

Date of writing report 15.10.62 Received London _____ Port CALCUTTA No. 20943
 Survey held at Calcutta No. of visits 9 In shops 9 First date 1.3.62 Last date 19.4.62
 On vessel 8 First date 12.7.62 Last date 24.9.62

FIRST ENTRY REPORT ON STEAM RECIPROCATING MACHINERY

No. in R.B. _____ Name AGNIJOY Gross tons _____
 Owners CALCUTTA PORT COMMISSIONERS Managers _____ Port of Registry CALCUTTA
 Hull built at CALCUTTA By HOOGLY DOCKING & ENG. CO. LTD. Yard No. 4142 Year _____ Month _____
 Main Engines made at CALCUTTA By HOOGLY DOCKING & ENG. CO. LTD. Eng. No. ME 11 & ME 12 When 1962
 Boilers made at GLASGOW By DAVID ROWAN & CO. LTD. Blr. Nos. B 623 When 1961
 Machinery installed at CALCUTTA By THE HOOGLY DOCKING & ENG. CO. LTD. When 1962
 Particulars of restricted service of ship, if limited for classification _____

Is ship to be classed for navigation in ice? No Particulars of vegetable or similar cargo oil notation, if required No
 Is ship intended to carry petroleum in bulk? No
 Is refrigerating machinery fitted? No If so, is it for cargo purposes? _____ Type of refrigerant _____
 Is the refrigerating machinery compartment isolated from the propelling machinery space? _____ Is the refrigerated cargo installation intended to be classed? _____

The following particulars should be given as fully and as clearly as possible. Dashes, ticks and other signs of doubtful meaning are not to be used. Wording not applicable to the installation may be cancelled with a black line

BOILERS AND OTHER STEAM PRESSURE VESSELS.

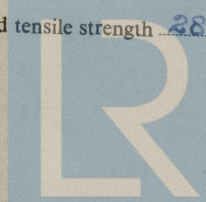
No. of main boilers ONE Type and licence name, if any MARINE HORIZONTAL RETURN TUBE Position ENGINE ROOM
 Saturated safety valve pressure 200 PSIG. Steam temperature if superheated _____ Superheater safety valve pressure _____
 Natural or forced draught FORCED DRAUGHT Fuel FURNACE OIL Report on main boilers (Port and No.) GLASGOW No. 92373
 No. of aux./donkey boilers NONE Type _____ W.P. _____ Position _____
 No. of steam heated steam generators NONE W.P. _____ No. of evaporators NONE W.P. _____
 Report on aux./donkey boilers or steam generators (Port and No.) NONE FITTED
 If the boilers are oil fired, is the arrangement of pipes, valves and controls in accordance with the Rules? YES
 No. and position of oil burning pressure units TWO IN ENGINE ROOM.
 No. and position of oil fuel settling or service tanks not forming part of hull structure NONE
 No. of forced draught fans and fan engines ONE

MAIN ENGINES (If the main engines have been constructed at another Port and are covered by a separate report, the particulars given in that report need not be repeated below, but the Port and Report No. should be stated)

Description and licence name, if any TRIPLE EXPANSION. UNDER LICENSE FROM M/S. PLENTY & SON. NEWBURY. U.K.
 No. of main engines TWO No. of screws TWO Max. total I.H.P. 1000 with _____ per cent. H.P. cut off at 160 R.P.M.
 No. of cylinders per engine THREE Dia. of cylinders (in sequence from fwd. to aft) 11 3/4" x 19 3/4" x 33 1/2" Stroke 22"
 Machinery numeral 170 Type of valves HP & IP PISTON, L.P. SLIDE Type of valve gear LINK MOTION (STEVENSON TYPE)
 If engine is of enclosed forced lubricated type state crankcase volume _____ No. and total area of explosion relief devices fitted? _____
 Which cylinders operate on Uniflow principle? NONE Is a steam reheater fitted? No Is a governor fitted? No
 Are the main engine frames or bedplate of welded construction? No Is the main engine secured directly to the tank top or to a built-up seating? BUILT UP SEATING.
 Is an exhaust steam turbine fitted? No S.H.P. of turbine _____ R.P.M. _____ Description of turbine and drive _____

SHAFTING

Working pressure for which shafting has been approved 200 PSIG. Date of approval of torsional vibration characteristics of the propelling machinery system, if required NOT REQUIRED State barred speed range, if imposed NONE
 CRANK SHAFT type—Built, Semi-built, Solid forged. Dia. of journals 6 5/8" Dia. of pins 6 5/8"
 Breadth of webs at mid length 12 1/2" Thickness 4 1/4" If shrunk, thickness around eyeholes 2 1/16" FOR MAIN PIN, 2 1/8" FOR CRANK PIN.
 Are dowel pins fitted? YES Crank shaft material MILD STEEL Minimum approved tensile strength 28 TONS PER SQ. INCH.
 THRUST SHAFT Dia. at collar(s) 6 5/8" Material MILD STEEL Minimum approved tensile strength 28 TONS PER SQ. INCH.



Lloyd's Register
Foundation

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GENERAL REMARKS

State if the machinery has been constructed and/or installed under special survey in accordance with the Rules, approved plans and Secretary's letters. State quality of materials and workmanship and give recommendations for classification, including any special notation to be assigned. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

THE MACHINERY OF THIS TUG HAS BEEN INSTALLED UNDER SPECIAL SURVEY IN ACCORDANCE WITH THE RULES OF THE SOCIETY, THE APPROVED PLANS AND SECRETARY'S LETTERS.

THE MATERIAL AND WORKMANSHIP ARE GOOD.

THE MAIN AND AUXILIARY MACHINERY HAVE BEEN EXAMINED UNDER WORKING CONDITIONS AND FOUND SATISFACTORY.

THE MACHINERY IN MY OPINION IS ELIGIBLE TO BE CLASSED + LMC. 9/62 NOTATIONS FOR THE REGISTER BOOK TS(OG). ENGINES MADE 1962. FITTED 1962.

[Signature]

Engineer Surveyor to Lloyd's Register of Shipping.

PARTICULARS OF IDENTIFICATION MARKS (Including Port of origin) of important Forgings and Castings. (Copies of certificates should be forwarded with report.)

RODS CONNECTING RODS L 98 AK 12/7/62, ECCENTRIC RODS L 94 AK 12/7/62

PISTON RODS L 96 AK 12/7/61.

CRANK SHAFT PORT NO LR ME.11 AMC 9/4/62, STARBOARD NO LR ME.12 AMC 12/4/62.

THRUST SHAFT LR NO 3540 & 3541 WC 2/12/60

INTERMEDIATE SHAFTS NONE

SCREW AND TUBE SHAFTS (PORT) BEL 732 L 84 AMC 27/9/61: (STARBOARD) BEL 964 L 85 AMC 27/9/61 CAL.

PROPELLERS (PORT) THORNYCROFT E. 6311 LR 977 TLM 16/1/62 (STARBOARD) THORNYCROFT E. 6306 LR 980 TLM 16/1/62

OTHER IMPORTANT ITEMS PROPELLER SHAFT NUTS L 78 AMC; PROPELLER SHAFT COUPLINGS L 82 AMC

Dates of examination of principal parts:—

PORT STARBOARD 12/7/62 Fitting of stern tube Fitting of propeller 19/7/62 Completion of sea connections 22/3/62 Alignment of crank shaft in main bearings 16/8/62

PORT & STARBOARD 16/8/62 Engine chocks & bolts PORT & STARBOARD 22/8/62 Alignment of straight shafting Testing of pumping arrangements 10/9/62

Oil fuel lines 1/8/62 Boiler supports 7/6/62 Steering machinery 10/9/62 Windlass 10/9/62

Date of Committee

Special Survey Fee BUILDING Rs. 1.50

Decision + LMC ES
MBS
TS(OG)
PAS
SPS
OF
9.62

INSTALLATION Rs. 2.40

Expenses Rs. 1.50

Date when A/c rendered 5th November