

Ministero dell'Istruzione, dell'Università e della Ricerca
Ufficio Scolastico Regionale per il Lazio
Istituto di Istruzione Secondaria Superiore
"G. Caboto"





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		a) Arrival/Departure	
		c) Each shifting;	
[01/30]	HANDLE LINES	Assistance for handling of lines for shifting of vessel in and out of shipyard and drydock to be supplied.Quote for each movement:	
		a) Arrival and departure,	
		b) Shift to and from drydock.	
[01/40]	TUG - BOATS	Required tug-boats to be provided for berthing / unberthing vessel in shipyard and in / out drydock.Quote for each movement.	
		a) Arrival and departure tugs,	
		b) Shift to and from drydock tugs.	
[01/50]	WHARFAGE	If applicable,quote per day.	
[01/60]	GANGWAY AND ACCESS	gangway on/off.	
[01/70]	SHORE POWER	Shore Power line to be connected / disconnected and shore power 380 V - 50 Hz to be supplied. Counter to be confirmed by ship's electrician..Quote for:	
		a) Each connection / disconnection	
		b) Unitary price per Kw/h	
[01/80]	FRESH WATER	Fresh water expected to be supplied.Quote for:	
		a) Each connection / disconnection	
		b) Supply of fresh water per mc.	
[01/90]	COOLING WATER	Sea water Supply for cooling ship macchineries.Quote for:	
		a) Connection / disconnection and each cooling lines.	
		b) Keep pressure per day.	
[01/100]	BALLAST WATER	Supply ballast water as required by superintendent. Quote for:	
		a) Connectio and disconnection	
		b) Price per 200 Tons.	
[01/110]	FIREHOSE	Firehose to be kept under pressure for all time required for repairs.Quote for:	
		a) Each connection / disconnection	



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		b) Salt water supply per day.	
[01/120]	FIRE WATCHMAN	Provide fire watchman, when required by the local authority, for stanby duty during period of repairs. Quote fire watchman service per day.	
		a) Daily cost / monday-saturday,	
		b) Daily cost / Sunday-holiday	
[01/130]	GAS FREE CERTIFICATE	In case gas free certificate to be provided and maintained during all the time required for repair works.Quote for:	
		a) First Certificate.	
		b) Subsequent Certificates.	
[01/140]	TELEPHONE	Telephone mobile to be supplied for local and overseas call during period of repairs.Quote for:-	
		a) mobile rental allowed for local and international call	-
		d) telephone charge	-
[01/150]	CRANAGE	Cranage to be provided for lifting Owner's spares and provisions.	
		a) Unitary price per hour,	
		b) Cherry picker per hour	
[01/160]	GARBAGE	Removal and disposal of galley refuse and garbage to be provided. Quote per day.	
[01/170]	COMPRESSED AIR	Compressed air line to be connected / disconnected. Quote for:-	
		a) Each connection / disconnection	
		b) Keep pressure per hours.	
[01/180]	HEATERS	Rental of heater	
[01/190]	TEMPORARY LIGHTING	Installation and maintenance of temporary lighting to be provided for repair duration.Quote per day.	
[01/200]	VENTILATION FANS	Ventilations fans with cables ranged and connected up to be provided as necessary.Quote for:	
		a) Per fan and per day.	
[01/210]	CLEANING	Vessel to be cleaned periodically during period of repairs. All arising collected and disposed ashore.	



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[01/220]	ACCOMODATION ALLEYWAYS	Protect accomodation alleyway floors by reinforced oil proof paper or plastic covering. Quote per square meter.	
[01/230]	REMOVAL AND REFITTING OF BOTTOM PLUGS	If necessary to remove any bottom plug, they must be removed and replaced in the presence of the superintended. Necessary precautions to be taken to ensure no plugs are removed from oil, fuel and fresh water tanks, unless tanks have been prepared in advance to prevent leakage into bottom. Quote for:	
		a) Removal and refitting of each plug,	
		b) Vacuum test "watertightness" after refitting per pcs.	
		c) Renewal of each plug.	
[01/240]	SEWAGE DISCHARGE / DIPOSAL	Quote for :	
		a) Connections / disconnection	
		b) Sewage discharge and disposal per cu. Mt.	
[01/250]	D.O. TANKS CLEANING	Quote your standard price for:	-
		a) D.O. tank cleaning per cu. Mt. Of tank to be cleaned (or specify your way to quote)	-
[01/260]	L.O. TANKS CLEANING	Quote your standard price for:	
		a) L.O. tank cleaning per cu. Mt. Of tank to be cleaned (or specify your way to quote)	
[01/270]	BLACK\GREY WATER TANKS CLEANING	Quote your standard price for:	
		a) Tank cleaning per cu. Mt. Of tank to be cleaned (or specify your way to quote)	
[01/280]	SEWAGE TANKS CLEANING	Quote your standard price for:	
		a) Tank cleaning per cu. Mt. Of tank to be cleaned (or specify your way to quote)	
[01/290]	FRESH WATER TANKS CLEANING	Quote your standard price for:	
		a) Tank cleaning per cu. Mt. Of tank to be cleaned (or specify your way to quote)	
[01/300]	STAGING	Quote your standard prices for staging per cu mtrs, as follows:	
		a) in drydock;	
		b) on deck and open spaces;	
		e) inside cargo and ballast tanks;	
		d) hanging staging;	
01/310	SECURITY SERVICE	Quote x day and x man	





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[01/00]		DRYDOCKING AND GENERAL SERVICE			
[02/00]		REPAIR IN DOCK			
[02/10]	TAILSHAFT WEARDOWN AND CLEARANCES	Erect necessary staging, take records and submit to the Class the following:			
		a) Top and bottom tailshaft bearing wear-down measurement.			
		b) Staging.			
		c) Tailshaft withdrawal, bonnet removal, gask			
		d) MPI test on cone, leakage test on seals.			
		e) Diameter of tailshaft and stern bearing measuring.			
		f) Yard assistance for the handling (in yard and on board) of the intermediate shaft.			
g) Removal of old and refitting of the new intermediate shaft, (intermediate shaft owner supply) including but not limited to the couplings, bolts and flanges as necessary and associated cleaning jobs.					
[02/20]	STERN TUBE: (Mechanical seal type)	Quote for :			
		a) Quote for Maker assistance a supervision of the removal and refitting of stern tube seals, housing including and vulcanization if necessary; quote lumpsum			
		b) Yard assistance to be given to Maker service engineer during removal and refitting of seal housing including renewal of existing aft rings seal and relevant vulcanizing; quote lumpsum			
c) Thermometer to be installed in order to have undercontrol the bearing temperature					
[02/30]	CPP – Maker LIPS: LIPS ORDER Nr: H03493/94 OD BOX – TYPE: VL 90 C	Quote for :			
		a) Quote for Maker assistance a supervision of the removal and refitting of Blades on the Hubs , including related jobs ; quote lumpsum			
		b) Yard assistance to be given to Maker service engineer during removal and refitting of Blades, including related jobs; quote lumpsum			
c) Yard assistance to given to Maker service engineer during OD BOX overhauling if necessary ; quote lumpsum					
[02/40]	SHAFT ROPE GUARD	Quote for :			
		a) Remove and refitt rope guard for access;			
		b) Anode renewal with yard's spare			
[02/50]	PROPELLER	N° 4 blades			
		Outside diameter:	2500	mm	





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		Propeller blades and hub to be inspected, cleaned, polished and covered by oil x protection	
[02/60]	RUDDER	Quote for :	
		a) Staging to be erected on side of the rudder. Quote x m3	
		b) Removing/refitting inspection covers of lower and upper nut (bolted or welded)	
		c) Clearances of upper and lower pintle and steady bearings in F->A and P->S positions are to be taken and submitted to superintendent relevant records.	
		d) Check pintle and rudder stock nut for tightness under superintendent supervision.	



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		Steel plate renewing cost per Kg	
		Staging	
		Vacuum test and/or UT test	
		Internal recoating cost per sq. Meter, 150 micron 2 coat	
[02/110]	SEA CHESTS (4 PCS (HIGH, LOW, FIRE PUMP AND AIR CONDITION COOLING))	Sea chests to be washed SA 1, blasted and painted with two coats of paint; gratings to be removed, cleaned, painted and refitted in good order. Quotation shall included relevant staging. Quote per pcs:	
		a) opening/closing grating vatours dimentions	Em.cy fire pump 400 mm - Air Con 400 mm - Sea chest 1000 abt
		b) cleaning; 4 pcs	
		c) Antifouling recoating	
[02/120]	HULL PROTECTION ANODES	Hull and sea chests protection anodes to be renewed under superintendent supervision. Quote unitary cost for supply and renewal of following:	
		a) Zinc sacrificial anode	5Kg x70 pcs
		b) Zinc sacrificial anodes in way of rudder.	6Kg x 7 pcs
		c) Installation per pcs	
[02/130]	WELDING OF SEAMS	If welding seams on the hull sides and bottom must be weeded out and rewelded.	
		a) Quote job per running meter (at least 3 passes).	
		b) quote staging for above job.	
[02/140]	SHELL PLATES / STEEL INSERT on VESSEL HULL	Shell plate insert along with internal frames or stiffners as necessary	
		Quote steel plate renewal (tariff x Kg), grade A, B, D, E (normal and high tensile)	
		Quote stiffener renewal	
		Quote fairing up plates in place	
[02/150]	CHAIN LOCKERS PORT AND STBD	Both chain lockers to be cleaned, chipped & painted with ship paint	
		Remaining Mud to be removed and CLs to be cleaned by HPW (220 bar)	
		Bulkheads to be de-rusted and painted with epoxy coat according EPA regulation (Relevant VGP yard statement to be issued).	
		Bottom greating to be cleaned and re-painted with epoxy coat,	



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[02/160]	ANCHOR CABLES RANGING AND MARKING Chain total length - 357,5 Mtrs - 13(total) shackles . Weight of Anchors: 780 kgs (each) Anchor cable: Grade STEEL K3, dia 35 MM	Anchor and chain to be ranged to drydock floor; washed down by HPWJ (220 bar), chipped & calibrated; report to be submitted			
		Loose webs (chain studs) to be re-welded			
		Kenter/Joining shackles to be inspected and painted red;			
		Chain links to be marked by stainless steel band and apply white paint			
		both chain to be reversed end to end			
		port side chain to be exchanged with stb side one			
[02/170]	STEERING GEARS	Quote: for			
		Installation of second Hydraulic pump (supplied by ship) included oil pipes and electrical installation	1 PCS		
[02/00]	REPAIR IN DOCK				
[03/00]	CLEANING AND PAINTING.				
	NOTE: Prior paint application, propeller, hull anodes and echosounding plates are to be protected .				
	NOTE: The necessary staging to be included in the quotation.				
[03/10]	SCUPPER PLUGS	During works, wooden plugs with spouts have to be fitted to scuppers and overboard pipes, in dock and at berths. Quote per pcs.			
[03/20]	OIL AND GREASE REMOVAL	Thoroughly clean off any oil or grease on hull using approved solvent which should be finally wash down with high pressure fresh water jet.			
		a) Quote for sq.mt.			
[03/30]	HULL CLEANING	The hull from the keel to the rail, including the rudder, shall be thoroughly washed down by H.P.F.W. (250 Kg/cm2) fresh water. Spot sandblasting to SA 2,0 or SA 1,0 (were required) of top side, shell and bottom to be carried out.			
		Total surface		Tot sq. 920 mt	
		sandblasting areas:		%	
		a) cleaning by H.P. fresh water x sqm.			
		b) grit blasting to SA 1.0 x sq mt		%	
		c) grit lasting to SA 2,0 x sq mt.	%		





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[03/40]	HULL PAINTING (BOTTOM) (MAKER: TBC - COLOR : Dark Red and Ligh Red - PRODUCT : Organotin free self polishing)	Flat bottom surface		sq. 500 mt		
		Quote painting per square meter and per coat:				
		a) T/up epoxy 150 mcr in way of grit blasted areas.			coats	
		b) T/up coat 100 mcr A.F. in way of grit blasted areas.			coat	
		c) Full coat coat A.F. 100 mcr			coat	
Quote per coat.						
[03/50]	HULL PAINTING (SIDES)	Vertical Sides (from B.keel to DWL) surface:		sq. 420mt		
		Quote painting per square meter and per coat:				
		a) T/up epoxy 150 mcr in way of grit blasted areas.			coats	
		b) T/up coat 100 mcr A.F. in way of grit blasted areas.			coat	
		c) Full coat coat A.F. 100 mcr			coat	
d)						
[03/60]	MAIN DECK (TEAK 40 x 100)	Top sides surface:		sq. 300 mt		
		TEAK MAINTENANCE				
		a) replacement of fixing point with stainsteel bolts, washer and nut (14 mm) covered with wood plug			m	
		b) replacement of damaged wood parts			m	
c) teak rubbeizer						
[03/70]	SIMBOLS & DRAFT MARKS	Quote for:				
		a)Draft mark, load lines marks, frame indication and Cargo holds marks to be white painted.				
		b)Ship's name (Fwd) in Gold painted				
		c)IMO (Bridge) number in black painted				
		d) Sets of plimsol marks at port and stbd side midship to be tag welded or punch marked (burned areas to be recovered) and be painted.				
[03/00]	CLEANING AND PAINTING.					
[04/00]	VALVES					



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[04/10]	SEA AND OVERBOARDGATE VALVES	Gate valves to be opened up in place, cleaned and overhauled; renew of packing and re-assebled where needful. Acceptance of Class Surveyor to be requested.		
		Location	DN(mm)	pcs
		D G nr 1 overboard	200	1
		D G nr 2 overboard	150	1
		D G nr 3 overboard	25	1
		Main Engine overboard	300	1
[04/20]	SEA AND OVERBOARD STOP VALVES	Globe valves to be opened up in place, cleaned, grinded, lapped and after inspection reclosed as original. Quote per size as follow		
		location	DN(mm)	pcs
		Main Sea chest valves	unknow	2
		A/C sea chest inlet	unknow	2
		OWS	unknow	1
		Sewage	unknow	1
		Em.cy fire pump	unknow	2
		A/C overboard	unknow	2
[04/30]	STEAM / WATER VALVES	Steam/water valves to be overhauled, grinded, lapped and boxed up with new packings. Price per nominal diameter and per pes.		
		Location	DN	pes
		A) Steam valve Non return globe valve DN 25 PN 16 : H121	25	4
		Economiser Return Valve, DN100, PN40,GSC25	100	4
		Economiser Steam Water Mixture Outlet Valve, DN80, PN16,GG25	80	4



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		Aux. Boiler Steam Shutoff Valves, DN100, PN40, GSC25, Globe Valves	100	2	
		valve for instruments (water level)	15	8	
[04/40]	AIR VALVES	A) Air valve No return globe valve DN 25 Pn 16 GGG40	25	4	
[04/00]	VALVES				
[05/00]	MAIN ENGINE		DEUTZ RBV6M358, 750 KW AT 275 RPM Nr. 3257 200-285		
[05/10]	CHECKINGS	Before of any removals and with vessel afloat, crankshaft deflection readings, main bearings, crosshead bearings, crosshead guides, big end bearings and main thrust clearances to be taken and recorded. Relevant records are to be submitted to superintendent. Based on the readings, some bearing could be replaced with ship's spare			
		Open up crankcase doors for access and afterward reclose as original.			
[05/20]	CYLINDER COVERS	CIL nr 3 To be dismantled, overhauled and O-Ring to be replaced	-		
[05/30]	ROCKER ARMS	Clearance to be check			
[05/40]	FUEL VALVE COOLING SYSTEM	Sea water leakage to be eliminate and tested			
[05/50]	F.O. INJECTION PUMP	To be installed one not return valve in order to avoid problem with air in the circuit			
[05/60]	CAMSHAFT	clearance to be check			
{05/70}	ME AIR COOLER	Remove the air cooler (4 PCS), bring to the workshop, clean by chemical and carried out pressure test. End cover to be shipped and painted by epoxy. Packing rubber to be replaced. At the end fitting back			
{05/80}	FOUNDATION TIE BOLT CHECKING/TIGHTNING	Quote for each pes	-	-	
{05/90}	ME TIE RODS TIGHTNING	Quote for each pes	-	-	
[05/100]	ME COOLING JACKET PUMP	To be overhauled due to oil leakage		-	
{05/110}	FUEL HIGH PRESSURE PIPE	Cyl nr 5 to be eliminate leakage		-	
[05/120]	EXHAUST PIPE	Support to be installed in order to avoid Exhaust pipe damage			
[05/00]	MAIN ENGINE		DEUTZ RBV6M358, 750 KW AT 275 RPM Nr. 3257 200-285		





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[07/00]	SHAFT INVERTER	Make : HANGZHOU ADVANCED GEARBOX GROUP CO.LTD. Type :		
[07/10]	OIL COOLER	To be dismouted, brought to w/shop, cleaned by chemical, pressure tested and re-fitted in place		
[07/20]	LUBRICATING OIL	To be renewed (oil owner supply)		
[07/30]	L.P. PRESSOSTAT	To be check (elec check, testing)		
[07/40]	L.O. SYSTEM	To be installed new drain valve (old to be cropped and new installation to be arranged)		
[07/00]	SHAFT INVERTER	Make : HANGZHOU ADVANCED GEARBOX GROUP CO.LTD. Type :		
[09/00]	PUMPS IN ENGINE ROOM			
	Following centrifugal pumps to be completely overhauled. Electric connections, pipes and fittings disconnected, pumps lifted out to workshop. Electric motors opened up, chemical cleaned, varnished, baked and tested by megger; surfaces and rotating parts accurately controlled and bearings renewed using vessel's spares. Rotating parts of pumps dinamically balanced and recorded (quote as extra). On completion electro/pumps reassembled in good order and reinstalled on board. All pumps number off units to be tested in normal working conditions.			
[09/10]	FRESH WATER PUMPS	Both pumps should be overhaul	nr. 2 pcs	
	EM.CY BILGE PUMP	Should be overhal		
[09/00]	PUMPS IN ENGINE ROOM			
[11/00]	ELECTRICAL REPAIRS			
[11/10]	MAIN SWITCHBOARDS	Examine all parts and tight all connections, terminals, nuts and bolts. Any trace of sparking to be removed and the switchboards to be thoroughly cleaned. Instruments on the switchboards to be controlled and calibrated. Main Circuit Breaker to be moved to workshop for testing overcurrent, reverse power, undervoltage etc and calibrate Records to be supplied		
		Thermographic inspection		
		Quote for calibration of kilo Watt meter, Volt meter, Frequency meter		
		Quote for checking, tightning and cleaning of MSB		
		Quote for each instrument.		
[11/20]	EMERGENCY SWITCHBOARDS	Examine all parts and tight all connections, terminals, nuts and bolts. Any trace of sparking to be removed and the switchboards to be thoroughly cleaned. Instruments on the switchboards to be controlled and calibrated.Records to be supplied.		
		Thermographic inspection		





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		Quote for cleaning of swithboard.			
		Quote for calibration of kilo Watt meter, Volt meter, Frequency meter			
[11/30]	ELECTRIC MOTORS	Insulation measurement needed for all E\Motors.			
[11/40]	MAIN TRANSFORMERS (380/220)	To be ispect, clean and test		2	
ELECTRICAL REPAIRS					
[12/00]	DIESEL GENERATOR NR 1			DOOSAM DAEWOO - MODEL: AD222TI Sn: EA 7KG 601161 - 446 Kw 1500 RPM DATE : 2006	
[12/10]	MGO FILTER	To be installed MGO filter (Duplex) type RACOR (RINA Approved type)			
[12/20]	IAPP CERTIFICATE	To be issued			
[12/30]	COOLING SYSTEM	Cooling tank to be check \ renewal due high corrosion			
[12/40]	MGO SYSTEM	all enjection valves to be overhaul		12 pcs	
	DIESEL GENERATOR NR 2			MAN - TYPE 02840LE Sn.: 583390\033	
[12/50]	MGO FILTER	To be installed MGO filter (Duplex) type RACOR (RINA Approved type)			
[12/60]	ALTERNATOR	To be open and cleaning inside			
[12/70]	START BATTERIES	To be replace with new ones			
	DIESEL GENERATOR NR 3			MERCEDES - Type: OM404 Sn.: 404.901-000-000323	
[12/80]	MAINTENANCE	Total overhauling needed as per expired running hours			
[12/90]	MGO FILTER	To be installed MGO filter (Duplex) type RACOR (RINA Approved type)			
[12/100]	ALTERNATOR	To be open and cleaning inside			
[12/110]	START BATTERIES	To be replace with new ones			





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[12/120]	SEA WATER COOLING SYSTEM	To be installed the inlet filter			
[13/00]	VARIOUS REPAIRS IN ENGINE ROOM				
[13/10]	ANTIFOULING SYSTEM	sacrificial anodes (Al + Cu) mounted on sea chests P/S to be renewed (ship's supply). (Diam 100 x 800)		4 pcs	
[13/20]	IACCP system	Anodes to be replaced and dielectric to be restored		N/A	
[13/30]	AC COMPRESSOR SYSTEM (MAKER - FIMPI SERIES : FCW.RI MODEL: 160S Sn.: 015B)	AC compressor nr 4 to be renewal	1	pc	
		AC compressor nr 2 to be check and test	1	pc	
[13/40]	A\C COOLING SYSTEM	Remove the air cooler (2 PCS), bring to the workshop, clean by chemical and carried out pressure test. End cover to be chipped and painted by epoxy. Packing rubber to be replaced. At the end fitting back			
[13/50]	SEA WATER PIPELINE	marked pipes to be checked / renewed incl. Bolts, nuts and gasket			
[13/60]	PIPINGS	Pls provide yard's standard prices for piping renewal for different materials, Dia, sch., elbow, flanges			
[13/70]	BILGE LINE SYSTEM OUT ENGINE	To be check and put in service (at moment ship is unable to transfer the bilge water)			
[13/80]	THICKNESS MEASUREMENTS	Shall plate main mast (3 pcs)			
[13/90]	MAIN MAST	Electrical box and wire connections to be check			
[13/100]	BOSUN STORE FWD	To be install appropriate air duckor hatch cover in order to ventilate the store			
[13/110]	OWS (Maker DECKMA - Type OMD-2005)	Coalescer filter to be open and cleaner			
		Oleometer to be check and certificate (last Check 18.01.2012)			
[13/120]	PURIFIERS	Lub oil o+purifier vertical shaft to be repaired due to damaged thread on top.		-	
[13/130]					
[13/00]	VARIOUS REPAIRS IN ENGINE ROOM				



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[14/00]	VARIOUS REPAIRS on CARGO HOLDS / DECKS / BALLAST SPACES/ BRIDGE EQUIPMENTS				
[14/10]	ENCLOSED SPACE / BALLAST COMPARTMENT	Quote for surface treatment of enclosed space:			
		HPFW washing			
		Surface treatment up to SA2 standard cost x sq.mtr			-
		Tank recoating cost x sq.mtr			
[14/20]	PERMANENT BALLAST	Quote for cropping present ballast arrangment and installa new permanenete ballast cement base			
[14/30]	ELECTRICAL SOCKET ON MAIN DECK (220V)	All socket on Deck to be checked			-
		to be installed additional socket			-
[14/40]	ELECTRICAL SHORE CONNECTION (220V)	Electrical socket (380V) in poop deck to be installed			-
[14/50]	COMPASS DECK	to be installed additional socket			
[14/60]	STEERING GEARS SYSTEM	Additional Hydraulic pump should be installed			
[15/70]	TOILETS	All flush water valves should be replaced with adeguate valves (self-closing flush type)			-
[14/80]	N°2 HATCH COVER CONTROL BLOCK	-			-
[14/90]	ACCOMODATION GANGWAYS	-			
[14/100]	HFO / DO BUNKER LINES	-			
[14/110]	HATCH COVERS HOSE TEST	-			
[14/120]	ENGINE ROOM FWD BULKHEAD BOUNDARY with C.H. nr.7	-			



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[14/130]	SPEED LOG	Overhaul of the Speed Log needs to be done in dry dock. Cleaning of the transducers sensors on the bottom of the ship and carrying out of all tests and checks of the system. If it is required, the system needs to be reprogrammed. Description of speed log as follows; Maker and Type ????????????????			
[14/140]	SIDE SHELL DOORS (AFT)	To be operationally tested, hydraulic hoses to be renewed, excessive loose parts / pins to be rectified and weathertightness to be tested	1	door	
[14/150]	Tender/Fast rescue boat	electrical box and wire connections (24 V) to be check	2	pcs	
		Overboard motor to be overhauled	2	pcs	
		General cheking to be performed	2	pcs	
		Wire ropes to be replaced	2	pcs	
		Sterter on both Tender to be check	2	pcs	
[14/00]	VARIOUS REPAIRS on BRIDGE / DECKS LAST SPACES/BRIDGE EQUIPMENTS				

(Preside Salvatore Di Tucci)

