

RESTRICTED

STEERING GEAR

Occasion:

Date:

1. **Positional Checks**

Applied Rudder Demand (Bridge Repeater)	Bridge Repeater	MCR Repeater	ASP Repeater	ASP Mech Indicator
MIDSHIP				
5°STBD				
10°				
15°				
20°				
25				
30				
35				
30				
25				
20				
15				
10				
5				
MIDSHIP				
5°PORT				
10				
15				
20				
25				
30				
35				
30				
25				
20				
15				
10				
5				
MIDSHIP				

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HARBOUR TRIALS – STEERING GEAR

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2. **Control Position Bridge - Follow-up Mode Checks**

Control Sys In Use	Pump In Use	Time In Seconds					
		MID TO 30 P	35 P TO 30 S	35 S TO 30 P	35 P TO MID	MID TO 30 S	35 S TO MID
STBD	BOTH						
	STBD						
	PORT						
PORT	BOTH						
	STBD						
	PORT						

3. **Control Position-ASP**

Control Sys In Use	Pump In Use	Time In Seconds					
		Mid To 35 P	35 P TO MID	MID TO 35 S	35 S TO 30 P	35 P TO 30 S	35 S TO MID
JOYSTICK	PORT						
JOYSTICK	STBD						
JOYSTICK	BOTH						

Note:- Permissible limit (i) Single pump operation - seconds
(ii) Two pumps in operation - seconds

4. **Emergency Steering Position-ASP**

	MID – 10 P	10 P – 10 S	10 S - MID
TURNS			

Note: Permissible limit one degree in 04 turns of wheel.

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5. **Safety Device Checks**

Sr	Description	Units	Design Value	Port		Stbd	
				Actual Value	Rem	Actual Value	Rem
(a)	Oil tank level low	---	¼ level				
(b)	Oil temp high	°C	60°				
(c)	Power failure	---	---				
(d)	Feedback failure	---	---				
	BRIDGE						
(e)	Motor overload indication	---	---				
(f)	415 V failure indication	---	---				
(g)	Control failure fault indication	---	---				
(h)	Manual control indication	---	---				

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6. Steering Gear Pumps (02)

Sr	Description	Remarks	
		No.1	No. 2
(a)	Condition of SV mounts of pumps & motor		
(b)	Condition of suction/discharge compensator		
(c)	Securing of the suction/discharge pipe		
(d)	Abnormal noise		
(e)	Excessive vibration		
(f)	Gland leak		
(g)	Pressure fluctuation		
(h)	Suction pressure (kg/cm ²)		
(j)	Discharge pressure (kg/cm ²)		
(k)	Start/stop from local and remote		
(l)	Valves and gauges provided with tallies		
(m)	Operating instructions displayed for pump		
(n)	Pipe painting as per color standard		

7. SPM Level Checks

Ser	Description	No. 1	No. 2
(a)	Motor F/E 6312		
(b)	Motor D/E 6310		

8. Overall Vibration

Ser	Description	No. 1			No. 2		
		V	A	H	V	A	H
(a)	Motor F/E						
(b)	Motor D/E						
(c)	Pump D/E						
(d)	Pump F/E						

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