

# AMENDED COMP.

## LLOYD'S REGISTER OF SHIPPING

### SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)

For LONDON OFFICE ONLY

Received .....

Index No. ....

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|   |                 |   |               |                              |   |
|---|-----------------|---|---------------|------------------------------|---|
| Ship's Name<br><b>M/M 10855<br/>KURWINA</b>   | Official Number | Nationality and Port of Registry<br><b>BRITISH<br/>RABAT<br/>Port Moresby</b> | Gross Tonnage | Date of Build<br><b>1960</b> | Port of Survey .....  |
| Moulded Dimensions: Length <b>92.0'</b> Breadth <b>22.0'</b> Depth <b>10.0'</b>           |                 |   |               |                              | Date of Survey <b>3-11-61</b>   |
| Freeboard Length <b>92.0'</b>   |                 |   |               |                              | Surveyor's Signature .....  |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>383.4</b> tons |                 |   |               |                              | Particulars of Classification <b>100 A1 "FOR NEW GUINEA COASTING SERVICE"</b> |
| Coefficient of fineness for use with Tables <b>.780</b>                                   |                 |   |               |                              |   |

| DEPTH FOR FREEBOARD (D).               | DEPTH CORRECTION.   | ROUND OF BEAM CORRECTION.   |
|--|---|---|
| Moulded depth ... .. <b>10.00</b>      | (a) Where D is greater than Table depth (D-Table depth) R = <b>[10.03-6.13] .708 = +2.76'</b> | Moulded Breadth (B) <b>22.00</b>  |
| Stringer plate ... .. <b>.03</b>       | (b) Where D is less than Table depth (if allowed) (Table depth-D) R =                         | Standard Round of Beam = $\frac{B \times 12}{50} = \frac{22 \times 12}{50} = 5.28$  |
| Wood Sheathing on exposed deck         | If restricted by superstructures  | Ship's Round of Beam = <b>6.00</b>  |
| $T \left( \frac{L-S}{L} \right) =$     |   | Difference <b>.72</b>   |
| Depth for Freeboard (D) = <b>10.03</b> |   | Restricted to   |
|  |   | Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S}{L} \right) = \frac{.72}{4} \left[ 1 - \frac{6.14}{38.86} \right] = -.11$ |

## DEDUCTION FOR SUPERSTRUCTURES.

|                            | Mean Covered Length (S) | Equivalent Enclosed Length (S <sub>i</sub> ) | Height    | Height Correction | Effective Length (E) |
|----------------------------|-------------------------|--|-----------|-------------------|----------------------|
| Poop enclosed ... ..       | <b>35.75</b>            | <b>35.75</b>                                 | <b>7'</b> | <b>NIL</b>        | <b>35.75</b>         |
| " overhang ... ..          |                         |  |           |                   |                      |
| R.Q.D. enclosed ... ..     |                         |  |           |                   |                      |
| " overhang ... ..          |                         |  |           |                   |                      |
| Bridge enclosed ... ..     |                         |  |           |                   |                      |
| " overhang aft ... ..      |                         |  |           |                   |                      |
| " overhang forward ... ..  |                         |  |           |                   |                      |
| F'cle enclosed ... ..      |                         |  |           |                   |                      |
| " overhang ... ..          |                         |  |           |                   |                      |
| Trunk aft ... ..           |                         |  |           |                   |                      |
| " forward ... ..           |                         |  |           |                   |                      |
| Tonnage opening aft ... .. |                         |  |           |                   |                      |
| " " forward ... ..         |                         |  |           |                   |                      |
| Total ... ..               | <b>35.75</b>            | <b>35.75</b>                                 |           |                   | <b>35.75</b>         |

Standard Height of Superstructure **6.00**

" " R.Q.D. ....

Deduction for complete superstructure **15.2**

Percentage covered  $\frac{S}{L} =$  } **38.86**

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

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

Percentage from Table, Line A. = **22.53** LESS **5** = **17.53**  
(corrected for absence of forecabin (if required))Percentage from Table, Line B.  
(corrected for absence of forecabin (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **15.2 x .1753 = -2.66**

## SHEER CORRECTION.

| Station                         | Standard Ordinate | S M      | Product       | Actual Ordinate | Effective Ordinate | S M      | Product       |
|---------------------------------|-------------------|----------|---------------|-----------------|--------------------|----------|---------------|
| A.P. ... ..                     | <b>19.20</b>      | <b>1</b> | <b>19.20</b>  | <b>20.94</b>    | <b>20.94</b>       | <b>1</b> | <b>20.94</b>  |
| $\frac{1}{2}L$ from A.P. ... .. | <b>8.54</b>       | <b>4</b> | <b>34.16</b>  | <b>9.75</b>     | <b>9.75</b>        | <b>4</b> | <b>39.00</b>  |
| $\frac{3}{8}L$ " ... ..         | <b>2.11</b>       | <b>2</b> | <b>4.22</b>   | <b>3.00</b>     | <b>3.00</b>        | <b>2</b> | <b>6.00</b>   |
| Amidships ... ..                | <b>0</b>          | <b>4</b> | <b>0</b>      | <b>0</b>        | <b>0</b>           | <b>4</b> | <b>0</b>      |
| $\frac{3}{8}L$ from F.P. ... .. | <b>4.22</b>       | <b>2</b> | <b>8.44</b>   | <b>4.63</b>     | <b>4.63</b>        | <b>2</b> | <b>9.26</b>   |
| $\frac{1}{2}L$ " ... ..         | <b>17.09</b>      | <b>4</b> | <b>68.36</b>  | <b>19.00</b>    | <b>19.00</b>       | <b>4</b> | <b>76.00</b>  |
| F.P. ... ..                     | <b>38.40</b>      | <b>1</b> | <b>38.40</b>  | <b>40.69</b>    | <b>40.69</b>       | <b>1</b> | <b>40.69</b>  |
| Total ... ..                    |                   |          | <b>172.78</b> |                 |                    |          | <b>191.89</b> |

Mean actual sheer aft =

Mean standard sheer aft =

} **EXCESS**

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

" " aft of " =

} **NIL**

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{[19.11 + 1.85] \left[ .75 - \frac{1.46}{1.36} \right]}{2.41} = -1.62$

If limited on account of midship superstructure. **YES - NO ALLOWANCE.**

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

## Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **10.03**

Summer freeboard = **2.52**

Moulded draught (d) = **7.51**

Keel allowance =

Extreme draught =

Deduction for Tropical freeboard and addition for = **1.88**

Winter freeboard =  $\frac{d}{4}$  inches = **2"**

Addition for Winter North Atlantic Freeboard (if required) =

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ 

Tons per inch immersion at summer load water line

T =

Deduction =  $\frac{\Delta}{40 T}$  inches $\frac{1}{4} = 1.88 = 2"$ 

## TABULAR FREEBOARD corrected for Flush Deck (if required).

Correction for coefficient  $\frac{.78 + .68}{1.36} = \frac{1.46}{1.36}$ Depth Correction ... .. **2.76**Deduction for superstructures ... .. **2.66**Sheer correction ... .. **-**Round of Beam correction ... .. **.11**Correction for Thickness of Deck amidships ... .. **-**Other corrections, scantlings, etc. **1.2**CORRESPOND TO A SUMMER MLD. DRAUGHT OF **7.50'** [ACTUAL **7.51'**]**23.14****2.77****+ 20.37**Summer Freeboard = **30.25**

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

Tropical Fresh Water Line above Centre of Disc ... **A**

Fresh Water Line " " ... **2**

Tropical Line " " ... **2**

Winter Line below " " ... **NOT ASSIGNED**

Winter North Atlantic Line " " ... **NOT ASSIGNED**

Tropical Fresh Water Freeboard **2.76**

Fresh Water " **2.76**

Tropical " **2.76**

Winter " **NOT ASSIGNED**

Winter North Atlantic " **NOT ASSIGNED**

FOR SERVICE.

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