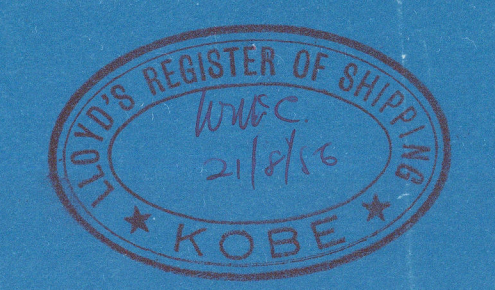


STEEL S.S. STEAM TUG "JAGOCHA"

AS BUILT



RUDDER PARTICULARS

LENGTH BETWEEN PERPENDICULARS 29'900 DESIGNED LOAD DRAUGHT 2'650
SEA SPEED (FREE RUNNING) 9 1/4 KNOTS
TOTAL RUDDER AREA $A = 3.601$
DISTANCE OF CENTRE OF GRAVITY OF AREA (A) FROM THE CENTRE LINE OF THE STOCK $D = 0.333$
RUDDER AREA ABOARD THE CENTRE OF STOCK $A' = 2.979$
DISTANCE OF CENTRE OF GRAVITY OF AREA (A') FROM THE CENTRE LINE OF THE STOCK $D' = 0.5925$
 $\frac{3.601}{2.979 \times 2.65} = \frac{1}{22}$

MATERIAL

RUDDER STOCK TO BE FORGED STEEL AND MATERIAL TEST TO BE CARRIED OUT IN ACCORDANCE WITH LLOYD'S RULE

NOTES

- THE SHELL OF RUDDER TO BE WATERTIGHT.
- INSIDE OF RUDDER TO BE PAINTED BITUMASTIC SOLUTION.
- STAR MARKED (*) SIZES ARE APPROXIMATE SIZES AND TO BE DECIDED AT MOUND LOFT
- ENDS OF TONGUES & STOPS TO BE ROUNDED.

| DEGREE OF FINISHING | |
|---------------------|----------------|
| ~ | SMOOTH SURFACE |
| ▽ | ROUGH FINISH |
| ▽▽ | MEDIUM FINISH |
| ▽▽▽ | FINE FINISH |

| NO. OF PARTS | NAME OF PART | MATERIAL | UNIT WEIGHT KG | REMARK |
|--------------|-------------------------|----------------|------------------|-----------------|
| 24 | 18 SETTING BOLT | BRASS | | |
| 2 | 17 COVER PLATE | MILD STEEL | | WITH BOLT & NUT |
| 4 | 16 ZINC PLATE | ZINC | | |
| 2 | 15 TPLT PIN | MILD STEEL | | |
| 2 | 14 BOLT & NUT | MILD STEEL | | |
| 1 | 13 LOCKING PIECE | MILD STEEL | | |
| 1 | 12 NUT | FORGED STEEL | | |
| 1 | 11 EYE BOLT | FORGED STEEL | | |
| 1 | 10 SLEEVE ON STOCK | BRONZE (BC 30) | | |
| 2 | 9 1/2" DRAIN PLUG | BRASS | | |
| 1 | 8 SLEEVE ON PINTLE | BRONZE (BC 30) | | |
| 1 | 7 BOTTOM PIECE & PINTLE | FORGED STEEL | | |
| 1 | 6 RUDDER FRONT | STEEL PIPE | | |
| 6 | 5 8" SPLIT PIN | MILD STEEL | | |
| 6 | 4 COUPLING BOLT & NUT | FORGED STEEL | | |
| 1 | 3 MAIN PIECE | MILD STEEL | | |
| 1 | 2 RUDDER LOWER STOCK | FORGED STEEL | 0.23% MAX CARBON | |
| 1 | 1 RUDDER UPPER STOCK | FORGED STEEL | 0.23% MAX CARBON | |

| NO. OF PARTS | NAME OF PART | MATERIAL | UNIT WEIGHT KG | REMARK |
|--------------|--------------|----------|----------------|--------|
|--------------|--------------|----------|----------------|--------|

ЯГОЧА 9% СУХОИМНОСТ СССР

RUDDER

SCALE No. 1/6 1/5 1/4

HITACHI SHIPBUILDING & ENGINEERING CO. LTD
MUKAISHIMA SHIPYARD
SHIP DESIGNING SECTION

DRAWN BY
CHECKED BY
REVIEWED BY
CHIEF OF SECT.

MANUF NO
CODE NO

SHEET NO
DRAWING NO

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