

STEEL STEAMER ~~OR MOTORSHIP~~

Received at London Office

28 NOV 1928

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

26. 11. 28.

Port of

GLASGOW.

No. 48639

Survey held at

PAISLEY.

Date First Survey

3. 4. 28

Last Survey

26th Nov.

1928.

On the

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

Single Screw Steamer "KALAVATI."

State Type

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

Shellie deck, with Tonnage opening.

State Type of Erections

Forecastle on Shellie deck.

TONNAGE under Tonnage Deck...

942.62.

CLASS +100 A1.

"SHELTER DECK" WITH FREEBOARD.

State if with freeboard as condition of Class

YES.

Built at PAISLEY.

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

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L 230.

Launched 14.9.28.

Yard No. 479.

Total

942.62.

Breadth (greatest moulded)

B 38.5

Builders Bow. McLACHLAN & CO. LD.

Gross Tonnage

1185.11.

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

D 16.0

Owners BOMBAY STEAM NAV. CO. LD.

Register Tonnage

459.55.

1921-22 RULES. 1st Longitudinal Number (B+D)

= 54.5

Managers

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

2nd Numeral L x (B+D)

= 12535

REGISTERED DIMENSIONS.

FEET.

Length

230.85.

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

15' in Holds.

Residence BOMBAY.

Breadth

38.65.

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

13.16 in E.R.

Port of Registry BOMBAY.

Depth

14.75.

Do. Shellie deck. Long Bridge to top of keel

9.892

If surveyed while building, afloat, or in dry dock

Draught Moulded

15.6 1/2

Building & in Dry Dock.

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	23"		Bracket Floors, Frame		
" " from 3/4 length to Collision bulkhead	"		" " Reversed Frame		
" " in peaks	"		" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships	34 x 54	app. 42
Frame Amidships, Angle [or]	7 3 42		" " top Angles	double 3 3 52	" 40
" " Extends up to	Upper dk. All to Shellie dk. and at ends as approved.		" " bottom Angles	double 4 4 48	"
Reversed Frame Amidships, Angle	4 3 36		Side Girders, No. each side and thickness	Two at 42	" 30
" " Extends up to	double in Boiler Room 48 across top of floor.		Margin Plate depth (excl. of flange) and thickness	25 x 48	" 36
Depth of Framing Girder	7"		" " Vertical Angle to Tank side	3 3 44	" 32
Frames in Uppermost Continuous 'tween Decks, Angle [or]	7 3 42		" " Bracket abaft 1/4 len. from stem		
" " Second 'tween Decks, Angle [or]	on all frs. and as approved.		" " Vertical Angle to Tank side		
" " Third " " " "			" " Bracket forward 1/4 len. from stem		
Framing in Peaks, Angle [or]	5 1/2 3 40		" " Gussets, spacing and scantling abaft 1/4 len. from stem		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 @ 5 1/4		" " Gussets, spacing and scantling forward 1/4 len. from stem		
State if Frame Joggled	Yes.		Tank Side Brackets, height above base line at toe of Frame and thickness	48 x 44	" 32
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Beams and Stringers as approved.		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	As per approved plans.		Breadth and thickness of Middle Line Strake	50 x 52	34 x 40
SINGLE BOTTOM.			Thickness of remainder in	48	36
Floors, Depth and thickness at mid-line in Holds	24 x 40		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.	
Height of Brackets at side above base line at toe of frame	none.		BEAMS.		
Middle Line Keelson, on Floors, Angles			Uppermost Continuous Deck, amidships	6 1/2 3 40	
" " Through Plate	42		" " in Way of Bridge, Angle [or]	do.	
" " Foundation Plate on Floors	36 x 46		Spacing	23"	
" " Flat Plate Keel Angles	14 4 48		Second Deck, amidships, Angle [or]	7 1/2 3 44	
Side Keelsons, No. each side	Two		" " when plated on complete	6 1/2 3 40	
" " thickness of Intercoastal Plate	38		Spacing	23"	
" " Angles	double 5 3 1/2 38		Third Deck, amidships, Angle [or]		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	44 in way frame. appd. 32		Fourth Deck, amidships, Angle [or]		
" " Are Frame and Reversed Frame joggled?	Yes.		Spacing		
Bracket Floors, breadth and thickness at middle line			Poop Deck, Angle [or]	5 3 34	
" " breadth and thickness at margin plate			Spacing	23"	
			Boat & Bridge Deck, Angle [or]	5 3 34	
			Spacing	23"	
			Forecastle Deck, Angle [or]	5 1/2 3 30	
			Spacing	23"	

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.....	<i>one</i>		Stringer Plate, breadth and thickness in way of Bridge	<i>do</i>	
„ in 'tween Decks, Size and Spacing.....	} <i>Widely spaced pillars & deck girders as per approved plan.</i>		Thickness of Plating abreast Deck openings in way of Wells	<i>.50 tie plb</i>	
„ „ „ „ „			Thickness of Plating abreast Deck openings in way of Bridge	<i>.35 in way casing & bulkhead</i>	<i>.25 app'd</i>
„ in Holds „ „			Thickness of Plating within line of openings...		
„ „ „ „ „			If Sheathed, material and thickness	<i>p.p. 3 1/2"</i>	
Centre Line Bulkhead			Third Deck.		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....	✓	
Plating thickness of	✓		If Plated, state thickness.....	✓	
STRINGERS AND DECKS. Shellie dk.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	<i>46 x .50</i>	✓	If Plated, state thickness	✓	
„ „ „ „ in way of Bridge	<i>do</i>	✓	Poop Deck.		
„ Angle in Wells	<i>4 4 .48</i>	✓	Stringer Plate, breadth and thickness	<i>12 x .50</i>	
Thickness of Plating abreast Deck openings in way of Wells	<i>.36</i>	<i>app'd .36</i>	<i>Tie plb. 6 x .30</i> ✓	<i>Teak 2"</i>	
Thickness of Plating abreast Deck openings in way of Bridge	<i>.36</i>	<i>" .26.</i>	<i>Brak &</i>		
Thickness of Plating within line of openings...	<i>- "</i>	✓	Bridge Deck.		
If Sheathed, material and thickness	<i>Teak 2 1/2"</i>	✓	Stringer Plate, breadth and thickness.....	<i>12 x .50</i>	
Upper Second Deck.			<i>Tie plates 6 x .30</i> ✓	<i>Teak 2"</i>	
Stringer Plate, breadth and thickness in Wells...	<i>42 x .50</i>	✓	Forecastle Deck.		
			Stringer Plate, breadth and thickness.....	<i>23 x .50.</i>	
			Plating, Sheathing, material and thickness...	<i>.35 plg. Teak 2 1/2" .25 app'd.</i>	

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>no</i>			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	<i>42</i>	<i>.82</i>	<i>.66</i>	<i>.66</i>	<i>appd. '70-'54.</i>	<i>double</i>	<i>1"</i>	<i>3-8/8</i>	<i>Four</i>	<i>1"</i>	<i>3-1/8</i>	<i>strapped</i>	
" Bottom (if any)													
BOTTOM PLATING, No. of Strakes <i>3</i>		<i>.48</i>	<i>.58</i> <i>.50</i>	<i>.40</i> <i>.40</i>	<i>" 40 wds.</i>	<i>double</i>	<i>3/4"</i>	<i>3-3</i>	<i>Three</i>	<i>3/4"</i>	<i>2-6/8</i>	<i>lapped</i>	
BILGE PLATING, No. of Strakes <i>1</i>		<i>.48</i>	<i>.50</i>	<i>.40</i>	<i>" .48/.40</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
SIDE PLATING, No. of Strakes <i>3</i>		<i>.44</i>	<i>.40</i> <i>.38</i>	<i>.40</i> <i>.38</i>	<i>" .44/.38.</i>	<i>single</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
Upper DECK, Sheer-strake in Walls.....	<i>48</i>	<i>.58</i>	<i>.40</i>	<i>.40</i>	<i>" .48/.40.</i>	<i>double</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
UPPER DECK, Sheer-strake in Bridge ...												<i>"</i>	
STRAKE BELOW Sheer-strake in Walls.....	<i>45</i>	<i>.48</i>	<i>.40</i>	<i>.40</i>		<i>single</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
STRAKE BELOW Sheer-strake in Bridge ...						<i>"</i>	<i>"</i>	<i>"</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	
POOP SIDE PLATING.....				<i>.30</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	
Short BRIDGE SIDE PLATING...		<i>.30</i>				<i>"</i>	<i>"</i>	<i>"</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	
FOREC'TLE SIDE PLATING			<i>.30</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>Two</i>	<i>3/4</i>	<i>2-6/8</i>	<i>lapped.</i>	

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—				Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.						
Extending to Upper Deck (Sec. 3 c)													
Deck next below													
As per Rule													
		Plating Thickness.	STIFFENERS.				Midship Bulkhead.	Upper two decks	Second	Third	Holds	(in Hold)	AFTER PEAK
			VERTICAL.		HORIZONTAL.								
			Scantlings.	Spacing.	Scantlings.	Spacing.							
							<i>Imaging BH.</i>	<i>5 1/8"</i>	<i>angles.</i>	<i>3 1/2 x 3 x 30</i>	<i>30"</i>		
							<i>MIDSHIP BULK'D,</i>	<i>✓</i>	<i>as per approved</i>	<i>Plans.</i>			
							<i>" "</i>	<i>✓</i>	<i>B.A.</i>	<i>7 x 3 x 40</i>	<i>30"</i>		
							<i>" "</i>	<i>✓</i>	<i>38/30</i>	<i>7 1/2 x 3 x 46</i>	<i>24"</i>	<i>Pant-Sli.</i>	
							<i>" "</i>	<i>✓</i>	<i>38/30</i>	<i>6 x 3 x 32 B.A.</i>	<i>24"</i>	<i>Flat.</i>	
							<i>" "</i>	<i>✓</i>	<i>38/30</i>	<i>5 x 3 x 30 A.B.</i>	<i>24"</i>		

KEEL, Bar	✓			
STEM	<i>Rolled Steel bar.</i>	<i>7 1/4 x 2 1/4</i>		
STERN FRAME	Propeller Post	<i>Forging</i>	<i>7 1/4 x 5 1/4</i>	<i>J.S. Forster & Sons.</i>
	Rudder	<i>"</i>	<i>6 1/2 x 5 1/4</i>	<i>- "</i>
RUDDER—A x D	<i>264</i>	<i>44</i>		
Speed of Vessel	<i>11 1/2</i>	<i>Knots.</i>		
RUDDER mainpiece at head	<i>Forging</i>	<i>8 1/4"</i>	<i>Hogerman & Co</i>	
" "	<i>"</i>	<i>6 1/4"</i>	<i>order of J.S. Forster & Sons</i>	
" "	<i>heel</i>			
" "	<i>how constructed</i>	<i>Built and Forged</i>		
" "	<i>double or single plate</i>	<i>1"</i>		
" "	<i>coupling, vertical or horizontal</i>	<i>horizontal</i>		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *open- hearth process.*
David Colville & Sons. Lanarkshire Steel Co. James Dunlop & Co.

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

✓ **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.)

The following approved Plans forwarded herewith.

- ✓ 1. Midship Section.
- ✓ 2. Profile and Deck Plan.
- ✓ 3. Amended upper deck beam & scantlings.
- ✓ 4. Skin framing, Stern Cant and aft peak B&D.
- ✓ 5. Internal Plan & B&D.
- ✓ 6. Painting Arr. & Strengthening of bottom for
- ✓ 7. Bulkheads & W. Frame.
- ✓ 8. Pumping Plan.
- ✓ 9. Hatch Web Sockets
- ✓ 10. Forward Hatch, Deck Guides & Pillars.
- ✓ 11. Aft Hatch. do: do:
- ✓ 12. Mast Plan.
- ✓ 13. Rigging Plan.
- ✓ 14. Stempost & Rudder.

4 Forging Certificates

Midship Section (as built) forwarded previously.

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

1st Bower	17.5.18.	MAB.	1124.	30.3.27.
2nd "	14-0-5.	"	1229.	18.5.27.
3rd "	15-2-3.	"	1246.	22.6.27.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 34. ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated.

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 10th & Shell dk (SIL) Leak sheathed.

Official No. ; Signal Letters

particulars of composition Is bottom of Vessel coated with cement Yes. part: if not give
part Bitumastic Composition.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	✓		Fore peak tank,	16	54.8
Double bottom, under Engines and Boilers,	✓		After peak tank,	15.3	61.8
Double bottom, if under Engines only,	24.9	53	Deep tank, aft,	✓	
Double bottom, if under Boilers only,	✓		Deep tank, forward,	✓	
Double bottom, forward,	✓		Other tanks, if fitted, (If necessary, furnish further information by sketch.)	✓	
Total capacity of double bottom		53.			

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 5900

Date 15.3.28

Dates of Surveys held while building

1928 Apr 3.5.16.24 May 1.3.4.8.16.21.28 June 1.5.11.18.14.13.21.29 July 2.3.17.19.23.25
Aug 15.22.28 Sep 4.5.6.10.11.14.19.28 Oct 3.9.15.23 Nov 1.3.13.15.16.19.20.21.26

Total No. of Visits 49