

## STEEL STEAMER or MOTORSHIP.

14 SEP 1932

Received at London Office...

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

12-9-32

Port of

Glasgow

No

5 2 8 8 0

Survey held at

Glasgow

Date First Survey

8<sup>th</sup> Feb 1932

Last Survey

5<sup>th</sup> Sep 1932

1932

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

Steel Single Screw Steamer "BHADRABATI" (Machinery amidships)

State Type (Full scantling, Complete Superstructure with or without Tonnage Openings)

Complete Superstructure with Tonnage opening

State Type of Erections

Forecastle

TONNAGE under Tonnage Deck...

946.41

CLASS

+100 A1

State if with freeboard as condition of Class

Yes

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 post on summer L.W.L. See Sec. 3 (1a)

L 230.0

Launched

5<sup>th</sup> July 1932

Yard No. 925 G

Total

Breadth (greatest moulded)

B 38.5

Builders

Harland &amp; Wolff Ltd

Gross Tonnage

1306.60

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 Navigation Co Ltd

Register Tonnage

552.53

1st Longitudinal Number (L x D)

12535

Managers

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

## REGISTERED DIMENSIONS.

FEET.

Length

230.8

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

ER. 13.16

Residence

Breadth

38.65

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

9.9

Port of Registry

Bombay

Depth

14.8

Draught Moulded

15'-11<sup>3</sup>/<sub>4</sub>

If surveyed while building, afloat, and in dry dock

Yes.

## 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.
<b>FRAMES, Spacing amidships</b>	23				<b>Bracket Floors, Frame</b>	✓			
" " from $\frac{3}{8}$ length to Collision bulkhead	23				" " Reversed Frame	✓			
" " in peaks	23				" " Vertical Struts	✓			
<b>SIDE FRAMING.</b>					<b>Centre Girder, depth and thickness amidships</b>	34	x	54	✓
Frame Amidships, Angle, $\angle$ or $\square$ N.B.S.	7	3	42	✓	" " top Angles	3	3	52	✓
" " Extends up to	4	3	36	✓	" " bottom Angles	4	4	48	✓
Reversed Frame Amidships, Angle	4	3	36	✓	<b>Side Girders, No. each side and thickness</b>	2	@	42	✓
" " Extends up to	4	3	36	✓	<b>Margin Plate depth (excl. of flange) and thickness</b>	25	x	48	✓
Depth of Framing Girder	7			✓	" " Vertical Angle to Tank side Bracket $\frac{1}{2}$ len. from stem	3	3	44	✓
Frames in Uppermost Continuous 'tween Decks, Angle, $\angle$ or $\square$	7	3	42 @ 46	✓	" " Vertical Angle to Tank side Bracket forward $\frac{1}{2}$ len. from stem	3	3	44	✓
" " Second 'tween Decks, Angle, $\angle$ or $\square$	✓			✓	" " Gussets, spacing and scantling $\frac{1}{2}$ len. from stem	Continuous		44	✓
" " Third " " " "	✓			✓	" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem	✓			✓
Framing in Peaks, Angle $\angle$ or $\square$	5 $\frac{1}{2}$	3	40	✓	<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	48			✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4	@	5 1/2	✓	<b>INNER BOTTOM PLATING.</b>				
State if Frame Joggled	Yes.			✓	Breadth and thickness of Middle Line Strake	25	x	52	✓
<b>PANTING ARRANGEMENTS</b> (Sec. 7), state system and particulars	As per approved plan			✓	Thickness of remainder in Holds	1.0	and	48	✓
<b>STRENGTHENING OF BOTTOM FORWARD.</b> State Particulars	3 Planks shell & thickness & Intercoastals as per approved plan			✓	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.			✓
<b>SINGLE BOTTOM.</b>					<b>BEAMS.</b>				
Floors, Depth and thickness at mid-line in Holds	24	x	40	✓	Uppermost Continuous Deck, amidships, N.B.S. in Wells, Angle, $\angle$ or $\square$	6 1/2	3	42	6 1/2 x 3 x 40 08
Height of Brackets at side above base line at toe of frame	✓			✓	" " in way of Bridge, Angle, $\angle$ or $\square$	✓			✓
Middle Line Keelson, on Floors, Angles, $\angle$ or $\square$	3	3	46	✓	Spacing	23			✓
" " Through Plate or Intercoastal Plate	24	x	42	✓	<b>Second Deck, amidships, Angle, <math>\angle</math> or <math>\square</math> N.B.S.</b>	7 1/2	3	42	7 1/2 x 3 x 44 085
" " Foundation Plate on Floors	36	x	46	✓	Spacing	23			✓
" " Flat Plate Keel Angles	4	4	48	✓	<b>Third Deck, amidships, Angle, <math>\angle</math> or <math>\square</math></b>	✓			✓
Side Keelsons, No. each side	20			✓	Spacing	✓			✓
" " thickness of Intercoastal Plate	138			✓	<b>Fourth Deck, amidships, Angle, <math>\angle</math> or <math>\square</math></b>	✓			✓
" " Angles	5	3 1/2	38	✓	Spacing	✓			✓
<b>DOUBLE BOTTOM. (under engines)</b>					<b>Poop Deck, Angle, <math>\angle</math> or <math>\square</math></b>	✓			✓
Solid Floors, thickness and spacing	44	@	23	✓	Spacing	✓			✓
" " Are Frame and Reversed Frame joggled?	Yes			✓	<b>Bridge Deck, Angle, <math>\angle</math> or <math>\square</math></b>	✓			✓
Bracket Floors, breadth and thickness at middle line	✓			✓	Spacing	✓			✓
" " breadth and thickness at margin plate	✓			✓	<b>Forecastle Deck, Angle, <math>\angle</math> or <math>\square</math></b>	5 1/2	3	40	5 1/2 x 3 x 40
					Spacing	23			✓



<b>PILLARS AND DECKS.</b>							
		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.			
<b>PILLARS,</b>	No. of Rows.....						
"	in 'tween Decks, Size and Spacing.....						
"	" " " " "						
"	in Holds " "						
"	" " " " "						
<b>Centre Line Bulkhead.</b>							
	Stiffeners and Spacing.....	✓					
	Plating, thickness of .....	✓					
<b>STRINGERS AND DECKS.</b>							
<b>Uppermost Continuous Deck.</b>							
	Stringer Plate, breadth and thickness in Wells	46	x .50	✓			
"	" " " " in way of Bridge	✓					
"	Angle in Wells .....	4	4 .48	✓			
	Thickness of Plating abreast Deck openings } in way of Wells .....	.36		✓			
	Thickness of Plating abreast Deck openings } in way of Bridge .....	✓					
	Thickness of Plating within line of openings...	.36		✓			
	If Sheathed, material and thickness .....	Leak	2 1/2"	✓			
<b>Second Deck.</b>							
	Stringer Plate, breadth and thickness in Wells...	42	x .50	✓			
	Stringer Plate, breadth and thickness in way of Bridge .....						
	Thickness of Plating abreast Deck openings } in way of Wells .....	✓					
	Thickness of Plating abreast Deck openings } in way of Bridge .....						
	Thickness of Plating within line of openings...						
	If Sheathed, material and thickness .....						
<b>Third Deck.</b>							
	Stringer Plate, breadth and thickness.....			✓			
	If Plated, state thickness.....			✓			
<b>Fourth Deck.</b>							
	Stringer Plate, breadth and thickness.....			✓			
	If Plated, state thickness .....			✓			
<b>Poop Deck.</b>							
	Stringer Plate, breadth and thickness .....			✓			
	Plating, Sheathing, material and thickness ...			✓			
<b>Bridge Deck.</b>							
	Stringer Plate, breadth and thickness.....			✓			
	Plating, Sheathing, material and thickness ...			✓			
<b>Forecastle Deck.</b>							
	Stringer Plate, breadth and thickness.....	32	x .50	✓			
	Plating, Sheathing, material and thickness ...	35	x 2 1/2" Leak	✓			

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>Double</i>	<i>1</i>	<i>3 5/8</i>	<i>Four</i>	<i>1</i>	<i>4</i>	<i>Strapped</i>	
„ DBLG. (if any)		✓		✓									
BOTTOM PLATING, No. of Strakes <i>THREE</i>	<i>60</i>	<i>.48</i>	<i>.50</i>	<i>.48</i>		<i>Double</i>	<i>3/4</i>	<i>3 7/8</i>	<i>Three</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Lapped</i>	
BILGE PLATING, No. of Strakes <i>ONE</i>	<i>60 1/2</i>	<i>.48</i>	<i>.50</i>	<i>.42</i>		<i>Double</i>							
	<i>60</i>	<i>.44</i>	<i>.40</i>	<i>.40</i>									
SIDE PLATING, No. of Strakes <i>THREE</i>	<i>260</i>	<i>.44</i>	<i>.38</i>	<i>.38</i>		<i>Single</i>							
UPPER DECK, Sheer- strake in Walls.....	<i>48</i>	<i>.58</i>	<i>.40</i>	<i>.40</i>		<i>Double</i>							
UPPER DECK, Sheer- strake in Bridge ...		✓		✓									
STRAKE BELOW Sheer- strake in Walls.....	<i>45</i>	<i>.48</i>	<i>.40</i>	<i>.42</i>		<i>Double</i>	<i>3/4</i>	<i>3 7/8</i>	<i>Three</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Lapped</i>	
STRAKE BELOW Sheer- strake in Bridge ...		✓											
POOP SIDE PLATING .....		✓											
BRIDGE SIDE PLATING ...		✓											
FORECASTLE SIDE PLATING			<i>.30</i>			<i>Single</i>	<i>3/4</i>	<i>3 7/8</i>	<i>Two</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Lapped</i>	

Total No. of W.T. BULKHEADS in Vessel— Five

Extending to Upper Deck (Sec. 3 c) Two

„ Deck next below Three

As per Rule Four.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted
<b>KEEL, Bar</b> .....	✓			
<b>STEM</b> .....	M.S.	7 <sup>3</sup> / <sub>4</sub> x 2 <sup>1</sup> / <sub>4</sub>		7 <sup>1</sup> / <sub>4</sub> x 2 <sup>1</sup> / <sub>4</sub>
<b>STERN FRAME</b> {				
Propeller Post .....	F. I. Steel	7 <sup>1</sup> / <sub>2</sub> x 5 <sup>1</sup> / <sub>4</sub>	Denny Johnson	
Rudder " .....	Do.	6 <sup>1</sup> / <sub>2</sub> x 5 <sup>1</sup> / <sub>4</sub>	Faye Co.	
<b>RUDDER—A x D</b> .....		26 7.5	✓	
<b>Speed of Vessel</b> .....		11 <sup>1</sup> / <sub>2</sub> Knots	✓	
<b>RUDDER</b> mainpiece at head ...	✓	8 <sup>1</sup> / <sub>4</sub>	W. Smith	5 7 <sup>3</sup> / <sub>4</sub>
" " heel ...	✓	6 <sup>1</sup> / <sub>4</sub>	Halesover	
" how constructed .....	✓	Single plate	amss	Shank on
" <del>double</del> or single plate	✓	1.0"		
" coupling, vertical or horizontal .....		Vertical		

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open hearth process*  
*Colvilles & Co and Lanarkshire Steel Co Ltd.*

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



EQUIPMENT No. 14338												LETTER "P"		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.			
92593	1st Bower ...	31	3	14		✓		30	0	2	14	30½	Hingley Gallange 2½		Netheston 23 <sup>rd</sup> Dec 31 H Green
92722	2nd „ ...	29	2	21		✓		28	8	3	0	30½	Do	H. Hingley Sons	Do 1 <sup>st</sup> May 32 H Green
92723	3rd „ ...	26	1	21		✓		26	0	0	0	26	Do	Do.	Do Do Do
	Collective weight.	88	1	0								87.			
92784	Stream .....	7	3	0	2	0	0	9	18	0	14	7½ Ex Stock	Ord 3w. Iron	H. Hingley Sons	Netheston 23 <sup>rd</sup> June 32 La Rep.
92785	KEEGE	4	1	10	1	0	20	6	15	0	0	4½ Do	Do	Do	Do Do
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.	
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.		Length.	Diam.					Length.	Cir.		Length.	Cir.
97776	120 5/6	1 1/16	5 1/4	7 3/4	172-2-24	1 1/2	172-2-24	1 1/2	5/16	1 1/2	H. Hingley Sons	Netheston 3 <sup>rd</sup> May 32	TOWLINE	90	3 1/4	21 7/10	90	3 1/4
97779	120 2/3	1 1/16	5 1/4	7 3/4	173-1-7	3 1/4	240	1 1/2	5/16	Do	Do	Do. H Green	HAWSEERS & WARPS	2e 120	2 1/2	13 1/5	2e 120	2 1/2
					346-0-3									2e 90	6		2e 90	6
														2e 90	5		2e 90	5
Iron Stream Chain or Steel Wire	75	3 3/4		29.3				75	3 3/4	5 1/2								

Steering Gear, Steam 7" x 8" by Bow McLaughlan & Co Ltd  
Boats 4 @ 26'-0" x 8'-0" x 3'-3" Steel  
Ceiling in Holds, thickness and material 2 1/2" Res Pine  
Cargo Hatchways. (Upper Deck) Steel plates and angles  
Size of No. 1 Hatchway (Forward) 13'-5" x 12'-0" No. 2 17'-3" x 12'-0" No. 3 13'-5" x 12'-0" No. 4  
Number of Shifting Beams and/or Fore and Afters Two, Three and Two respectively  
Steering Gear, Hand and Steam Combined  
Windlass Steam 8 1/2" x 11" by Summers & Bates  
Cargo Battens, thickness, material and spacing 2" Res Pine, spaced 6' apart  
Thickness of Hatches  
For HARLAND AND WOLFF, LIMITED.  
Builder's Signature  
Govan Secretary.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel Yes (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 Secretaries letters of various dates and in conformity with the Societys rules for the class contemplated. The materials and workmanship are good. The double bottom tank, oil fuel tanks and peaks have been tested as required by the rules. The weather decks, bulkheads, and tunnel have been tested with satisfactory results, the freeboards verified and the marks cut in on the vessels sides. The windlass and steering gear was tried and found satisfactory. The vessel is fitted to carry oil fuel F.P. above 150°F in a deep tank amidships. Section 20 of the rules has been complied with. Coaling doors have been cut in the after hold and the oil bunker space fitted for coal burning.

Approved plans as detailed on back of report are forwarded herewith.

The amount of Entry Fee ..... £ 5 : 0 : 0  
Special Survey Fee .... £ 130 : 14 : 0  
Freeboard  
Travelling Expenses, if any £ 10 : 0 : 0

Fees applied for,

8 SEP 1932

Received by me,

24.9.1932

I am of opinion the Vessel should be Classed + 100A1

"Shelter deck with freeboard"

State whether the Vessel has been built under Special Survey Yes

Signature

Norman Dobson

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to

Date of issue

24/9/32

Committee's Minute GLASGOW 13 SEP 1932

Character assigned + 100A1

Shelter Deck with freeboard.

9.32

Lloyd's A.R.C.P.

+ L.M.C. 9.32. F.D.

Fitted for Oil Fuel 9.32.

F.P. above 150°F.

Rec Light.



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Lloyd's Register Foundation



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 and Decks.

✓ General Arrangement.

✓ After Hatch, Deck girders and Pillars

✓ Tunnel plan

✓ Air, filling, and sounding pipe to oil fuel bunkers.

✓ Crosshead for Steering Gear

✓ Tubular Steel Mast

✓ Painting Arrangement and Strengthening of bottom forward.

✓ Stem frame and Rudder.

✓ Forward Hatch, Deck Girders and Pillars.

✓ W.I. Bulkheads and O.F. Bunkers.

✓ W.I. Hatch to Chain Locker.

✓ W.I. Bulkhead No 88.

✓ Copying certificate of Stem frame and Rudder.

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

1st Bower	22	0	8	K.H. No 8353	25/7/30.
2nd "	18	1	21	M.B.	9472 27/11/31
3rd "	17	0	3	A.B.	2968 23/5/30

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 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) 12R (ph stl + ws) 15 Skells sk (stl - teals)

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.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank,	16-25	54-8
Double bottom, under Engines and Boilers,			After peak tank,	15-33	61-8
Double bottom, if under Engines only,	24-92	50	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		
* The wells are not to be included in the lengths of the tanks.					

Order for Special Survey No. 6154

Date 24-12-31

Dates of Surveys held while building

1932 Feb: 8, 29 Mar: 2, 3, 10, 14, 17 Apr: 8, 19 May: 9, 12, 17, 19, 24, 25, 26, 30, 31  
June: 1, 2, 8, 10, 14, 16, 20, 22, 27, 29 July: 4, 5, 6, 8 Aug: 10, 15, 17, 19, 22, 23, 24  
25, 27, 31 Sep: 5

Total No. of Visits 43