

# REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 26th Sep. 19 63 When handed in at Local Office 27th Sep. 63 Port of Rijeka

No. in Survey held at Macvanska Mitrovica Date, First Survey 31st May Last Survey 17th Aug. 63  
Reg. Book (No. of Visits 2)

on the 65' Inspection Launch "SITARA" Tons { Gross Net 1963

Built at Mac Mitrovica By whom built Shipyard "SAVA" Yard No. 97 When built 1963  
East Pakistan Inland Water

Owners Transport Authority Port belonging to Narayanganj

Installation fitted by Messrs. "Svjetlost" Rijeka When fitted 1963

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

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

Heating. - Power 110 D.C. ~~EXXO~~ Lighting D.C. Power D.C. 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. yes negative

Are the generators arranged to run in parallel. - Is the compound winding connected to the negative or positive pole. negative

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 E.R. Port side forward

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. E.R. forward 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 type, 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. Hand operated circuit breaker with instant short-circuit, overload and undervoltage releases

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. linked switches and 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 are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection. - Earth Testing, state means provided. yes

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 Schuckert, are all fuses labelled. yes If circuit breakers are provided for the generators, at what overload do they operate. 115% 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. 1 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. yes, if so, are they adequately protected. yes State

type of cables (if in conduit this should also be stated) in machinery spaces. Lead-alloy sheathed galleys & steel-braid arm.V.C.& V.R. insul on perforated steel trays and laundries. State how the cables are supported or protected.

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. -



© 2021

Lloyd's Register Foundation

2/1/64

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule...yes... Emergency Supply, state position Engine Room

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... Is an alternative supply provided...yes...

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule...yes... state battery capacity in ampere hours...170, 24V... Where required to do so does it comply with 1948 International Convention...-

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...yes

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...yes... are the frames effectually earthed...yes... are heaters in the accommodation of the convection type...-

Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil...yes

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...-

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing...-

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

Lightning Conductors, where required are they fitted as per Rule...-

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 rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships...-

Are all cables lead covered as per Rule...-

E.S.D., if fitted state maker...Kelvin Hughes... location of transmitter and receiver...between frames No.35 & 36

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations...yes

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				TYPE	PRIME MOVER
			Kw. per Generator	Volts	Ampères	Revs. per Min.		
MAIN ...	1	Kobenhavens Elektromotor Fabrik	6	115	52	1800	EV 100	BUKH A/S
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES

DESCRIPTION	No. of	Kw.	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return) in m.	INSULATION	PROTECTIVE COVERING
			No. in Parallel per Pole	Sectional Area or Nominal Dia. of Strands in sq. mm.	In the Circuit	Rule			
MAIN GENERATOR ...	1	6	1	25	52	77	8	V.C.	Lead-alloy & steel braid armour
" " EQUALISER ...									
EMERGENCY GENERATOR ...									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR ...									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.)

DESCRIPTION	No. of	Kw.	No. in Parallel per Pole	Sectional Area or Nominal Dia. of Strands in sq. mm.	In the Circuit	Rule	APPROX. LENGTH (lead plus return) in m.	INSULATION	PROTECTIVE COVERING
Battery	1	10	1	34	41	12	12	V.R.	Lead-alloy sheath
Auxiliary Switchboard	1	10	1	29	41	8	8	"	& steel-braid armour
Radar	1	4	1	10	19	16	16	"	"
E.S. Device	1	2,5	1	2	14	13	13	"	"
Searchlight	1	4	1	9	19	18	18	"	"
Wireless	1	10	1	12	41	6	6	"	"

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

DESCRIPTION	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return) in m.	INSULATION	PROTECTIVE COVERING
	No. in Parallel per Pole	Sectional Area or Nominal Dia. of Strands in sq. mm.	In the Circuit	Rule			
D.B. Navigation Lights, Supp. 1	1	2,5	6	14	28	V.R.	Lead-alloy sheath
D.B. " " Supp. 2	1	1,5	6	10	2	"	& steel braid arm.
D.B. Signals	1	16	14	45	29	"	"
D.B. Lighting aft	1	1,5	2,5	14	32	"	"
D.B. Crew Accom. Lighting aft	1	1,5	2,5	14	28	"	"
D.B. Accom. Lights, fore Pt.	1	1,5	2	14	7	"	"
D.B. " " " Stb.	1	1,5	3	14	7	"	"

MOTOR CABLES

ALL IMPORTANT MOTORS TO BE ENUMERATED	No.	B.H.P.	No. in Parallel per Pole	Sectional Area or Nominal Dia. of Strands in sq. mm.	In the Circuit	Rule	APPROX. LENGTH (lead plus return) in m.	INSULATION	PROTECTIVE COVERING
Fan	1	0,6	1	2,5	3,8	14	12	V.R.	Lead-alloy sheath
Shaft Dynamo	1	700W	1	10	29	41	3	"	& steel-braid arm.

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient

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.

*Samuel Lur*

Electrical Contractors. Date 2. X. 1963

**"SVJETLOST"**  
 TVORNICA EL. STROJEVA I UREDJIVA  
**RIJEKA**

**COMPASSES**

Have the compasses been adjusted under working conditions.....

*Jug Franusic*

Builder's Signature. Date 1. XI. 1963

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 "SURAIYA" Yard No. 96

Plans. Are approved plans forwarded herewith..... no If not, state date of approval 31st October, 1962

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

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

The electrical equipment has been installed under Special Survey in accordance with the requirements of the Rules approved plans and Secretary's letters.

The material and workmanship are good and the operation of the generator under full working conditions and function of the protective devices are satisfactory. The insulation resistance in the circuits were checked and found good. The voltage drop is satisfactory.

Total Capacity of Generators 6 Kilowatts.

The amount of Fee ... £ 12-0-0 : When applied for,  
 Din. 25.200.- } 19

Travelling Expenses (if any) £ : : When received, 19  
 Din. 2.000.-

R. Zahradka & J. Racki  
 Surveyor to Lloyd's Register of Shipping

*Zahradka* *Racki*

TUESDAY 14 JAN 1964

Committee's Minute.....

Assigned *Subpr*

RMMS  
 112 DEC 1963

3m. 5.60—Transfer. (MADE AND PRINTED IN ENGLAND) (The Surveyors are requested not to write on or below the space for Committee Minute.)



© 2021  
 Lloyd's Register  
 Foundation