

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~

having **SHADE DECK**

Port of Survey **CALCUTTA.**

Date of Survey **16. 6. 32.**

Name of Surveyor **D. P. P. P.**

Particulars of Classification **+100 A.1. SHADE DECK.**

S.S. **JALAGOPAL** (Type of Superstructures.)

Ship's Name **S.S. "EDAVANA"**

Nationality and Port of Registry **BRITISH GLASGOW.**

Official Number **129544.**

Gross Tonnage **5284.**

Date of Build **1911-4.**

Moulded Dimensions: Length **399.66.** Breadth **52.25.** Depth **28.0.**

Moulded displacement at moulded draught = 85 per cent. of moulded depth

Coefficient of fineness for use with Tables

S.S. Cal N-3-12-27

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ...	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate ...	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50}$ =
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) =		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right)$ =

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

Percentage covered  $\frac{S}{L} =$

" "  $\frac{S_1}{L} =$

" "  $\frac{E}{L} =$

Percentage from Table, Line A.  
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.  
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =

### SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ...		1				1	
$\frac{1}{6}L$ from A.P. ...		4				4	
$\frac{2}{6}L$ " ...		2				2	
Amidships ...		4				4	
$\frac{3}{6}L$ from F.P. ...		2				2	
$\frac{4}{6}L$ " ...		4				4	
F.P. ...		1				1	
Total ...							

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

" " aft of " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( 75 - \frac{S}{2L} \right) =$

If limited on account of midship superstructure.

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck =	$\Delta =$	Depth Correction ...
Summer freeboard =	Tons per inch immersion at summer load water line	Deduction for superstructures ...
Moulded draught (d) =	T =	Sheer correction ...
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =	Deduction = $\frac{\Delta}{40T}$ inches =	Round of Beam correction ...
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships ...
		Other corrections, scantlings, etc. ...
		Summer Freeboard =

### SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ...	...	Tropical Fresh Water Freeboard ...	...
Fresh Water Line " " ...	...	Fresh Water " " ...	...
Tropical Line " " ...	...	Tropical " " ...	...
Winter Line below " " ...	...	Winter " " ...	...
Winter North Atlantic Line " " ...	...	Winter North Atlantic " " ...	...



Edavana

Particulars of fiddley, funnel and ventilator casings:—  
Double funnel casing - fiddley fitted with flanges - steel storm covers (hinged) - also  
protected by 1/4" steel casing 9'-0" high.  
1 - 3'-0" ventilators to steelhold - casing 13'-0" high -  
2 - 3'-0" " " " } casing inside B.R. skylight 9'-0" high -  
1 - 1'-6" " " " }

- 171 -

Particulars of Companionways:—									
Shade deck:-	1	companionway	forward of	No 1 hatch	5'-3" x 4'-0"	fitted with	steel doors.		
"	"	"	abaft	No 2 "	4'-5" x 5'-6"	"	"	teakwood doors.	
"	1	"	"	No 3 "	5'-2" x 6'-5"	"	"	"	
upper deck:-	2	"	forward of	No 1 "	5'-3" x 3'-3"	"	"	"	
"	1	"	abaft	No 2 "	7'-6" x 5'-2"	"	"	"	
"	1	"	"	No 3 "	7'-6" x 5'-2"	"	"	"	

One deck ventilator:- 6 - 1'-0" diameter - coverings 1'-9" high } closed by wooden  
2 - 2'-0" " " " " 2'-6" " plugs  
After deck ventilators:- 2 - 2'-4" " " " 2'-6" " canvas  
1 - 1'-6" " " " 2'-9" " covers  
1 - 1'-0" " " " " "

3 1/2" diameter Swan neck. N.I. pipes - 3'-0" high - fitted in waterway of upper deck -  
wood plugs provided

one cargo door 3'-9" x 5'-9 1/2" on each side of upper tween deck amidships -  
 one cargo door 2'-10" x 2'-5" on each side of No 1 & 2 main tween decks  
 all doors secured by strongbacks -

Two scupperns on each side of upper tween deck  $\bigcirc$  6" x 4"  
All sanitary discharges fitted with storm valves

13" inch diameter side scuttles in upper main houses fitted with C.I. covers -

Guard rails on superstructure decks only - 4 bars - 4'-0" high -

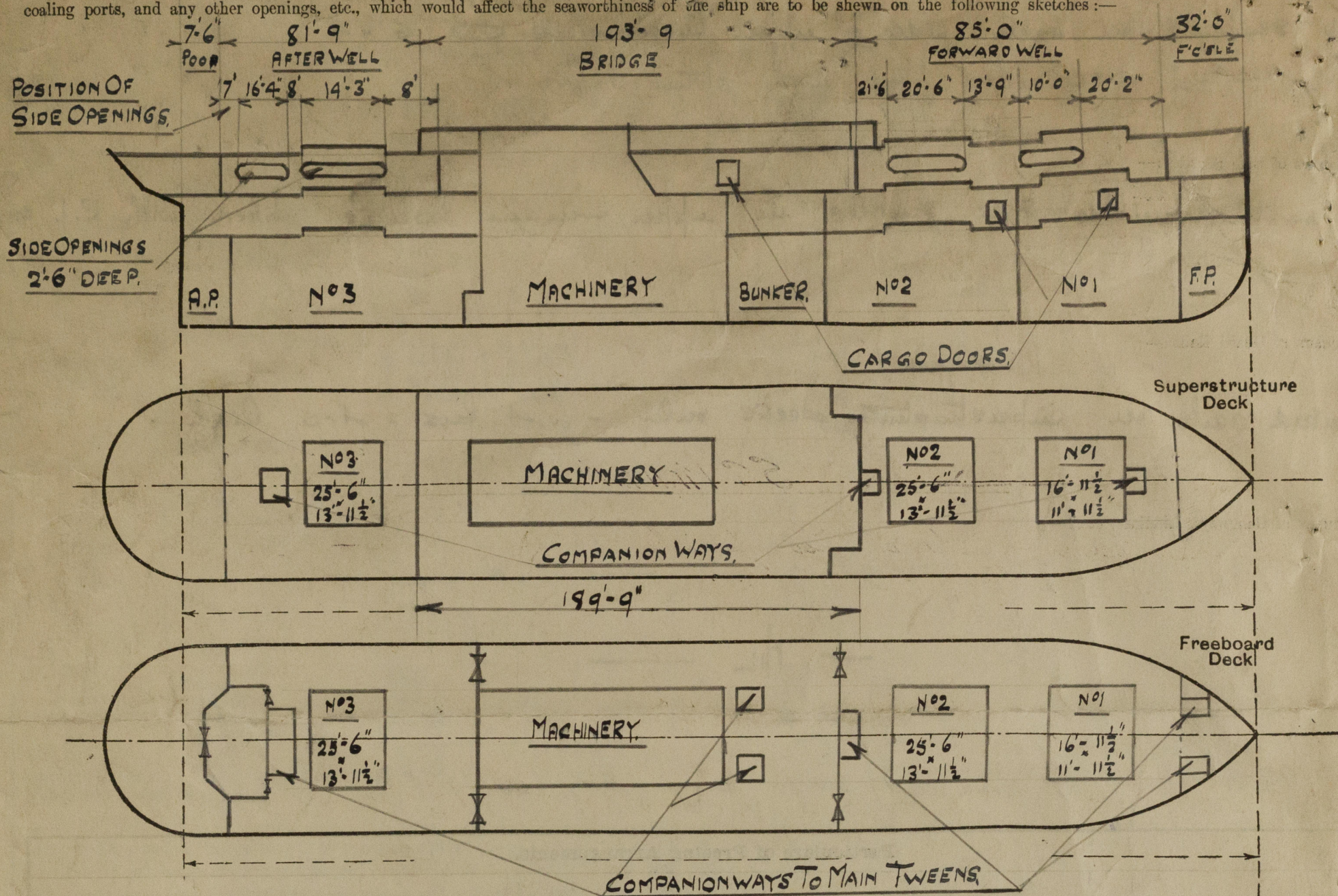
— 11 —

Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	3x3x3/8	1/4.	Stake Plating	30"	NIL.	6'-3" x 9'-0"	NIL.	8'-0"
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead ... ..	- do -	- do -	- do -	- do -	- do -	4'-0" x 9'-0"	- do -	- do -
Bridge, Forward Bulkhead ... ..	- do -	- do -	- do -	- do -	- do -	3'-6" x 9'-0"	- do -	- do -
Forecastle Bulkhead ... ..	- do -	- do -	Stiffened by steel Accommodation Bulkheads.			✓	✓	- do -
Trunk, Aft ... ..								
Trunk, Forward ... ..								
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...								
Exposed Machinery Casings on Super-structure Decks ... ..	None							
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	- do -	- do -	3 x 3 x 3/8	30"	NIL.	4'-9" x 2'-0"	18"	- do -
Deckhouses on Flush Deck Ships ...								

Poop Bulkhead	...	...	Poop Bulkhead:- Two openings closed by stow boards full height.
Raised Quarter Deck Bulkhead	...	...	Bridge after Bulkhead:- ditto -
Bridge, After Bulkhead	...	...	Bridge Forward Bulkhead:- ditto -
Bridge, Forward Bulkhead	...	...	Forecastle Bulkhead open -
Forecastle Bulkhead	...	...	
Exposed Machinery Casings on Foreboard or Raised Quarter Decks	...	...	
Exposed Machinery Casings on Superstructure Decks	...	...	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...	...	
Deckhouses on Flush Deck Ships	...	...	



Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



Freeboard deck sheathed - 3" teak - ✓

State any special features in the construction of the ship:—

Particulars taken during S.S. No. 1 - ✓

Builder's name and yard number.

Names of sister ships

Owners

British India Steam Nav Co.

Fee

Rupees 510/-

Received by me

D. T. Leake