, state name of vessel S.S. 'SHAHJEHAN'

Plans. Are approved plans forwarded herewith..... No If not, state date of approval 1st July 1946

Certificates. Are certificates of test for motors engaged on essential 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 equipment of this vessel has been fitted on board under Special Survey, tested under working conditions and found satisfactory. The materials and workmanship are good.

Notes Trm 23.12.46

Total Capacity of Generators 40 Kilowatts.

The amount of Fee ... £ 32 : 10 : 00

When applied for,

2.10.

Travelling Expenses (if any) £ — : 12/6

When received.

19.

J. M. Gardiner.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW

Assigned SEE ACCOMPANYING MACHINERY REPORT



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Foundation