

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 4.3. 1964 When handed in at Local Office 19 Port of Hamburg

No. in Survey held at Elmshorn Date, First Survey 17.12.63 Last Survey 31.1. 19 64
Reg. Book 1 (No. of Visits 4)

on the "JWTA JAMUNA" Tons Gross Net

Built at Elmshorn By whom built Messrs. Kremer Sohn Yard No. 1103 When built 64.2

Owners Inland Water Transport Authority Port belonging to Narayanganj East Pakistan

Installation fitted by Messrs. Gebr. Meyn, Elmshorn When fitted 1964

Is vessel equipped for carrying Petroleum in bulk. - Is vessel equipped with D.F. - E.S.D. - Gy.C. - Sub.Sig. - Radar -

Plans, have they been submitted and approved. yes System of Distribution two wire insulated Voltage of Lighting 110

Heating - Power 110 D.C. or A.C. Lighting DC Power DC If A.C. state frequency -

Prime Movers, has the governing been found as per Rule when full load is thrown on and off. yes Are turbine emergency governors fitted

with a trip switch. - Generators, are they compound wound. yes, and level compounded under working conditions. -

Are the generators arranged to run in parallel. no Is the compound winding connected to the negative or positive pole. -

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing. Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule. yes Position of Generators port and stbd. ER platform

is the ventilation in way of generators satisfactory. yes are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil. yes Switchboards, where are main switchboards placed. aft. ER bulkhead

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

steam and oil. yes, what insulation is used for the panels. dead front construction, 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 construction as per Rule, including locking of screws and nuts. yes Description of Main Switchgear

for each generator and arrangement of equaliser switches. double pole switches and fuses, for generators

double pole change-over switches

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. double pole switches and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. yes Instruments on main switchboard. 3

ammeters 3 voltmeters. - synchronising devices. For compound machines in parallel are the ammeters and reverse current

protection devices connected on the pole opposite to the equaliser connection. Earth Testing, state means provided ohmmeter

and earth lamps Preference Tripping, state if provided. - and tested. -

Switches, Circuit Breakers and Fuses, are they as per Rule. yes, are the fuses an Approved Type. yes

make of fuses Siemens, are all fuses labelled. yes. If circuit breakers are provided for the generators, at what

overload do they operate. - and at what current do the reverse current protective

devices operate. - Cables, are they insulated and protected as per Rule. yes

if otherwise than as per Rule are they of an Approved Type. - state maximum fall of pressure between bus bars and any point

under maximum load. less than 6 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends. yes

Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical

damage. yes, are any cables laid under machines or floorplates. no, if so, are they adequately protected. State

type of cables (if in conduit this should also be stated) in machinery spaces LC-metal braided MK, galleys LC-metal braided MK

and laundries. - State how the cables are supported or protected. suitable clipped to metal trays,

supports, framework, structure or wood gounds and protected by pipes or plates as

necessary.

Are all lead sheaths, armouring and conduits effectually bonded and earthed. yes Are all cables passing through decks and watertight

bulkheads provided with deck tubes or watertight glands. yes, where unarmoured cables pass through beams, etc., are the holes

effectively bushed. yes Refrigerated chambers, are the cables and fittings as per Rule.

Have refrigeration fan motors been constructed under survey. - and test certificates supplied.

Are the motors accessible for maintenance at all times. -

Battery placed port side main deck - 110 V. yes Emergency Supply, state position

Navigation Lamps, are they separately wired yes controlled by separate double pole switches and fuses yes. Are the switches and fuses in a position accessible only to the officers on watch yes, is an automatic indicator fitted yes. Are the switches and fuses in

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule.....yes..... Is an alternative supply provided.....yes.....
ampere hours.....120..... Where required to do so does it comply with....., state battery capacity in

Lighting, is fluorescent lighting fitted no If so, state nominal lamp voltage - and compartments where lamps are fitted -

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof.....

Searchlights, No. of 1, whether fixed or portable fixed, are they of the carbon arc or of the filament type filament
Heating and Cooking, is the general construction as per Rule -, are the frames of steel -

compartments in which inflammable gases cannot accumulate and protected from damage from water.

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment. yes Have motors of 100 BHP and over been inspected by the Surveyors during

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule.....yes.....

ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with _____, are all fuses of an Approved Cartridge Type _____, make of fuse _____

Are the fittings for pump
S.D., if fitted state maker..... Are all cables lead covered as per Rule.....
..... location of transmitter and receiver.....

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory.....yes

PARTICULARS OF GENERATING PLANT						
DESCRIPTION OF GENERATOR	No. of	MAKER	RATED AT		PRIME MOVES	
			Kw.			

PARTICULARS OF GENERATING PLANT									
DESCRIPTION OF GENERATOR		No. of	MAKER	RATED AT				PRIME MOVER	
				Kw. per Generator	Volts	Ampères	Revs. per Min.	TYPE	MAKER
MAIN ...	1	Kaiser Berlin	12	115	104	1500	oil engine	Deutz AG	
	1	Kaiser Berlin	12	115	104	1500	oil engine	Deutz AG	
EMERGENCY ... ROTARY TRANSFORMER									

[illegible]

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.)							
DESCRIPTION							
<u>Main Switch board to distr. boards</u>							
Accommodation lighting	1	10	30	41	29	rubber	LC-metal braided MK
Wheelhouse lighting	1	6	20	30	26.5	rubber	LC-metal braided MK
Navigation lamps	1	1.5	4	12	27.5	rubber	LC-metal braided MK
Distr.board wheelhouse to nav.lamps	1	1.5	4	12	10	rubber	LC-metal braided MK
Lighting ER port side	1	1.5	6	12	30	rubber	LC-metal braided MK
Lighting ER stbd.side	1	1.5	6	12	30	rubber	LC-metal Braided MK
Lighting ER casing	1	1.5	4	12	20	rubber	LC-metal braided MK

DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.)

MOTOR CABLES

ALL IMPORTANT MOTORS TO BE ENUMERATED	No.	B.H.P.		mm ²					
Fan battery room	1	0.13	1	1.5	1.3	12	20	rubber	LC-metal braided MK
ER fans	2	0.3	1	1.5	2.9	17	28.5	butyl	LC-metal braided MKH
OF transfer pump	1	0.5	1	1.5	4.9	17	36	butyl	LC-metal braided MKH
FW sanitary pump	1	1	1	1.5	8.8	12	20.5	rubber	LC-metal braided MK
SW sanitary pump	1	1	1	1.5	8.8	12	22.5	rubber	LC-metal braided MK
Galley burner	1	-	1	1.5	0.2	12	21.0	rubber	LC-metal braided MK

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.

Gebr. Meyp
H. Meyp

Electrical Contractors.

Date 11.4.64

COMPASSES

Have the compasses been adjusted under working conditions.

D.W. Kremer Sohn
Schiffswerft
Elmshorn

Builder's Signature.

Date 12/4/64

Have the foregoing descriptions and schedules been verified and found correct. yes

Is this installation a duplicate of a previous case. yes If so, state name of vessel Yard No. 1102

Plans. Are approved plans forwarded herewith. yes If not, state date of approval 12.11.62

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith. yes

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The electrical equipment of this ship has been installed under
special survey in accordance with the approved plans and the Secretary's letters.
The material and workmanship are good.

On completion the equipment has been tried under working conditions and found
satisfactory. The electrical equipment is, in my opinion, suitable for a ship
classed with the Society.

Total Capacity of Generators 24 Kilowatts.

The amount of Fee ... £ 47.0.0. When applied for,

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Travelling Expenses (if any) £ 4.0.0 :

When received,

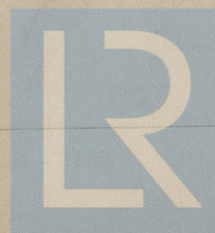
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Surveyor to Lloyd's Register of Shipping

MONDAY 27 APR 1964

Committee's Minute

Assigned See Rpt 1



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*RMH
24.3.64.