

GENERAL SPECIFICATION

Port of Registry Flag Year Built Hull No Builder Designer Classification Notation	: Astrakhan : Russia : 2015 : H383 : Keppel Nantong Shipyard, China : Marine Technology Development Pte. Ltd. : Russian Maritime Register of Shipping : KM (*) ARC4, AUT1-ICS, DYNPOS-2, FF3WS, SUPPLY VESSEL	ACCOMMODATION		PROPULSION SYSTEM	
		16 x 1 Man Cabin	: 16	Main Engine (Wartsila)	: 2 x 3650 BHP, Diesel engine @
		4 x 2 Men Cabin	: 8		1000 rpm c/w Reduction gear
		Total POB : 24 Men		Propeller	: 2 x CPP@230mm/rpm speed
				Steering Gear	: 2 x Independent Electro. Hyd. Sys
Hospital Room		: 1 x Bed, 1 x Treatment Table	Bow Thruster	: 2 x CPP@700kW(Elect. Motor)	
[FULLY AIR - CONDITIONED]			Stern Thruster	: 1 x CPP@700kW(Elect. Motor)	
			Bollard Pull	: 61 Tons (approx.) @ 100% MCR	
			VESSEL SPEED		
			Maximum Speed (100%)	: 14.0 Knots	
			Service Speed (85%)	: 13.5 Knots	
			Economical Speed (75%)	: 13.0 Knots	

PRINCIPAL PARTICULARS		DECK EQUIPMENT		ELECTRIC POWER GENERATION	
Length Overall	: 81.11 m	Tugger Winch	: 2 x 200m x 25mm dia. wire	Main Generators	: 2 x 450ekW@380V/3Ph/50Hz
Breadth Moulded	: 16.50 m	Capstan	: 2 x 10 Tons x 0~15m/min	Emergency/ Harbor Generators	: 1 x 350ekW@380V/3Ph/50Hz
Depth Moulded	: 6.20 m	Deck Crane (Fixed Boom)	: 1 x 12 Tons (SWL) @10m radius	Shaft Alternators	: 2 x 1600ekW@380V/3Ph/50Hz
Summer Draft	: 3.80 m	Accommodation Ladder	: 2 x 6.7m(L) x 0.6m(W) c/w safety net (Elect. Driven)		
Gross Tonnage	: 2888				
Net Tonnage	: 866	ANCHOR MOORING SYSTEM		DYNAMIC POSITIONNING SYSTEM	
Deadweight (Summer Draft)	: 1280 Tons (approx.)	Anchor Type	: High Holding Power Anchor	DP-2 System	: 1 set
Free Deck Space	: 420 m ² (approx.)	Anchor Capacity	: 2 x 1760kg @ 410kN proof load	Maker	: Kongsberg
Deck Cargo Capacity	: 500 Tons	Anchor Chains	: 2 x 632.5mL @ (27.5m/shackle)		
Deck Strength	: 5 Tons/m ²	Spare Anchor	: 1 x 1750kg @ 408kN proof load		

SAFETY EQUIPMENT		TOWING & ANCHOR HANDLING WINCH		NAVIGATION & COMMUNICATION EQUIPMENT	
Liferafts	: 4 x 25men	Anchor Handling and	: Duoble drum, Waterfall type	GMDSS (Area A1,A2,A3)	: 1 complete set
Rescue Boat	: 1 x 15men FRB c/w pivoting davit.	Towing Winch	(Electro. Hyd. Sys)	DGPS	: 2 units
Scrambling Net	: 2 set	- Brake Holding Capacity	: 200 Tons @ 1st layer (static)	Gyro Compass	: 3 units
Remarks: Vessel safety equipment & Firemen's outfits are accordance to		- Drum Capacity	: 1 x 1000m x 58mm dia. Wire	Satellite Compass	: 1 set
FF3WS, SOLAS & Flag State requirement		- Winch Load Capacity	: 120 Tons @ 8m/min. at 1 st layer	Magnetic Compass	: 1 set
FIRE FIGHTING & ANTI POLLUTION EQUIPMENT		Storage Drum Capacity	: 1 x 1000m x 58mm dia. wire	Radar (ARPA)	: 2 units (1 x S-Band, 1 x X-Band)
FiFi Classification	: FF3WS	- Rated Pull	: 5 Tons x 0~30m/min. at 1 st layer	BNWAS	: 1 set
Fire Pumps Capacity	: 2 x 1600m ³ /hr	- Brake Holding	: 10 Tons at 1 st layer (static)	Echo Sounder	: 1 unit
Fire Monitor Capacity	: 1200m ³ /hr water & 300m ³ /hr foam	Towing Pin / Kamfork	: 2 x 160 Tons/ 300 Tons BP (SWL)	Speed Log	: 1 unit
Oil Dispersant System	: 2 x 10m Dispersant Boom	Stern Roller	: 3.50m(L) x 1.6m dia. @200T(SWL)	Navtex Receiver	: 1 unit
Remarks: Machinery spaces, accommodation spaces and cabins are fitted				AIS	: 1 unit
with heat, smoke, fire detector and complied with SOLAS requirement.				SART	: 1 set
DISCHARGE PUMPS CAPACITIES		CARGO / TANK CAPACITIES		VDR	: 1 set
Fuel Oil (Cargo)	: 1 x 150m ³ /hr @ 90m head	Bulk Tank Compressor	: 2 x 29m ³ /min @ 6bar	ECDIS interface to AutoPilot	: 1 set, 1 unit of Auto Pilot
Fresh Water (Cargo)	: 2 x 70m ³ /hr @ 90m head	Bulk Tank Dryer	: 2 x 30m ³ /min @ 5.6bar	Satellite Communication	: 1 set
Drill Water	: 1 x 125m ³ /hr @ 90m head	Oily Water Separator	: 1 x 1m ³ /hr	Satellite Data Transmission	: 1 set x Inmarsat System
Technical Water	: 1 x 70m ³ /hr @ 9bar	Sewage Treatment	: 25men/day	CCTV	: 1 set
Liquid Mud	: 1 x 75m ³ /hr @ 88m head	Water Makers	: 1 x 12m ³ /day	Intercommunication System	: 1 set
Base Oil	: 2 x 150m ³ /hr @ 90m head			PA System	: 1 set
Cargo Sewage	: 1 x 70m ³ /hr @ 90m head			Search Light	: 4 set

DW/ BW Tanks (m³)			Fuel Oil Tanks (m³)			Potable Fresh Water Tanks (m³)			Dry Bulk Tanks (m³)			Cargo Sewage Tanks (m³)			Sludge Tanks (m³)				
1	TK1.C	34.00	1	SETTK.P	25.40	1	TK1.C	30.40	1	TK1.C	35.00	1	TK1.P	115.20	1	TK.P	15.10		
2	TK2.P	103.80	2	SETTK.S	25.40	2	TK2.P	46.60	2	TK2.C	35.00	2	TK1.S	115.20	TOTAL: 15.10				
3	TK2.S	103.80	3	DAYTK.P	19.10	3	TK2.S	46.60	3	TK3.C	35.00	TOTAL: 230.40							
4	TK3.P	112.30	4	DAYTK.S	25.40	TOTAL: 123.60			TOTAL: 105.00						Dispersant Tanks (m³)				
5	TK3.S	110.60	5	TK1.P	39.90										1	TK.P	23.20		
6	TK4.P	85.10	6	TK1.S	39.90	Technical Fresh Water Tanks (m³)			Lube Oil Tanks (m³)			Sewage Tanks (m³)			TOTAL: 23.20				
7	TK4.S	85.10	7	TK2.P	63.80	1	TK.P	80.90	1	TK1.P	15.50	1	TK1.C	25.20					
8	TK5.P	48.20	8	TK2.S	66.80	2	TK.S	80.90	2	TK2.P	5.30	2	TK2.C	50.40					
9	TK5.S	48.20	9	TK3.C	56.10	3	TK.C	60.50	3	TK2.S	5.30	TOTAL: 75.60			Foam Tanks (m³)				
10	TK6.P	55.10	10	TK4.P	112.50	TOTAL: 222.40			TOTAL: 26.10						1	TK.S	23.20		
11	TK6.S	55.10	11	TK4.S	112.50							Bilge Holding Tanks (m³)			TOTAL: 23.20				
TOTAL: 841.30			12	CLEAN_TK.P	2.50	Liquid Mud Tanks (m³)			Base Oil Tanks (m³)			1			BLG.P	25.20			
			13	EM_TK.P	3.10	1	TK1.P	48.70	1	TK.P	107.00	2			BLG.S	25.20	Slop Tanks (m³)		
			TOTAL: 592.40			2	TK1.S	48.70	TOTAL: 222.30			TOTAL: 50.40			1			TK.P	8.40
Cargo Fresh Water Tanks (m³)						3	TK2.P	57.60							TOTAL: 8.40				
1	TK1.C	86.00				4	TK2.S	57.60				Dirty Oil Tanks (m³)							
2	TK1.P	93.10	Hydro Oil Tanks (m³)			TOTAL: 212.70						1			TK.S	15.10	ALL TANKS (m³) @ 100%		
3	TK1.S	93.10	1	TK.S	17.30							TOTAL: 15.10			TOTAL: 3077.00				
TOTAL: 272.20			TOTAL: 17.30																

UPDATED: 20-Sep-2016

[ALL INFORMATION BELIEVED TO BE ACCURATE AT THE TIME OF PRINTING]

THIS TECHNICAL BRIEF SPECIFICATION IS SUBJECTED TO CHANGE WITHOUT NOTICE



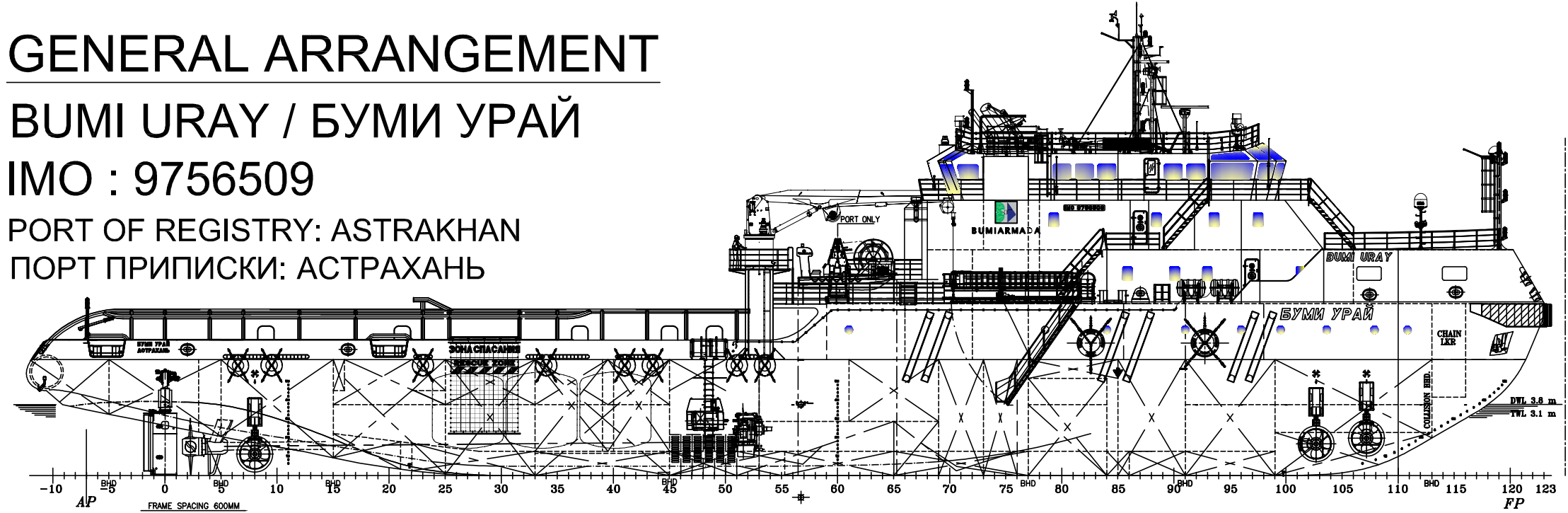
GENERAL ARRANGEMENT

BUMI URAY / БУМИ УРАЙ

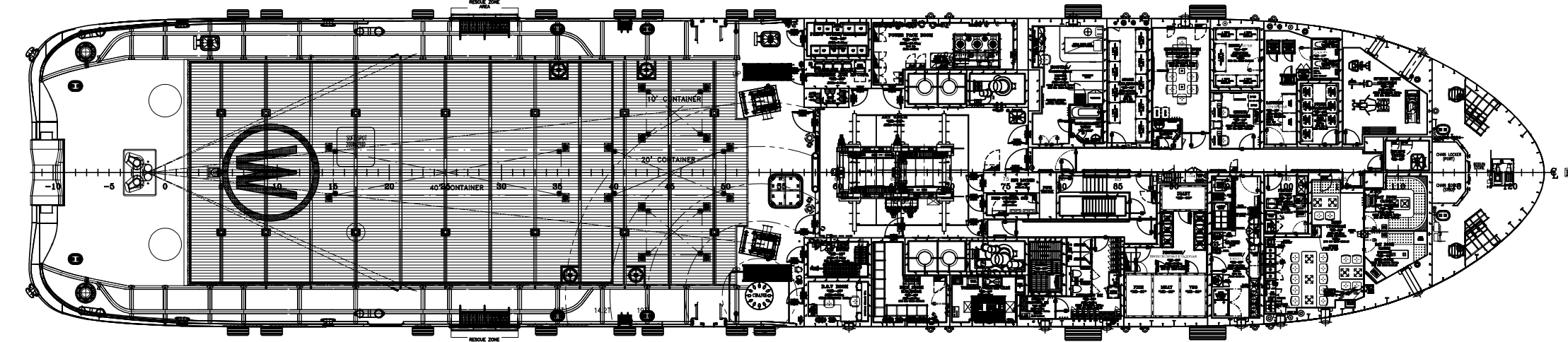
IMO : 9756509

PORT OF REGISTRY: ASTRAKHAN

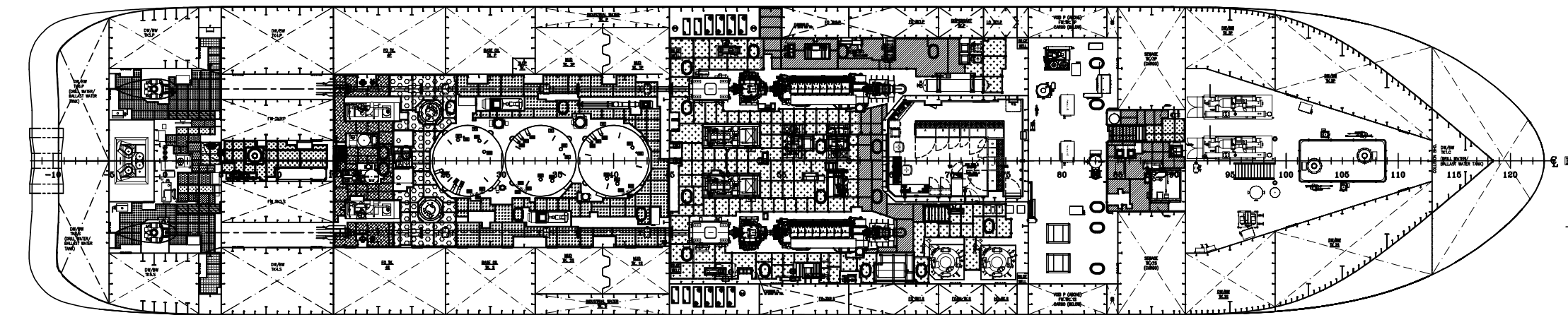
ПОРТ ПРИПИСКИ: АСТРАХАНЬ



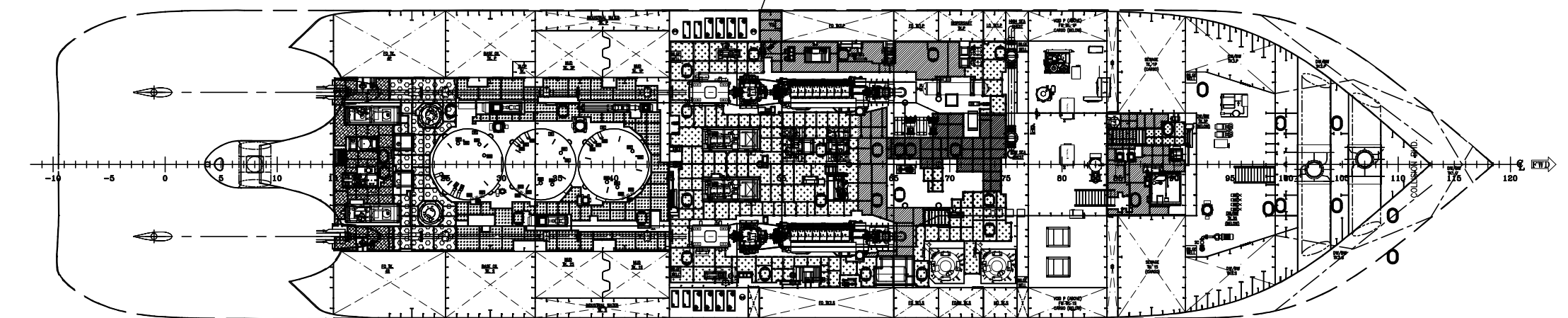
PROFILE
(STBD SIDE SHOWN, PORT SIDE SIMILAR)



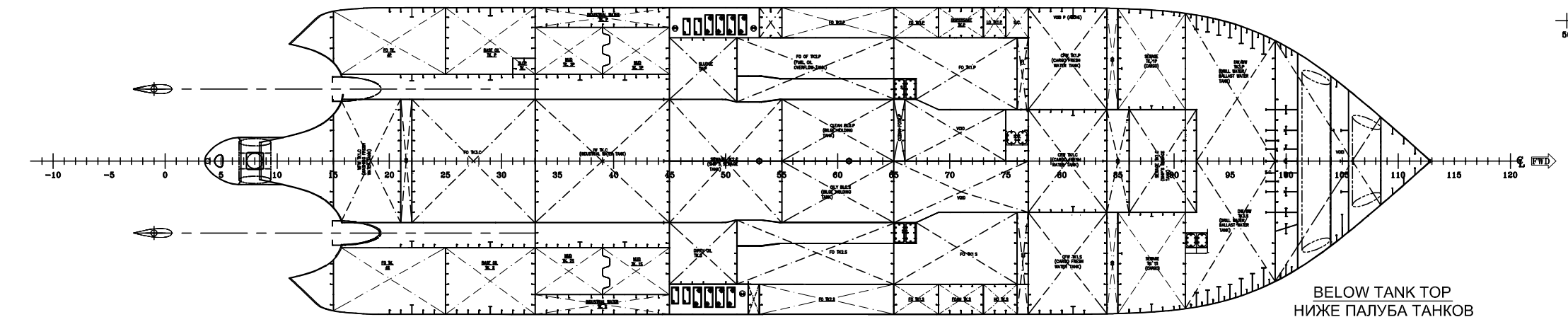
MAIN DECK / ПЛАН ГЛАВНОЙ ПАЛУБЫ
(6200 A.B.L.) / (6200 OPL)



LOWER DECK / НИЖНЯЯ ПАЛУБА
(3800 A.B.L.) / (3800 OPL)



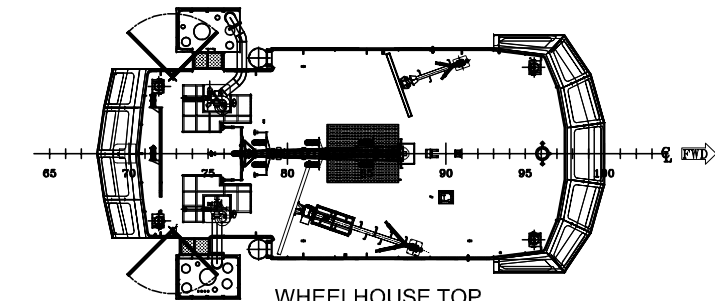
TANK TOP / ПАЛУБА ТАНКОВ
(1300 A.B.L.) / (1300 OPL)



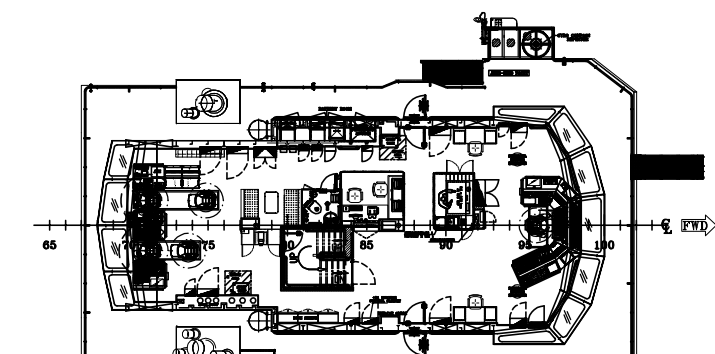
BELOW TANK TOP
НИЖЕ ПАЛУБА ТАНКОВ
(1300 A.B.L.) / (1300 OPL)

PARTICULARS :	
LENGTH, OVERALL	81.11 METERS
LENGTH, WATERLINE	76.36 METERS
BEAM (MOULDED)	16.50 METERS
DEPTH (MOULDED)	6.20 METERS
DRAFT (SUMMER)	3.80 METERS
DRAFT (TRANSIT)	3.10 METERS
COMPLEMENT :	
CREW	24 MEN

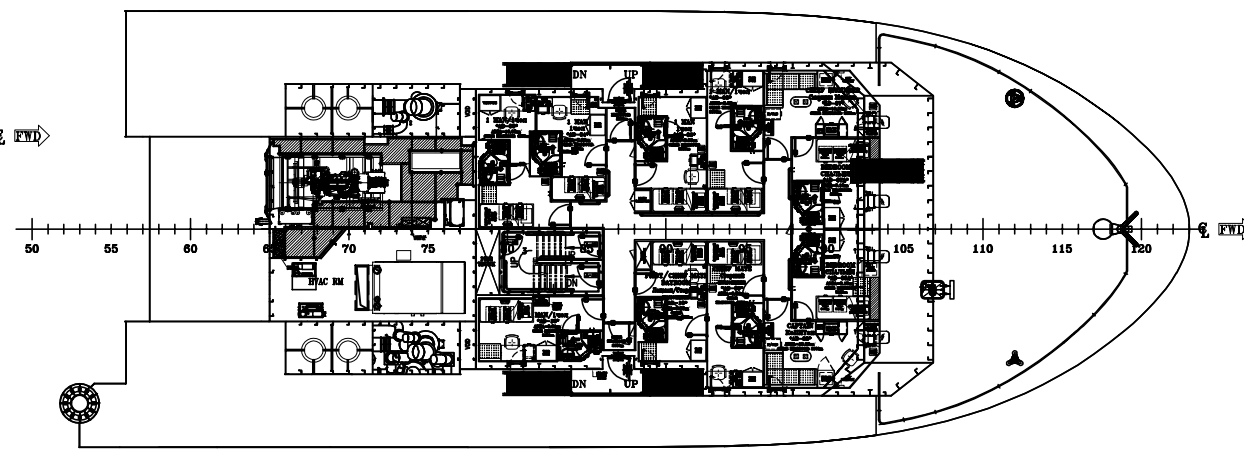
ОСОБЕННОСТИ:	
ГАБАРИТНАЯ ДЛИНА	81.11 МЕТРОВ
ДЛИНА ПО ВАТЕРЛИНИИ	76.36 МЕТРОВ
ЛУЧ (ФОРМОВАННЫЕ)	16.50 МЕТРОВ
ГЛУБИНА (ФОРМОВАННЫЕ)	6.20 МЕТРОВ
ПРОЕКТ (ЛЕТО)	3.80 МЕТРОВ
ПРОЕКТ (ТРАНЗИТ)	3.10 МЕТРОВ
ДОПОЛНЕНИЕ:	
ЭКИПАЖ	24 чел



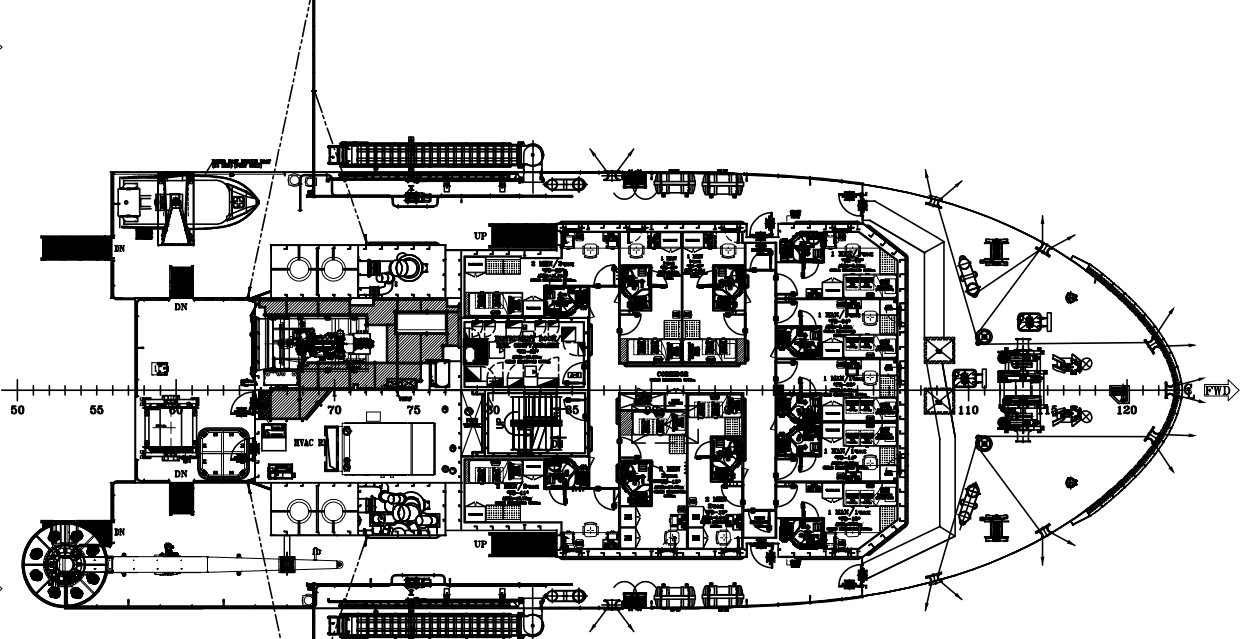
WHEELHOUSE TOP
ВЕРХНИЙ МОСТИК
(17250 A.B.L.) / (17250 OPL)



WHEELHOUSE DECK
ПЛАН ПАЛУБЫ РУЛЕВОЙ РУБКИ
(14750 A.B.L.) / (14750 OPL)



ACCOMMODATION DECK
ПЛАН ПАЛУБЫ ЖИЛОЙ НАДСТРОЙКИ
(12100 A.B.L.) / (12100 OPL)
9 x 1 MAN = 9 MEN



FORECASTLE DECK
ПЛАН ПАЛУБЫ БАКА
forecastle deck (9200 A.B.L.) / (9200 OPL)
7 x 1 MAN + 4 x 2 MEN = 15 MEN

ALTERATIONS					
REV.	AMENDMENT DETAILS		DATE	BY	PCM APP'D
0 1	AS-BUILT AS-BUILT		10/09/2015 11/02/2016	HERNIE SZW	
REFERENCE PLANS					
REF.	DWG/DOC NO	DRAWING/DOCUMENT TITLE		BY	
1	MTD P227-D100	GENERAL ARRANGEMENT (REV 1)		MTD	
PC 141 ПОКАЗАНИЕ ОДОБРЕНО RS APPROVED  Дата / Date 2016.02.25 15:29:13 + 03'00'					
Letter 141-351-10.1-44371 dated 25.02.2016					
This document and the information which it contains are confidential and are the property of Keppel Singmarine Pte Ltd. It is loaned to you for the limited purpose of assisting you with operation and maintenance of the equipment which you have purchased from Keppel Singmarine. It remains the property of Keppel Singmarine. It may not be reproduced in whole or in part without Keppel Singmarine prior written consent, it may not be disclosed to persons not having need of disclosure for the loan and it is to be returned to Keppel Singmarine upon completion of the use for which it was loaned					
PRINT RECORD					
C : CONSTRUCTION		I : INFORMATION		A : APPROVAL	
NO PRINTED					
DATE PRINTED					
ALTERATION					
OWNER (BUMI ARMADA)					
CLASS (RMRS)					
PROJECT MANAGER					
PROJECT SUPT.					
PRODN. (HULL)					
PRODN. (OUTFIT)					
PRODN. (ACCOM)					
PRODN. (MECHANICAL)					
PRODN. (PIPING)					
PRODN. (ELECTRICAL)					
PLANNING DEPT.					
PURCHASING DEPT.					
Q.A. DEPT.					
ENGINEERING DEPT.:					
HULL/OUTFIT					
MECHANICAL/PIPING					
ELECTRICAL					
PROJECT ENGINEER					
VENDOR					
CONSULTANT					
APPROVED BY :		DATE:			
OWNER (BUMI ARMADA)		11/07/2014			
CLASS (RMRS)		25/06/2014 (WITH COMMENTS)			
KM ARC4, AUT1-ICS, DYNPOS-2, FF3WS, SUPPLY VESSEL					
Keppel Singmarine Keppel Singmarine Pte Ltd 15 Benoi Road Singapore 629888 Tel: (65) 6861 6622 Fax: (65) 6860 2863					
Date:	8th MAY 2015		Scale:	1:200 @A1	
Designed By:	KSM		Hull No.:	H383	
Drawn:	JURALYN		Eng. Proj. No.:	H383	
Checked:	PHILIP KOH		Basic Design Appr'd:	PHILIP KOH	
Job:	SUPPLY VESSEL				
Title:	GENERAL ARRANGEMENT				
Drawing No.:	H383-D100 (AS-BUILT)			Rev.	1
Sheet 1 Of 1 Sheets					