

Rpt. 13.

No. 14457

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 10 FEB 1951

Date of writing Report 20th Jan 1951 When handed in at Local Office 19 Port of Calcutta

No. in Survey held at VIZAGAPATAM Date, First Survey 14th Sept 50 Last Survey 13th Jan 1951
Reg. Book.(Number of Visits 5)
Tons { Gross 510.4
Net 301.5

on the SS "JALAPADMA"

Built at Vizagapatam By whom built Scindia Steam Nav Co Ltd Yard No. When built 1950

Owners Scindia Steam Nav Co Ltd Port belonging to Bombay

Electrical Installation fitted by Scindia Steam Navigation Co Ltd Contract No. 7105 When fitted 1950

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

Have plans been submitted and approved yes System of Distribution Two wire parallel Voltage of supply for Lighting 110

Heating - Power - Direct or Alternating Current, Lighting D.C. Power - If Alternating Current state frequency - Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off yes Are turbine emergency governors fitted with a

trip switch as per Rule - 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 yes 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 main engine room, starboard side.

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 main engine, starboard side.

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 Sindanaga, if of synthetic insulating material is it an Approved Type - , 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 8 way circuit

main switchboard fitted with D.P., D.T. switches, ammeter, voltmeter

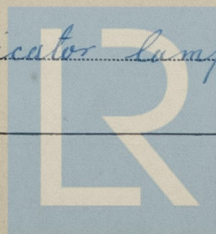
pilot lamp and earth lamps.

and for each outgoing circuit D.P. D.T. knife switches

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 indicator lamps

Lloyd's Register
Foundation
003926-003936-0114 1/2

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	<i>Two</i>	<i>20</i>	<i>110</i>	<i>180</i>	<i>400</i>	<i>Direct coupled to single cylinder steam engines.</i>	<i>-</i>	<i>-</i>
EMERGENCY ..								
ROTARY TRANSFORMER ..								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH	HOW PROTECTED.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule			
MAIN GENERATOR No 1 ..	20	6w	0.2	180	229	4.4	L.C.A.	Fitted on mild
EQUALISER No 2 ..	20	6w	0.2	180	229	3.8	4	steel perforated channels.
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ..								
GENERATOR								

MAIN DISTRIBUTION CABLES.

AUX. SWITCHBOARDS AND SECTION BOARDS	
Saloon circuit.	1	·0225	26 ✓		185	L.C.A. fitted on M.S. &	
Wireless "	1	·0225	10 ✓		220	[perforated channel.	
Navigation "	1	·007	7 ✓		230	to	
largo "	1	·0225	36 ✓		70	bracket.	
Engineers amidship.	1	·01	28 ✓		90		
Ventilator	1	·06	63 ✓		180		
After accommodation.	1	·0225	32 ✓		203		
Engine & Boiler Rooms.	1	·0225	40 ✓		20		

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS	1	0145	10 ✓	56	220	L.C.A	filled on M.S.
NAVIGATION LIGHTS	1	007	7 ✓	28	230	&	and perforated
LIGHTING AND HEATING						braided	channel.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Thermotank ventilator									
motors									
Saloon.	1	1.5	1	.007	13.6✓	220	LCA	Fitted on M.S.	
Midship.	1	1.5	1	.007	13.6✓	21	&	perforated channel	
After supply.	1	3.0	1	.0225	25.7✓	185	bricked.		
Fresh water	1	1.25	1	.007	11.8✓	30			
Midship exhaust.	1	.25	1	.003	1.7✓	80			
Refrigerator motor.	1	.5	1	.003	5.5✓	53			

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.

For The Scindia Steam Navigation Co Ltd

Electrical Engineers.

Date 29th Dec 1950.

Chief Shipyard Manager

COMPASSES.

Minimum distance between electric generators or motors and standard compass 15 ft.

Minimum distance between electric generators or motors and steering compass 15 ft.

The nearest cables to the compasses are as follows :—

A cable carrying 5 Ampères 15 ft. feet from standard compass, 15 ft. feet from steering compass.

A cable carrying — Ampères — 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 nil degrees on all course in the case of the

standard compass, and nil degrees on all course in the case of the steering compass.

For The Scindia Steam Navigation Co Ltd

Builder's Signature.

Date 29th Dec 1950.

Chief Shipyard Manager

Is this installation a duplicate of a previous case yes. If so, state name of vessel "JALAPRAKASH"

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 installed under special survey in accordance with approved plans and the Secretary's letters.

The workmanship is good.

On completion of the installation, the insulation tested in accordance with Rule requirements, with satisfactory results.

The installation has been examined under full working conditions, speed governors tried, with satisfactory results.

It is submitted that this installation be classed in the Register Book in accordance with the machinery class as now recommended.

Noted SW 27/2/51

Total Capacity of Generators 40 Kilowatts.

The amount of Fee

1430/- Rs.

When applied for,

19

Travelling Expenses (if any) £

When received,

19

E. Grieres.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 6 MAR 1951

Assigned

See F.E. mch. rpt.