

STEEL STEAMER or MOTORSHIP.

Received at London Office DEC -1 1937

State if Report has been sent on the Freeboard of the Vessel *Yes*State if Report is sent on the Machinery of the Vessel *Yes*

Date of completion of report

29 - 11 - 37

Port of

Glasgow

No. 59070

Survey held at

Glasgow

Date First Survey

26th January 1937

Last Survey

18th November 1937

On the

(State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Steel Twin Screw Steamer "EL MADINA"

State Type

(Full Scantling, Complete Superstructure with or without Tonnage Openings)

Full Scantling (Shade Dk with side openings)

State Type of Erections

Forecastle

TONNAGE under Tonnage Deck...

2659.90

CLASS +100 A1

State if with freeboard as condition of Class

No

Built at

Glasgow

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern

L 344.54

Launched 22nd Sept 1937

Yard No. 666

Total

Breadth (greatest moulded)

B 50.0

Builders Barclay Curle & Co Ltd

Gross Tonnage

3961.99

Depth at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 27.6

Owners Scindia Steam Nav Co Ltd

Register Tonnage

1628.44

1st Longitudinal Number (L x D)

= 10198

Managers

(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D)

= 27425

Residence

REGISTERED DIMENSIONS.

FEET.

Length

359.8

Breadth

50.2

Depth

22.0

Framing Depth "d." at middle of length. See Sec. 3 (1d)

13.0

Proportions—Depth to Length—Uppermost continuous deck to top of keel

11.11

Port of Registry

Bombay

If surveyed while building, afloat, or in dry dock

Yes

Draught Moulded

20' 4 7/8

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.	
FRAMES, Spacing amidships	28			✓	Bracket Floors, Frame	L	6	3 1/2	36	✓
" " from 3/4 length to Collision bulkhead	27			✓	" " Reversed Frame	L	5 1/2	3	38	✓
" " in peaks	24			✓	" " Vertical Struts	L	8 x 3 x 3	38	50	✓
DE FRAMING.					Centre Girder, depth and thickness amidships	3 1/2	x	48	✓	
Frame Amidships, Angle, E or L	8	3 1/2	38	✓	" " top Angles	3	3	42	✓	
" " Extends up to	Main Dk			✓	" " bottom Angles	4	4	48	✓	
Reversed Frame Amidships, Angle				✓	Side Girders, No. each side and thickness	One	3	34	✓	
" " Extends up to				✓	Margin Plate depth (excl. of flange) and thickness	28 7/8	x	47	✓	
Depth of Framing Girder	8	3 1/2	34	✓	" " Vertical Angle to Tank side	5	5	38	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E or L	6	3 1/2	34	✓	Bracket abaft 1/4 len. from stem	5	5	38	✓	
" " Second 'tween Decks, Angle, E or L	6	3 1/2	34	✓	Vertical Angle to Tank side	6 1/2	6 1/2	55	5 x 5 = 38	✓
" " Third " " " "				✓	Bracket forward 1/4 len. from stem	5	5	38	✓	
Framing in Peaks, Angle or L	6	3	41	✓	Gussets, spacing and scantling abaft 1/4 len. from stem	5	5	38	✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8	3	6 1/8	✓	Gussets, spacing and scantling forward 1/4 len. from stem	5	5	38	✓	
State if Frame Joggled	Yes			✓	Tank Side Brackets, height above base line at toe of Frame and thickness	58 3/4	x	38	✓	
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars					INNER BOTTOM PLATING.					
Deep framing in strips as approved					Breadth and thickness of Middle Line Strake	72	x	45	✓	
3 Strakes thin plating .57					Thickness of remainder in Holds			40	✓	
Interstrake .3-6					Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	Yes			✓	
r as approved					BEAMS.					
DOUBLE BOTTOM.					Uppermost Continuous Deck, amidships	7	3	32	✓	
Floors, Depth and thickness at mid-line in Holds				✓	" " in way of Bridge, Angle, E or L				✓	
Height of Brackets at side above base line at toe of frame				✓	Spacing			28	✓	
Middle Line Keelson, on Floors, Angles, L or E				✓	Second Deck, amidships, Angle, E or L	7	3	32	✓	
" " Through Plate or Intercostal Plate				✓	Spacing			28	✓	
" " Foundation Plate on Floors				✓	Third Deck, amidships, Angle, E or L	8	3	34	✓	
" " Flat Plate Keel Angles				✓	Spacing			28	✓	
Side Keelsons, No. each side				✓	Fourth Deck, amidships, Angle, E or L				✓	
" " thickness of Intercostal Plate				✓	Spacing				✓	
" " Angles				✓	Poop Deck, Angle, E or L				✓	
DOUBLE BOTTOM.					Spacing				✓	
Solid Floors, thickness and spacing	.37	3	84	✓	Bridge Deck, Angle, E or L				✓	
" " Are Frame and Reversed Frame joggled?	Yes			✓	Spacing				✓	
Bracket Floors, breadth and thickness at middle line	29	x	37	✓	Forecastle Deck, Angle, E or L	5 1/2	3	34	✓	
" " breadth and thickness at margin plate	45	x	37	27 x 37	Spacing	7	3	32	✓	
						24	3	27	✓	

W240 - 0100 (112)

PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS , No. of Rows.....			Stringer Plate, breadth and thickness in way of Bridge	✓
„ in 'tween Decks, Size and Spacing.....			Thickness of Plating abreast Deck openings in way of Wells	✓ 28-40
„ „ „ „ „			Thickness of Plating abreast Deck openings in way of Bridge	✓
„ in Holds „ „			Thickness of Plating within line of openings.....	✓ 32-28
„ „ „ „ „			If Sheathed, material and thickness	✓ 0' 11 1/2" Exposed
Centre Line Bulkhead.			Third Deck.	
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....	✓ 81 " 34
Plating, thickness of	✓		If Plated, state thickness.....	✓ 30
STRINGERS AND DECKS.			Fourth Deck.	
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓
Stringer Plate, breadth and thickness in Wells	81 x .47 ✓ 38 ✓		If Plated, state thickness	✓
„ „ „ „ in way of Bridge	✓		Poop Deck.	
„ Angle in Wells	5 5 .50 ✓		Stringer Plate, breadth and thickness	✓
Thickness of Plating abreast Deck openings in way of Wells	✓ .34		Plating, Sheathing, material and thickness ..	✓
Thickness of Plating abreast Deck openings in way of Bridge	✓		Bridge Deck.	
Thickness of Plating within line of openings...	✓ .34		Stringer Plate, breadth and thickness.....	✓
If Sheathed, material and thickness	✓ Exposed 2 1/2" Oak		Plating, Sheathing, material and thickness ..	✓
Second Deck.			Forecastle Deck.	
Stringer Plate, breadth and thickness in Wells...	81 x .44-32 ✓		Stringer Plate, breadth and thickness.....	✓ 51 " 28
			Plating, Sheathing, material and thickness ..	✓ 26 " 2 1/2" Oak

SHELL PLATING.

SCANTLINGS.						RIVETING.					
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>to</i> ✓		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing or to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.	Inches.	Inches.	
FLAT PLATE KEEL	48 ✓	.64 ✓	.62 ✓	.62 ✓	.64-.58 ✓	Two	7/8	3 1/2 ✓	Three	7/8	3 1/2 ✓ Lapped
„ DBLG. (if any)											
BOTTOM PLATING, No. of Strakes <i>THREE</i> ...	75 ✓	.52 ✓	.50 ✓	.46 ✓	.52-.45 ✓	Two	7/8	3 1/2 ✓	Three	7/8	3 1/2 ✓ Lapped
BILGE PLATING, No. of Strakes <i>ONE</i> ...	68 ✓	.52 ✓	.50 ✓	.46 ✓	.52-.45 ✓	"	"	"	"	"	"
SIDE PLATING, No. of Strakes <i>FOUR</i> ...	82 ✓	.52 ✓	.43 ✓	.43 ✓	✓	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells.....	58 ✓	.68 ✓	.43 ✓	.43 ✓	.49-.61 ✓	"	"	Four	"	3 1/2 ✓	"
UPPER DECK, Sheer-strake in Bridge ...			✓			✓		✓			✓
STRAKE BELOW Sheer-strake in Wells.....	57 3/4 ✓	.64 ✓	.43 ✓	.43 ✓	.49-.59 ✓	Two	7/8	3 1/2 ✓	Three	7/8	3 1/2 ✓ Lapped
STRAKE BELOW Sheer-strake in Bridge ...											
POOP SIDE PLATING											
BRIDGE SIDE PLATING ...											
FORECASTLE SIDE PLATING			.38 ✓			One	3/4	3 ✓	One	3/4	2 7/8 ✓ Lapped

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	<i>Six</i> ✓
Extending to Upper Deck (Sec. 3 c)	<i>one</i> ✓
„ Deck next below	<i>five</i> ✓
As per Rule <i>approved</i>	<i>Six</i> ✓

STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks	.26	4 1/2 x 3 x .34 L	34	✓	
„ „ Second „					
„ „ Third „		8 x 3 x .35 L	29	✓	
„ „ Holds .....	.44-.28	7 x 3 x .42 L	24	✓	
COLLISION „ (in Hold) .....	.46-.30	7 x 3 x .33 L	24	✓	1 1/2 x 2 1/2 Strips
AFTER PEAK „ „ .....	.45-.75-.30	5 x 3 x .34 L	24	✓	1 1/2 x 2 1/2 Strips

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	M.S.	8 1/2 x 3 3/8	✓	
STERN FRAME	Propeller Post	C.S.	Approved Hammer	
	Rudder „	C.S.	Vertical	
Speed of Vessel		15 Knts	✓	
RUDDER—Type		Cast Steel frame	Hammer	
„ A x D		390	Vertical	✓
„ Diam. of head	F.S.	10 3/4	Vertical	✓
„ Mainpiece at top pintle	C.S.	10 3/8	✓	
„ „ heel ...	Approved	5 1/2	✓	
„ how constructed		Annular Cast with frame		
„ double or single plates		.40	✓	
„ coupling, vertical or horizontal.....		Horizontal		

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

STEEL.

The Steel Company of Scotland Ltd. Colville Ltd. Appleby Frodingham Steel Co. Ltd. Skinningrove Iron Co. Ltd. Dorman Long & Co. Ltd. Scottish Iron & Steel Co. Ltd.

Has the Steel been tested as required by the Rules? *Yes* ✓

EQUIPMENT No 29341 ✓											LETTER <i>W</i> <i>leave out</i> ANCHORS.				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				Cwts.
96264	1st Bower ...	52	3	17 ✓				44	5	0	0 ✓	Byers Type C.S. Head	S. Taylor Sons	Netheaton 12 th May 37 La Reef	
96314	2nd „ ...	52	3	0 ✓				44	1	3	14 ✓	Do	Do	Do 31 st May 37 Do	
96248	3rd „ ...	45	2	14 ✓				39	12	3	7 ✓	Do	Do	Do 10 th May 37 Do	
	Collective weight.	151	1	3 ✓								149 ² ✓			
96252	Stream	14	0	0 ✓	3	2	0	15	12	2	0	14 ⁶ Iron ✓	Ordinary 3 rd Iron	S. Taylor Sons	Netheaton 11 th May 37 La Reef

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.			Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.		
	Fathoms.	Ins.	Tons.	Break-ing.	Cwts.	qrs.	lbs.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
88559	270	1 ³ / ₁₆	82 ⁵ / ₈	115 ⁷ / ₁₀	470-0-13			270	1 ³ / ₁₆	Dayco	S. Taylor Sons	Netheaton 4 th June 37	TOWLINE	120	4 ¹ / ₂	43.3	120	4 ¹ / ₂	✓
88580	2e5	1 ³ / ₁₆	82 ⁵ / ₈	115 ⁷ / ₁₀	18-2-6					Do	Do	La Reef.	HAWSERS & WARPS	2e90	7	✓	2e90	7	✓
												Do Do		2e90	7	✓	2e90	7	✓
Iron Stream Chain or Steel Wire	90	4 ¹ / ₂	43.3					90	4 ¹ / ₂	5 W.R. 12									

Steering Gear, Steam *by J. Lynn. Wilson Penn type.* *Emergency* Steering Gear, Hand *Blocks & Tackle*

Boats *2 @ 27-0 = 8.75 = 3.66* *4 @ 30-0 = 9.35 = 3.9* *4 @ 35-75 = 8.45 = 3.45* Steering Chains, Size and Test *✓* Windlass *Steam 7¹/₂ by Clarke Chapman*

Ceiling *in* Holds, thickness and material *2¹/₂ 10 pine at bilge* Cargo Battens, thickness, material and spacing *2" 10 pine @ 9'*

Cargo Hatchways. (Upper Deck) *Steel plates and angles* Thickness of Hatches *2³/₈*

Size of No. 1 Hatchway (Forward) *18'-0" x 14'-0"* No. 2 *25'-8" x 14'-0"* No. 3 *25'-8" x 14'-0"* No. 4 *16'-4" x 14'-0"* No. 5 *✓* No. 6 *✓*

Number of Shifting Beams and *for Fore and Afters* *Three, Five, Five & Three respectively*

Builder's Signature *H. J. Curley* SECRETARY

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *No*

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *No* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the approved plans, the Secretary's letters of various dates and in conformity with the Society's rules for the Class contemplated.

The workmanship and materials are good. The bulkheads, ^{tunnels} decks, double bottom, fore and aft peak tanks and deep tanks have been tested in accordance with the rule requirements.

The freeboards verified and the marks cut in on the vessels side. The steering gear and windlass tried with satisfactory results.

Plans as per list on other side are forwarded herewith

The amount of Entry Fee £ 7 : 0 : 0 } Fees applied for, **29 NOV 1937** (Special notations, where part of class, to be stated.)

Special Survey Fee £ 273 : 2 : 0 } Received by me, *20/12 1937*

Freeboard

Travelling Expenses, if any £ 14 : 0 : 0 } *20/12 1937*

State whether the Vessel has been built under Special Survey *Yes* I am of opinion the Vessel should be Classed *+100A1*

Signature *Roman Dobson* Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to **GLASGOW** Date of issue *21-12-37*

Committee's Minute **GLASGOW 30 NOV 1937**

Character assigned *÷ 100A1*

11.37

Lloyd's A+C.P

+ L.M.C. 11.37

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

List of Plans.

Midship Section as built forwarded in advance.

Midship Section

Profile & Decks

Hy to Profile

Bulkheads

Fore end Framing

End frame brackets

Rudder, Stem frame and Propeller Brackets

Hatch webs, ends etc

Engine & Boiler Casings

Pillars & Girders

Tank Top.

Promenade Deck.

Midship house on Shelter Deck.

Boose framing & Stem Cauts

Tunnel plan

Coaling ports & Coal Shocks

Poop deck girders & modified Shelter Deck girders

Pillaring in Engine Room

Coal bunker bulkheads.

Lower deck bulkheads on Upper Deck.

Boat Deck

Deep Tank bulkheads

Midship house on Promenade Deck

Deep Tank Latches

Ladders & small pillars

Tunnel escape

Tunnel flat beams

Tunnel flat showing beams - plating

Plan showing I & B sliding hatch webs.

30 Alternative plan showing ends of I & B hatch webs.

31 Pillars & girders in Crew space

32 Ships side openings, doors & Vent Casings

33 Piping arrangement Profile

34 Do Decks

35 Arrangement of Decks.

36 Bilge & Ballast arrangement

37 Amended Tank Top at aft end of mach's space

38 Outline of erections for equipment

39 Arranged I & B Cover for Cooling Scuttle

Listing & Forging Certificate for Rudder, Rudderhead
Shaft brackets and Stem frame.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book.

Cruiser Stern. Passenger Certificate. Wireless. ~~Direction Finder~~ Lloyd's A & CP. Length O.A. = 374'-5 1/4"

Particulars of Drop Test of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials,
Number of Certificate, Date
of Test.

1st Bower	32	7	18	✓ R.L.	No 4505	31/7/36
2nd "	32	0	26	✓ R.L.	No 4458	29/5/36
3rd "	30	2	14	✓ R.L.	No 4015	15/11/35

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle ☒ ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

No. and Material of Decks 2 Sh. & Shade Deck (Teak S.)

Official No. ; Signal Letters Is bottom of vessel coated with cement Yes. if not give particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	105.0 ✓	153 ✓	Fore peak tank,	25.84 ✓	52 ✓
Double bottom, under Engines and Boilers,	70.0 ✓	236 ✓	After peak tank,	20.0 ✓	60 ✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	25.66 ✓	316 ✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	11.66 ✓	205 ✓
Double bottom, forward,	119.66 ✓	220 ✓	Other tanks, if fitted,	✓	✓
Total length of DBtm = 294.66 ✓		Total capacity of double bottom 609	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 6343

Date 29.12.36

Dates of Surveys held while building

1937 Jan: 26. 29 Feb: 2. 18. 24. 26 Mar: 2. 4. 12. 15. 19. 23. 25. 30 Apr: 5. 8. 9. 20. 22
23 May: 3. 6. 7. 11. 14. 18. 19. 21. 25 June: 1. 2. 8. 14. 16. 18. 21. 23. 24 July: 2. 5. 8. 9. 12. 13. 15. 28
30 Aug: 3. 5. 6. 9. 10. 12. 16. 17. 19. 31 Sep: 2. 6. 8. 9. 13. 14. 16. 17. 22 Oct: 5. 8. 11. 12. 13. 19. 20. 22
27 Nov: 4. 6. 8. 10. 11. 12. 15. 16. 17. 18

Total No. of Visits 85