



LIFTING EYE BOLT  
SCALE 1" TO 1 FT.

7 B I -  
INSIDE RUDDER SPACE NOT TO BE PACKED  
& SUBJECTED TO WATER TEST.  
(TEST HEAD 15 1/2%)

PARTICULARS :-		
SEA SPEED		13 3/4 KNOTS
RUDDER AREA (A)		137.44 SQ. FT.
D		3.12 FT.
A x D		428.81
TOTAL RUDDER AREA		185.44 SQ. FT.
DIA OF RUDDER HEAD	(RULE ACTUAL	10 3/8 DIA. 11" DIA.
SUBJECT	MATERIAL	WEIGHT
RUDDER MAIN PIECE	CAST STEEL	8.70 TONS
FRONT "	"	1.70
EDGE "	"	.30
STOCK	FORGED STEEL	3.60
PLATE & ETC.	MILD STEEL	3.30
PINTLES & ETC.	FORGED STEEL	.27
TOTAL WEIGHT OF RUDDER		17.87 TONS
STERN FRAME	CAST STEEL	15.40 TONS

SECTION THROUGH  
CL OF COUPLING BOLT  
SCALE 1" = 1 FT.

SECTION AT PINTLE  
LOOKING AFT. WARD  
SCALE 1/2" = 1 FT.

SECTION 22 FT. W.L.  
SCALE 1" = 1 FT.

SECTION Z-Z  
SCALE 1/2" = 1 FT.

STOPPER  
SECTION R-R

DETAILS OF GUDGEONS  
SCALE 1 1/2" = 1 FT.

SECTION Y-Y  
LOOKING AFT. WARD

BOTTOM CAST STEEL ARM  
SCALE 1" = 1 FOOT

SECTION X-X

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

RUDDER POST  
LOOKING FORWARD

PROPELLER POST  
LOOKING FORWARD

SECTION I-I

SECTION II-II

SECTION III-III

SECTION IV-IV

M.V. "NICHIO MARU".  
Nagasaki Report No. 1955.

S.N. 551  
M.S. "NICHIO MARU"  
STERN FRAME  
& RUDDER  
(FINISHED PLAN.)  
SCALE 1/2 INCH TO 1 FT.



M.V. "NICHIO MARU".

Nagasaki Report No.1955.

S.No 551

M.S. "NICHIO-MARU"

STERN FRAME  
& RUDDER

(FINISHED PLAN.)

SCALE 1/2 INCH TO 1 FT



© 2020

Lloyd's Register  
Foundation