

SMO

VIKING

Platform Supply Vessel





SMO VIKING

SAMUNDAR MANTHAN OFFSHORE INDIA PVT LTD

VESSEL DETAILS

Vessel Name	SMO VIKING
IMO Number	9312119
Hull Number	31
Place of Build	Norway

KEY VESSEL FEATURES

Methanol Tank	1 x 70m ³
PPD	2 x 70m ³
Fire Fighter	1
Dynamic Position	2

GENERAL

Name	SMO VIKING
Design	UT 755 L
Built by	Breivik Construction AS
Yard No	31
Built	2004
IMO No	9312119
Call Sign	VUAV
MMSI	412001897
Flag	INDIA
Port of Registry	MUMBAI

DIMENSIONS

LOA LPP Breadth Depth	72.0m
Main Deck Draught (Summer) Height (Keel to Antenna) Deadweight (Summer) Displacement (Summer) GRT NRT	66.8m 16.0m 7.0m 5.82m 32.0m
	3,295 T 4962T 2,152 T 1,072 T

ACCOMMODATION

Total	28 Persons
Cabins	6 x single , 5 x 2 men , 3 x 4 men

CLASS

RINA	IAI , SF ,E0 , DYNDOSDPI , FIFI1 , CLEAN , DK(+) HL (2.5) ,TMON
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MACHINERY AND PROPULSION

System	Direct Drive Diesel
Main Engines	2 x Rolls-Royce Bergen KRMB-9,2,005kw / 825rpm
Main Gear	2 x Rolls-Royce Marine Type 600 AGSC-KP500 ND 2 x Nogva Scania D1 12 45M 285kw Stamford Generator Type434F, 440V /250kw
Aux. Generators	
Shaft Generators	2 x Stamford Type UCM734-H2 440V / 1,280kw
Emergency Generator	1 x Nogva John Deere 4045 TFM-50 Stamford Generator Type UCF274F 48kw
Main Propeller	2 x Controllable pitch Propellers Rolls-Royce, diam 2,900mm, 4 blades
Bow Tunnel Thrusters	2 x Rolls-Royce Marine 150TV 590 Kw
Stern Thruster	2 x Rolls Royce Marine 590 Kw

DECK MACHINERY

Mooring Winches Mooring Winches / Windlass Deck Crane	2 x 10T Port/Starboard Aft 2 x 16.5T Port/Starboard Forward 1 x Knuckle beam SWL 3T@16m
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DECK CAPACITY

Deck Area	580 m ² (52.3m x 13.0m)
Max Payload	5 T/m ²
Max Deck Cargo Weight	1,600 T
Cargo Ril Height	2.6m
Reefer Rail Height	6 x 220v / 10 x 440v

CARGO PUMPS

Fuel Oil	1 x Centrifugal Pump , 2 speed 200m ³ /h @90m / 120m ³ /h @22m
Fresh Water	1 x Centrifugal Pump , 2 speed 200m ³ /h @90m / 120m ³ /h @22m
Mud	2 x Rotary displacement pump 75m ³ /h @ 180m Frequency drive
Brine	1 x Rotary displacement pump 75m ³ /h @180m 1-speed
Base Oil	1 x Centrifugal Pump, 1-speed 150m ³ /h @90m
Ballast/Drill Water	1 x Centrifugal Pump , 1-speed 150m ³ /h @90m
Dry Bulk	2 x 25.6 m ³ /h @5.6 bar (BHS Compressor 23m ³ /min , 5.6 bar)
Methanol PPO	2 x Centrifugal Pump , 1-speed 4 x Centrifugal Pump , 1-speed

PERFORMANCE

Max Speed	14.8 kts 18.0 m ³ /day
Economical Speed	10.0 kts 8.5 m ³ /day
DP	5 - 8 m ³ /day
Stand-by In Port	3 - 5 m ³ /day 1.0 m ³ /day

DYNAMIC POSITIONING SYSTEM

System ERN	DP2 - NAVISNAVDP4000 82.82.66
Reference Systems	1 x DGPS Kongsberg Seatex DPS 1 x DGPS/DGNSS Kongsberg Seatex DPS 1 x Fanbeam MDL Laser MK4.2

TANK CAPACITIES

TANK NO.	TANK ID	CONTENTS	VOLUME 98% NET (m3)	WEIGHT 98%NET							
				WATER BALLAST (WB)	DRILL WATER	FRESH WATER (FW)	FUEL OIL (FO)	BASE OIL (BO)	MUD	BRINE (BRI)	CEMENT (CEM)
S.G. (MT/m3)				1.025	1.000	1.000	0.900	0.830	2.500	2.500	2.400
1	FOREPEAK TK	WB/DW	106.0	108.7	106.0						
DIA	FOREPEAK TK 2	WB/DW	66.8	68.5	66.8						
2	DB/WING TK 1 SB	FW	123.5		123.5						
3	DB/WING TK 1 PS	FW	110.3		110.3						
4	DB/WING TK 2 SB	WB/DW	69.5	71.2	69.5						
5	DB/WING TK 2 PS	WB/DW	50.7	52.0	50.7						
6	DB/WING TK 3 SB	FO	161.3			145.2					
7	DB/WING TK 3 PS	FO	149.1			134.2					
8	DB/WING TK 4 SB	FO	170.5			153.5					
9	DB/WING TK 4 PS	FO	170.5			153.5					
10	DB/WING TK 5 SB	BO	104.1					86.4			
11	DB/WING TK 5 PS	BO	104.1					86.4			
12	DB/WING TK 6 SB	FO	138.6			124.7					
13	DB/WING TK 6 PS	FO	138.6			124.7					
14	WING TK 7 SB	FW	68.0		68.0						
15	WING TK 7 PS	FW	68.0		68.0						
16	WING TK 8 SB	FW	34.1		34.1						
17	WING TK 8 PS	FW	34.1		34.1						
18	DB TK 7 CENTER	FW	22.9		22.9						
19	TK 1 SB	MUD/BRI/WB/DW	99.3	101.8	99.3					248.3	
20	TK 1 PS	MUD/BRI/WB/DW	99.3	101.8	99.3					248.3	
21	TK 2 SB	MUD/BRI/WB/DW	99.2	101.7	99.2					248.0	
21A	TK 2 PS	MUD/BRI	99.2							248.0	
22	TK 3 SB	MUD/BRI/WB/DW	99.2	101.7	99.2					248.0	
22A	TK 3 PS	MUD	99.2						248.0		
23	TK 4 SB	MUD	99.2						248.0		
24	TK 4 PS	MUD	99.2						248.0		
25	TK 5 SB	MUD	99.2						248.0		
26	TK 5 PS	MUD	99.2						248.0		
27	STAB TK 1	FW/WB/DW	202.1	207.2	202.1	202.1					
27A	STAB TK 2	FW/WB/DW	173.2	177.5	173.2	173.2					
28	STAB TK 3	WB/DW	115.0	117.9	115.0						
29	STAB TK 4		170.3	174.6	170.3						
44	CEMENT TK 1	CEM	64.1								153.8
45	CEMENT TK 2	CEM	64.1								153.8
45A	MUD TK 3 CENTER	MUD	64.1						160.3		
46	CEMENT TK 4	CEM	64.1								153.8
47	CEMENT TK 5	CEM	64.1								153.8
TOTAL WIGHT (MT, 98%NET)				1,384.	1,350.	836.2	835.7	172.8	1,400.	1,240.	615.4
TOTAL VOLUME (m3, 98%NET)				1,350.	1,350.	836.2	928.6	208.2	560.1	496.2	256.4