INDIAN REGISTER OF SHIPPING

	VEY RECOMME		
SURVEY STATION:	Mumbai (SIS)	Da	ate: 04 04 2019
	MACC.		- 1
Surveys.:- MARD	NO305 @ BH	rod bundes	Sealifal -
	CSHM - Re	sien Boat)	•
			V
Recommendations:			
As per the	OAP- Tolland	seatoral	Ctest can I out
for the above s	aid adopat	3-305%	
			ge prop (65 LP1)
0 60	151 h d	= 1=1=0 = 0 (ps with Analfor
1911 A (b) 2100	mal aug V Start	s suse prop	123 9801) 127 59 10
satisfreting	(1 1 1	· · · · · · · · · · · · · · · · · · ·	ah C.1.11
2) fuel Oil st	pstan total of	DIPP VONI-d	Swbremy.
2) Pertimunue	s of that a c	BM- (SLA	that rout) as det
4) Total of N	lavegation Es	Julpment -	all golds as degr
m see ma	replif & GP	& Compes.	ven led satisficant
d) Elichial	pahnel doral	ford in ord	es
a Endusance	other speed	tool mance	every trol Tyring
arche toa	I steer to	al Coschet	op Atal & Astem)
tod	7 4		
li Serv			
M Asl	ford salving	A. Roma	+ endorsed.
∠W, , \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Tower Salving	my, we pro	1 0000001
·····	·····/		
	······		
			*
	/		
	/		
/s.	Sh.	CCM PANTORAL	Holean SHIPCE
Signatures	Surveyo	or/s	Surveyee TUMBA

Form No: SRS (Rev.1)



TEST & TRIALS PROTOCOL

YARD NO: 305



6.0 M SNAPPER 22

OWNER

Savan Traders & Company

MANUFACTURER

SHM SHIPCARE

CLASS

IRS



Sr No.	Index	Date
	Test & Trials	
1	Machinery/ Electrical Items Verification	04/04/2019
2	Anchoring & Mooring Trials	04/04/2019
3	Speed Trial	04/04/2019
4	Endurance Trial	04/04/2019
5	Fuel consumption	04/04/2019
6	Maneuvering Trials	04/04/2019



PRINCIPAL PARTICULARS

6.0 M FAST SPEED BOAT (YARD - 305)

Length Overall

- 7.00 mtrs

Length Hull

6.00 mtrs

Breadth

2.10 mtrs

Depth

0.90 mtrs

Draft

- 0.35 mtrs

Speed Max.

12 Knots

Construction

- Fibreglass

Outboard

- Twin engine 60 HP OBM.

Endurance

- 20 Nm

Carrying Capacity

06 person including crew

Classification Society

IRS

Fuel Tank Capacity

2X 52 Ltr



MACHINERY/ ELECTRICAL ITEMS VERIFICATION

Following machinery basin trials to be completed prior to commencing Sea Trials:-

	Machinery/ Eqpt	Remarks
A	Main engines following to be verified. i. Remote and local manual starting. ii. Dead man switch.	60 HP TWIN OBM Model no. Tohatsu Sr. No. Port 002834AG Stbd 002833AG
Ъ	Steering system: Hydraulic steering	Satisfactory
c	Main Engine gauges	Satisfactory
D	Fuel system: Analog gauges & dipstick	Satisfactory
E	Bilge System 1. 65 LPH Manual bilge pump 2. 125 LPM Electric Bilge pump	Satisfactory
g	Navigation Equipment 1. All round Light 2. Side light (P & S) 3. Search Light	Satisfactory

SHM SHIPCARE SHIP

SHM SHIPCARE

ANCHORING & MOORING TRIALS

Anchoring Trial- To check operation of anchor and cable arrangement on boards the boat by manually lowering the anchor.

Mooring Trial - Engine run ahead in full throttle with boat securely moored. The trials carried out for half an hour duration and it is to ensure that the installed machinery operation is satisfactory.

Note if any structural damage to mooring points / fittings

Location: Ghodbandar, Thane
Date of Trials: 04/04/2019

Result: Satisfactory

SHM SHIPCARE

SHM SHIPCARE

Page 5

SPEED TRIALS

1. Speed Trials:

- 1.1 Date and time of commencement of Trials: 04/04/2019
- 1.2 Persons attending the Trials. Yard: Mr. Abdeali Netarwala IRS: Mr. Santosh M. Panchal
- 1.3 Boat Condition: Full Load Person on board: 8
- 1.4 Prevailing weather conditions; and site of trials: Calm weather
- 1.5 Location of Trial: Ghodbandar
- 1.6 Depth of water at trial location: 8-12 m
- 1.7 Draught: FWD: 0.2 m AFT: 0.35 m

1.8	Speed	Trials	at	12	knots	in	full	load	condition-

	Vessel Speed		Engine Speed		
Run No.	Directi on	Over ground (01 NM)	Port	STBD	
		(by GPS)	(RPM)	(RPM)	
1 st	W	26.8	5000	5000	
2^{nd}	Α	24	5000	5000	
3rd	W	27.1	5000	5000	
4th	A	24.2	5000	5000	

AVERAGE SPEED RECORDED BY GPS: 25.52 Knots

Date: 04/04/2019

SHM SHIPCARE

IRS

ENDURANCE TRIALS

Purpose

To check engines and steering system performance during endurance trials of vessel.

1. No. of persons on board: 08

2. Draught: Fwd- 0.20 M, AFT- 0.35 M

3. Trial Commenced: 10:00 hrs, Trial Completed 12:00 hrs

Following parameters of engine recorded:

Sr No.	Time	RPM PORT	RPM STBD	Speed in Knots
1	10:00	1000	1000	4.8
2	10:15	2000	2000	6.8
3	10:30	3000	3000	11.2
4	11:00	4000	4000	19.5
5	11:30	5000	5000	27.2
6	12:00	5000	5000	27.0

Result: Satisfactory

Date: 04/04/2019

SHM SHIPCARE

IRS

FUEL CONSUMPTION TRIALS

1. Fuel consumption trials at cruising speed @ 12 Knots:

1.1 Date of Trials.

: 04/04/2019

1.2 Location of Trial

: Ghodbandar

1.3 Persons attending the Trials.

Yard: Mr. Abdeali Netarwala

IRS: Mr. Santosh M. Panchal

1.4 RPM of Engines: 3000 (port); 3000 (stbd)

Time interval	Vessel Speed (in knots)	Engine Speed (in RPM)		bridge congo	
	By GPS	Port	Stbd	Port	Stbd
12:30 hrs	12 Kn	3000	3000	16.8	16.8
13:00 hrs	12 Kn	3000	3000	10.5	9.45
Fuel consumption				6.3 ltrs	7.35 ltrs

Readings of fuel rate gauge provided in the wheel house was used to determine the fuel consumption. The vessel was run at an average engine rpm of 3000 for about half an hour to calculate approximately the endurance limit of the vessel as detailed below.

- i) Average speed of 12 knots
- ii) Average of fuel rate of 13.65x2 = 27.3 LPH (Liters Per Hour) for both OBM observed in the wheel house console at engine rpm of 3000.
- iii) For 2 hours operation @ 12 knots,
 - → The total engine FO consumption for 1 hrs = 27.3 liters
 - → Therefore, vessel's total Fuel oil consumption @ 12 knots for 2 hrs = 27.3 x 2 = 54.6 (Both OBM)
- iv) Fuel oil capacity of F.O tanks provided is 52 liters per tank, making Total provided FO capacity = 104 liters
- v) Provided total tank capacity exceeds 2 hours endurance @ 12 knots requirement.

Date: 04/04/2019

SHM SHIPCARE

MANEUVERING TRIALS

Turning Circle Trials:

As a continuation of full power sea trials the following trials to be carried out. The boat shall be put hard over in turn to determine the turning circles to Port and to Starboard. The time require to complete the circle and the diameter of the turns (in boat length) to be recorded.

	Circle Time	Circle Diameter (Boat Length)	Speed
Hard Starboard	17 sec.	2.5 boat length	6 knots
Hard Port	15.7 sec.	2.5 boat length	6 knots

Crash Stop:

At normal cruising, the vessel is moved forward at a constant speed. During an emergency, the vessel must be stopped at the shortest possible time and distance so as to avoid a collision.

Following parameter recorded:

Ship Speed	26 knots
Wind Speed	6-8 knots
Time from control movement until vessel	8 sec
start astern to stop	
Distance Travelled	2.8 boat length

Astern Trials:

Astern trial carried out at 2000 RPM Running for 5 minutes and found satisfactory

Result:

Date: 04/04/2019

SHM SHIPCARE

SHM SHIPCARE

Page 9