



Trans Adriatic  
Pipeline

TAP AG Project Title / Facility Name:  
**Trans Adriatic Pipeline Project**

**RELAZIONE ILLUSTRATIVA  
DELLE OPERAZIONI DI ESPIANTO  
EFFETTUATE IN AREA 5 SU NUCLEI DI  
BIOCOSTRUZIONI A CORALLIGENO**

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**DICEMBRE 2019 – GENNAIO 2020**

**ALLEGATO 7  
CARATTERISTICHE TECNICHE DELLA NAVE EDT PROTEA**

*Documento TAP AG N°:*

**ALLEGATO 7 - OPL00-C30373-150-Y-TRS-0012**



# EDT Protea

DPIII Multi-Purpose Support Vessel (MPSV)



Shipmanagement



<b>DESIGN</b>	DPIII MULTI-PURPOSE SUPPORT VESSEL (MPSV)
<b>OWNER</b>	NAVIBAY SHIPPING COMPANY LTD
<b>OPERATOR</b>	EDT SHIPMANAGEMENT LTD
<b>BUILT</b>	1991, FLEKKFJORD SHIPPING AS, NORWAY
<b>REBUILT</b>	2006, UMBAUWERFT NAVAL SHIPYARD, GDYNIA, POLAND
<b>FLAG</b>	CYPRUS
<b>CALL SIGN</b>	P3KR9

SPC-CHART-018 EDT Protea - Project Specifications Sheet  
Revision 4.0  
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## GENERAL INFORMATION

Classification	DNVGL + 100 A5 E3 Research Vessel DP3 + MC E1 AUT
SPS Certification	Special Purpose Ship Safety Certificate in accordance with Assembly resolution A.534 (13) for 50 special personnel plus crew
IMO Number	9019107
MMSI Number	209255000
GL Registration Number	GL 120527
Operation	Worldwide
Endurance	45 Days
Maximum Speed	About 13 knots

## DIMENSIONS

Gross Tonnage	3793
Net Tonnage	1138
Light Ship	3425.4
Displacement	5516.9
Deadweight	2091
Length Overall	91.20 m
Breadth Moulded	14.80 m
Max Draft	6.83 m
Freeboard	2.35 m

## TANK CAPACITIES

Marine Diesel	670 m <sup>3</sup>
Fresh Water	138 m <sup>3</sup> + water maker 8-17 MT per day (dependant on area)
Ballast Water	730 m <sup>3</sup> t

## DP SYSTEM

DP System	Kongsberg SDP 21 with SDP II as backup. GL Notation "Dynpos AUTR" (Class III)
Portable Joystick	Kongsberg Simrad SJS01
Reference Systems	1 x Veripos Dual frequency LHD2-G2 (high accuracy capable <30cm) 1 x Dual frequency C-Nav 2050 (high accuracy capable <30cm) Receiver 2 x Kongsberg Seatex DPS 100 Taut Wire Bandak MK 14B Taut Wire Bandak MK 15B Kongsberg CyScan MK 4
USBL	HIPAP 500 Sonardyne Fusion
Gyros	3 x Raytheon Anschutz STD 22

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## DECK EQUIPMENT

Deck Area	500 m <sup>2</sup>
Deck Loading	5T/ m <sup>2</sup>
Deck Cargo Capacity	876 t
Deck Length	41.4m
ROV Hangar	60 m <sup>2</sup>
Under-Deck Hold	60 m <sup>2</sup>
Electric Power on Deck	230V - 60 Hz - 150A      440V - 60 Hz - 1000A

## PROPULSION

Diesel Generators	4 x 2200 kW Rolls Royce Bergen BRG-6 (in 2 separate engine rooms)
BHP	2991.2
Harbour Generators	2 x 300 kW Fiat Aifo V8
Emergency Generator	1 x 300 kW Cummins KTA19G2
Total Electrical Power	8800 kW of 660 V 60 HZ
Propulsion Inverters	2 x Alstom MV 3000
Main Propulsion	2 x Schottel Azimuth Thrusters SRP 2020, 2200 kW each
Bow Thrusters	2 x Brunvoll Tunnel FU 80 LTC-2000 @ 1100 kW each 1 x Brunvoll Retractable Azimuth @ 880 kW

## NAVIGATION

Bridge Equipment	1 x SAM Chartradar 1100 – X Band ARPA 1 x SAM Multipilot 1109 – S Band ARPA 2 x Chartpilot 1100 1 x Doppler Speed Log Skipper DL 850 1 x Echosounder – DEBEG 4630 1 x UAIS DEBEG 3400 Navtex Receiver—JRC NCR – 300A
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## HELIDECK

Helideck	D= 19m, t= 9.3t, Bell 214 ST & Super Puma AS 332L/L1 1991 Regs
Helideck Monitoring System	Kongsberg Simrad Seatex HMS-100
FiFi Monitors	2 x Ajax de Boer HR 472/100 – 180 m <sup>3</sup> per hour

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## DECK CRANES & A-FRAME

<b>Deck Cranes</b>	Hydramarine Knuckle Boom - Starboard Mid - 50 t @ 12 m - 2,000 m wire. - 25 t @ 17 m - 2,000 m wire. Active Heave Compensation to 50 Tons.
	MacGregor HMC 1301 LK 20-15(50-10)(PB15) 5 t @ 10m 2 t @ 15m
<b>A-Frame</b>	35 t SWL up to Sea State 4 with 11.5m free height (optional)
<b>ROV Hangar</b>	Forward deck with opening on starboard side – 60 m

## ACCOMMODATION

<b>Total Accommodation</b>	88 bunks
<b>Other Facilities</b>	3 x Large On- and Off-line rooms next to the ROV hangar Messroom, recreation rooms (2), changing room, medical room, gym and sauna Conference Room (seats 20+ persons, DLP Projector, Conference phone & Internet)
<b>Incinerator</b>	Installed

## COMMUNICATION

<b>Primary</b>	V-SAT Sailor 900 ( <i>adaptable to client requirements</i> )
<b>Secondary</b>	V3 KVH Trackphone
<b>GMDSS</b>	As per GMDSS Area A1, A2 and A3

## PROJECT EQUIPMENT

<b>ROV Suite</b>	QUASAR SMD 150HP up to 800 kg BP, 3500m umbilical, TMS with 450m tether rated 3000m SMD DVECSII digital telemetry, HDTV & gigabit Ethernet capability Twin Hydrolec camera booms with pan and tilt Northfield Hydraulics 38mm cable cutter Perry Slingsby class 1-4 torque tool Perry Slingsby upright flying lead orientation tool (FLOT) TSS440 pipe and cable cutter Velocious Sea Squirt fluid injection system
<b>ROV Survey Kit 1</b>	2 composite video channels, 1 Ethernet channel, 4 serial (RS232) channels
<b>ROV Survey Kit 2</b>	2 GB Ethernet channels, 2 Ethernet channels

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## PROJECT EQUIPMENT

Hydraulic Channels	Valve Pack 1:	12ch iHCU (15LPM)
	Valve Pack 2:	Zetechtics Jupiter Dual Torque Tool System, 2ch iHCU (95LPM), 12ch iHCU (15LPM)
	Video Capability:	6 x composite channels, 2 x HDTV channels
	Gyro:	NS FOG
	Lighting:	6 dimmable LED lights
	Manipulators:	Shilling Conan 7F Positive Feedback (T4 compatible), Shilling Atlas 7F Rate controlled, heavy duty
Sonar	Kongsberg Mesotech: 1171 Series Multi-Frequency, High resolution Sonar head, MS 1000 Scanning Sonar Processor	
Control Cabin	20 foot, A60 ISO	
Control System	SMD Distributed Vehicle Control System (DVECI), SCADA ROV control hardware designed for ease of use with powerful graphical feedback on vehicle sub-systems, Dual touch screens, TFT video wall	
	Incoming Power Supply: 380V—480VAC	

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