

YEARLY WORK PACKAGE

(A) HULL

Defect Sl.	Description of Defect	Final RFIC Remarks																																																			
UNDER WATER PACKAGE EQUIPMENT: HULL AND APPENDAGES, MAKE: ABG SHIP YARD																																																					
HA-1001	Carry out docking and undocking of the ship as per docking plan. Scrap and clean the marine growth immediately on completion of docking and wash with fresh water. Clean the EM log and ECHO sounder pick up head. Clean all sea growth and apply paint as per paint scheme.	DO Docking plan will be provided by ship. Paint scheme - jotun																																																			
HA-1002	Renew all sacrificial anodes (both hull and jets) which are consumable 50% or more. All other anodes to be cleaned with wire brush. Qty - 08 in nos (04 nos-main engine sea chest & 04 nos shaft protection tube).	DO anodes CG supply																																																			
HA-1003	Carry out UTG of critical or suspected area as per class LRA surveyor's recommendation. Renew hull plates as necessary	DO Survey to be undertaken through LRS. Renewal against AWRF as per surveyors recommendations																																																			
HB-1004	Remove all 02 nos. under water gratings, clean and chip to bare metal and to be fitted after painting as per paint scheme with adequate surface preparation. Renew all fasteners.	DO Qty- 02 Material yard supply.																																																			
HA-1005	Underwater Painting. Paint is to be removed using paint remover or as suitable without any damage to metallic surface. Painting of underwater hull including boot top area as per paint scheme after completion of underwater repairs. Total area is 250 sq. mtr. Paint yard Supply. (A) Under water – Area 230 Sqmtr <table><tr><th>Coat</th><th>Paint name / colour</th><th>DFT</th><th>Pre treatment</th></tr><tr><td>1st</td><td>Penguard HB Red</td><td>100</td><td rowspan="6">HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh</td></tr><tr><td>2nd</td><td>Penguard HB Grey</td><td>100</td></tr><tr><td>3rd</td><td>Safeguard universal ES, Red</td><td>100</td></tr><tr><td>4th</td><td>AF SeaAlu, DK Red</td><td>150</td></tr><tr><td>5th</td><td>AF SeaAlu, Blue</td><td>100</td></tr><tr><td>6th</td><td>AF SeaAlu, DK Red</td><td>100</td></tr><tr><td>Total</td><td></td><td>650</td><td></td></tr></table> Boot top – Area 20 Sqmtr <table><tr><th>Coat</th><th>Paint name / colour</th><th>DFT</th><th>Pre treatment</th></tr><tr><td>1st</td><td>Penguard HB Red</td><td>100</td><td rowspan="5">HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh</td></tr><tr><td>2nd</td><td>Penguard HB Grey</td><td>100</td></tr><tr><td>3rd</td><td>Safeguard universal ES, Red</td><td>100</td></tr><tr><td>4th</td><td>AF SeaAlu, Black</td><td>150</td></tr><tr><td>5th</td><td>AF SeaAlu, Black</td><td>150</td></tr><tr><td>Total</td><td></td><td>600</td><td></td></tr></table>	Coat	Paint name / colour	DFT	Pre treatment	1 st	Penguard HB Red	100	HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh	2 nd	Penguard HB Grey	100	3 rd	Safeguard universal ES, Red	100	4 th	AF SeaAlu, DK Red	150	5 th	AF SeaAlu, Blue	100	6 th	AF SeaAlu, DK Red	100	Total		650		Coat	Paint name / colour	DFT	Pre treatment	1 st	Penguard HB Red	100	HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh	2 nd	Penguard HB Grey	100	3 rd	Safeguard universal ES, Red	100	4 th	AF SeaAlu, Black	150	5 th	AF SeaAlu, Black	150	Total		600		DO Apply Jotun paint scheme. Paint Yard Supply
Coat	Paint name / colour	DFT	Pre treatment																																																		
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Total		600																																																			

Defect Sl.	Description of Defect	Final RFIC Remarks																											
HB-1006	The following main jet system compartment(water jet sea inlet tube and water jet duct) to be degreased, fresh water washed and power tooled to ST2 STD and painted after completion of repairs as per paint scheme as mentioned below. Paints Yard supply. Water Jet compt.(Total area 20 sq mtr.) <table><tr><th>Coat</th><th>Paint name / colour</th><th>DFT</th><th>Pre treatment</th></tr><tr><td>1st</td><td>Marathon Red 49</td><td>250</td><td rowspan="6">HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh</td></tr><tr><td>2nd</td><td>Marathon Grey 38</td><td>250</td></tr><tr><td>3rd</td><td>Safeguard universal ES, Red</td><td>100</td></tr><tr><td>4th</td><td>AF SeaAlu, DK Red</td><td>150</td></tr><tr><td>5th</td><td>AF SeaAlu, Blue</td><td>100</td></tr><tr><td>6th</td><td>AF SeaAlu, DK Red</td><td>100</td></tr><tr><td>Total</td><td></td><td>950</td><td></td></tr></table>	Coat	Paint name / colour	DFT	Pre treatment	1 st	Marathon Red 49	250	HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh	2 nd	Marathon Grey 38	250	3 rd	Safeguard universal ES, Red	100	4 th	AF SeaAlu, DK Red	150	5 th	AF SeaAlu, Blue	100	6 th	AF SeaAlu, DK Red	100	Total		950		DO APPLY JOTUN PAINT SCHEME. PAINT YARD SUPPLY
Coat	Paint name / colour	DFT	Pre treatment																										
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Total		950																											
HA-1007	Painting of draught markings and ship side blue bands to be painted. Paint yard Supply.	DO APPLY JOTUN PAINT SCHEME. PAINT YARD SUPPLY																											

SHIP SIDE, SUPER STRUCTURE & MAST MAKE : ABG SHIP YARD																												
HA-1008	Carry out survey of internal and external shell plating, all welded joints and other structures by classified surveyor and Report is to be rendered with LRS surveyor's recommendations.			do Undertake through LRS. repairs against AWRF as per LRS recommendations																								
WATER TIGHT DOORS AND HATCHES (DOORS - 06 Nos., HATCHES - 04 Nos.)																												
HA-1009	100% area to be visually surveyed by LRS Surveyor for correctness and water tight integrity, carry out nondestructive testing on suspected area and carryout repair as necessary.			DO UNDERTAKE THROUGH LRS. REPAIRS AGAINST AWRF AS PER LRS RECOMMENDATIONS																								
HA-1010	Replace all rubber coaming of doors and hatches. Approx Length- 35 mtr			DO MATERIAL YARD SUPPLY																								
HA-1011	Carry out watertight test by chalk/hose testing on the door and hatches			DO																								
HA-1012	Carry out cleaning of inside & outside area of both water jet buckets for erosion/corrosion and peeling of paint film. Report is to be rendered with LRS surveyor's recommendations.			DO RENEWAL AGAINST AWRF AS PER LRS RECOMMENDATIONS																								
UNDERWATER PACKAGE FRESH WATER TANK, CAPACITY-01 TON																												
HA-1013	Clean and pressure test the fresh water tank to design pressure. Remove, clean and fitted back drain plug.			DO PRESSURE TEST UP TO 3 BAR/ AS PER TRIAL PROTOCOL. GASKET COVER – YARD SUPPLY. ANY OTHER WORK WILL BE AGAINST AWRF.																								
HA-1014	Carry out 100% survey. Post degreasing, F/W Wash and Power Tool Cleaning ST 2STD fresh water tank to be painted as per paint scheme mentioned below. (Area: 10 Sq Mtrs). Paint Scheme: Jotun with dry film thickness(paint yard supply) <table><tr><th>Coat</th><th>Paint name / colour</th><th>DFT</th><th>Pre treatment</th></tr><tr><td>1st</td><td>Penguard HB, Red</td><td>100</td><td rowspan="5">HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh</td></tr><tr><td>2nd</td><td>Penguard HB Grey</td><td>50</td></tr><tr><td>3rd</td><td>Penguard HB Grey</td><td>50</td></tr><tr><td>4th</td><td>Penguard HB White</td><td>50</td></tr><tr><td>5th</td><td>Penguard HB White</td><td>50</td></tr><tr><td colspan="2">Total</td><td>300</td><td></td></tr></table>			Coat	Paint name / colour	DFT	Pre treatment	1 st	Penguard HB, Red	100	HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh	2 nd	Penguard HB Grey	50	3 rd	Penguard HB Grey	50	4 th	Penguard HB White	50	5 th	Penguard HB White	50	Total		300		DO. PAINT JOTUN. PAINT YARD SUPPLY. SERVICE OF LRS TO BE ARRANGED BY YARD.
Coat	Paint name / colour	DFT	Pre treatment																									
1 st	Penguard HB, Red	100	HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh																									
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4 th	Penguard HB White	50																										
5 th	Penguard HB White	50																										
Total		300																										
Defect Sl.	Description of Defect			Final RFIC Remarks																								
UNDERWATER PACKAGE FUEL, LUB, HYDRAULIC AND DIRTY OIL TANK																												
HA-1015	All above mentioned tanks to be cleaned, surveyed and tested. Remove, clean and fitted back drain plug. (Fuel tank- 3.6 (Qty-02) , 1.9 (Qty- 02) & 2.8 KL- (Qty- 01), Lub oil dirty tank- 01 , Capacity- 300 Ltrs, Dirty Oil tank, capacity- 01, Qty-01			DO MATERIAL YARD SUPPLY																								
GREY WATER TANK, AREA- 06 SQ MTR																												
HA-1016	Remove the grey water from the tanks, clean with liquid detergents and scrap the damage paint, carry out 100% survey by surveyor. Repaint the tanks as per paint scheme. Paint yard supply. <table><tr><th>Co at</th><th>Paint name / colour</th><th>DFT</th><th>Pre treatment</th></tr><tr><td>1st</td><td>Penguard HB White</td><td>125</td><td rowspan="3">HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh</td></tr><tr><td>2nd</td><td>Penguard HB Grey</td><td>125</td></tr><tr><td>3rd</td><td>Penguard HB White</td><td></td></tr><tr><td colspan="2">Tot al</td><td>250</td><td></td></tr></table>			Co at	Paint name / colour	DFT	Pre treatment	1 st	Penguard HB White	125	HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh	2 nd	Penguard HB Grey	125	3 rd	Penguard HB White		Tot al		250		DO PAINT YARD SUPPLY. SERVICE OF LRS TO BE ARRANGED BY YARD. CAPACITY- 01 TON						
Co at	Paint name / colour	DFT	Pre treatment																									
1 st	Penguard HB White	125	HPFWW, sanding with 3M sander disc with abrasive flap of 35 to 60 mesh																									
2 nd	Penguard HB Grey	125																										
3 rd	Penguard HB White																											
Tot al		250																										
BLACK WATER TANK, AREA- 06 SQ MTR																												
HA-1017	Remove the black water from the tanks, clean with liquid detergents and scrap the damaged paint, carry out 100% survey by the surveyor. Repaint the tanks as per the paint scheme. Paint yard supply.			DO PAINT YARD SUPPLY. SERVICE OF LRS TO BE ARRANGED BY YARD. CAPACITY- 01 TON																								
EQUIPMENT: GENERAL COMPARTMENTS.NO.1 DECK ABOVE AND BELOW, MAKE: ABG SHIP YARD, AREA:230 SQ.M																												
HA-1018	100% internal area including bilge to be cleaned, visually inspected and report is to be rendered with LRS surveyor's recommendations.			DO PAINT YARD SUPPLY. SERVICE OF LRS TO BE ARRANGED BY YARD.																								

EQUIPMENT: SCUPPER AND DRAINS MAKE: ABG SHIP YARD																			
HA-1019	All scupper valves are to be removed and overhauled and refitted. Size: 40mm ; Qty : 02 No.			DO . MATERIAL YARD SUPPLY															
HA-1020	Following drain pipe lines to be chemically cleaned and pressure tested.			DO . MATERIAL YARD SUPPLY MATERIAL PVC															
	Sr	Description	Size		Testing Pressure														
	(a)	Wash basin drain	40 mm dia X 5 mtrs Length		01 Bar														
	(b)	Galley drain	40 mm dia X 3 mtrs Length		01 Bar														
EQUIPMENT: BOAT DAVIT AND SLINGS MAKE: ZODIAC																			
HA-1021	Survey and load test davits together with all associated wire ropes, blocks and fittings for SWL. Running and Static load test to be carried out with boat. Load Test certificate to be provided. Wire rope : Length- 20 m , Dia : 08 mm; 06 strand, SWL-360 kgs.			DO AS PER TRIAL PROTOCOL															
EQUIPMENT: ANCHOR AND CHAIN CABLE ARRANGEMENT MAKE: SHIP EQUIPMENTS, NETHERLAND, QTY:01 NO																			
HA-1022	Anchor (HHP stockless, 117 kg, Qty- 01 No.) and Cable (U2 grade DIN 766,13 mm, 110 m) Dismantle the chain cable from cable locker and lay down on dock floor. Clean and paint as per the under mentioned scheme(Area 25 Sqmtr) with cable marking. Clean the anchor and, survey and record the readings. Survey certificate to be rendered with class surveyor (LRS) recommendation. Marking of cable to be done as per policy in vogue. <table><tr><td>Coat</td><td>Paint name / colour</td><td>DFT</td><td>Pre treatment</td></tr><tr><td>1</td><td>Ballastick Black, Black</td><td>75</td><td rowspan="3">Power tool cleaning (SA12 according to ISO 8501-1:1988)</td></tr><tr><td>2</td><td>Ballastick Black, Black</td><td>75</td></tr><tr><td colspan="2">Total</td><td>150</td></tr></table>			Coat	Paint name / colour	DFT	Pre treatment	1	Ballastick Black, Black	75	Power tool cleaning (SA12 according to ISO 8501-1:1988)	2	Ballastick Black, Black	75	Total		150	DO SERVICE OF LRS TO BE ARRANGED BY YARD.	
Coat	Paint name / colour	DFT	Pre treatment																
1	Ballastick Black, Black	75	Power tool cleaning (SA12 according to ISO 8501-1:1988)																
2	Ballastick Black, Black	75																	
Total		150																	
HA-1023	Anchor chain cable to be tested and certificate to be rendered.			DELETE															
Defect Sl.	Description of Defect			Final RFIC Remarks															
EQUIPMENT: ANCHOR WINDLASS, MAKE: MUIR ENGG. AUS , TYPE: VRC 4500																			
HA-1024	Dismantle the deck gear clean all running parts. Strip and inspect windlass brake mechanism. Examine brake linings, pins, and bushes for wear and tear. Drain oil from gearbox and refill. Cable holder Gypsy and drums to be dismantled examine for wear and deterioration. Windlass to be overhauled and operation to be proved.			DO MATERIAL YARD SUPPLY. SPARES – CG SUPPLY															
EQUIPMENT: CABLE LOCKER MAKE: ABG SHIP YARD																			
HA-1025	Clean cable locker and remove dirt and grease. Paint the cable locker as per paint scheme mentioned below. Replace hardwood lining for insulation inside locker deteriorated. Clean the drain pipe from cable locker. <table><tr><td>Coat</td><td>Paint name / colour</td><td>DFT</td></tr><tr><td>1</td><td>Penguard HB Grey</td><td>125</td></tr><tr><td>2</td><td>Penguard HB, White</td><td>125</td></tr><tr><td>3</td><td>Penguard HB Grey</td><td></td></tr><tr><td colspan="2">Total</td><td>250</td></tr></table>			Coat	Paint name / colour	DFT	1	Penguard HB Grey	125	2	Penguard HB, White	125	3	Penguard HB Grey		Total		250	DO
Coat	Paint name / colour	DFT																	
1	Penguard HB Grey	125																	
2	Penguard HB, White	125																	
3	Penguard HB Grey																		
Total		250																	
EQUIPMENT: OFFICERS & SAILORS BATHROOM MAKE: BROWN BROARYLITE CO. AUS																			
HA-1026	Remove drain pipe of officer's and sailor's bathroom & toilet and chemically clean and fit with new gaskets. length – 05 Mtrs, 125 NB, Material- SS & Length- 15 Mtrs. Dia- 40 NB. Material- PVC			DO. CHEMICAL CLEANING															

HA-1027	General Services. The following yard services to be provided during docking period. (a) Suitable accommodation for one Officer, 04 sub-ordinate officer and 07 other ranks with controlled environment. (b) Fresh water 01 ton/day and potable drinking water 50 Ltrs/ day. (c) Fire main pressure 3-5 bar for 24 hours (d) 415V, 03 phase, 50 Hz, 20 Amp shore supply with neutral. (e) Separate bathroom and toilet facility for Officers, SOs and other crew members separately. (f) Telephone connections with fax and broad band facility separately for entire period of refit/ 02 nos mobile phone & 01 data card for internet. (g) One Staff car and one transport for Captain and ship's company respectively (10 hrs./100 Kms. per day) (h) Office space for Commanding Officer and crew separately. (j) Empty container in good condition for stocking the reserve LSHFSD before docking. (k) Galley with Gas Stove and Gas cylinder .	DO
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(B) ENGINEERING

Defect Sl.	Description of Defect	Final RFIC Remarks												
UNDER WATER PACKAGE EQUIPMENT: SEA WATER SYSTEM														
EA-3001	Overhaul and pressure test all under water valves up to 3.0 Kg/cm2. (Mat: SS) (a) 250 NB butterfly valve - 02 No. (b) 125 NB butterfly valve - 02 No. (C) 50 NB butterfly valve - 01 No.	DO MATERIAL YARD SUPPLY SPARES- CG SUPPLY												
EA-3002	Overhaul and pressure test all overboard valves up to 5.0 kg/cm2. (Mat : SS) (a) 100 NB butterfly valve - 02 Nos. (b) 80 NB butterfly valve - 04 Nos. (c) 32 NB butterfly valve - 04 Nos. (d) 40 NB butterfly valve - 03 Nos. (e) 50 NB butterfly valve - 03 Nos. (f) NRV 50 NB - 03 Nos.	DO MATERIAL YARD SUPPLY SPARES- CG SUPPLY												
EA-3003	02 in nos. Main Sea Chest Strainers Bodies to be removed /cleaned and fitted back. Renew strainer and guide. Material Yard Supply. Mat: SS Size: 800mmX 300mm Thickness: 02mm	DO												
EA-3004	01 in no. Sea Chest Strainer Body for engine driven bilge pump to be removed /cleaned and fitted back. Renew strainer and guide. Material Yard Supply. Mat: SS Size: 200mmx 80 mm Thickness: 02mm	DO												
UNDER WATER PACKAGE EQUIPMENT: PUMP UNIT, IMPELLER SHAFTING, GUIDE VANE AND CHAMBER MAKE: KAMEWA, CENTA ,SKF,QTY : 02 NOS (PORT & STBD)														
EA-3005	Carryout pressure test and readjustment of power take off pump.	FUNCTIONAL TEST BY PAC FIRM M/S ROLLS ROYCE, MUMBAI/ YARD. ADDITIONAL WORKS BASED ON RECOMMENDATIONS. SPARES CG SUPPLY												
EA-3006	Carryout pressure test of motor driven oil pump.													
EA-3007	Carryout pressure test, function test and readjustment of tank with valve manifold.													
EA-3008	Inspect shaft condition and arrangement.													
EA-3009	Carryout functional test of control system component and readjustment.													
EA-3010	Change all hoses. (even if there are no visual defects).(Material yard supply). Hoses to withstand pressure of 210 bar. size as follows <table border="1"> <thead> <tr> <th>SIZE</th><th>QTY</th><th>REMARKS</th></tr> </thead> <tbody> <tr> <td>Internal Dia- 12.5 mm Length - 80 cm</td><td>12 nos</td><td rowspan="4">All hoses to be supplied with union adaptor or ends. SS wire braided hose with rubber coating</td></tr> <tr> <td>Internal Dia- 19.5 mm, Length - 80 cm</td><td>02 nos</td></tr> <tr> <td>Internal Dia- 12.5 mm , Length - 1.2 Mtrs</td><td>02 nos</td></tr> <tr> <td>Internal Dia- 12.5 mm ,Length - 1.8 Mtrs</td><td>02 nos</td></tr> </tbody> </table>	SIZE	QTY	REMARKS	Internal Dia- 12.5 mm Length - 80 cm	12 nos	All hoses to be supplied with union adaptor or ends. SS wire braided hose with rubber coating	Internal Dia- 19.5 mm, Length - 80 cm	02 nos	Internal Dia- 12.5 mm , Length - 1.2 Mtrs	02 nos	Internal Dia- 12.5 mm ,Length - 1.8 Mtrs	02 nos	18 NOS EXTERNAL HOSES TO BE RENEWED AS PER SAMPLE
SIZE	QTY	REMARKS												
Internal Dia- 12.5 mm Length - 80 cm	12 nos	All hoses to be supplied with union adaptor or ends. SS wire braided hose with rubber coating												
Internal Dia- 19.5 mm, Length - 80 cm	02 nos													
Internal Dia- 12.5 mm , Length - 1.2 Mtrs	02 nos													
Internal Dia- 12.5 mm ,Length - 1.8 Mtrs	02 nos													
EA-3011	Carryout all test of hydraulic system including valves, pressure, flow, temperature, level switches and pressure gauges for correctness. Material yard supply.	FUNCTIONAL TEST BY PAC FIRM M/S ROLLS ROYCE, MUMBAI/YARD. ADDITIONAL WORKS BASED ON RECOMMENDATIONS. SPARES CG SUPPLY												

EA-3012	Following hydraulic system valves to be overhauled and pressure tested for 05 bar.	DELETE						
	<table><tr><td>Description</td><td>Qty.</td></tr><tr><td>Ball valve</td><td>05 nos</td></tr><tr><td>Quick closing valve</td><td>02 nos</td></tr></table>		Description	Qty.	Ball valve	05 nos	Quick closing valve	02 nos
Description	Qty.							
Ball valve	05 nos							
Quick closing valve	02 nos							
EA-3013	Renew 04 nos. flange arresting valves and Examine tank sounding and vent pipes for defects.							
EA-3014	Approx 10 mtr hydraulic system pipe lines to be removed, cleaned, pressure tested and fitted back with new gaskets.							
Defect Sl.	Description of Defect	Final RFIC Remarks						
AC PLANT, MAKE-HEINEN & HOPMAN, TYPE- 6DA 5372 BA 0650								
EA-3015	Inspect and chemical clean condenser tubes	DO						
EA-3016	Inspect sheets and gaskets of condenser, operation of two way solenoid valve and expansion valve	DO						
EA-3017	Replace compressor oil. oil CG supply.	DO						
AHU (AC), MAKE-ZECO INDIA LTD, TYPE- DLH 08 C 0198, NO. OF FITTED -01								
EA-3018	Compressor to be top overhauled. spares CG supply	DO THROUGH PAC FIRM, M/S H & H/YARD						
EA-3019	Carry out chemical cleaning of cooling coil and check for corrosion and leakage	DO						
EA-3020	Blow through the cooling coil with air stream from counter flow direction	DO						
EA-3021	Vacuum and pressure test to be carried out for 24 hrs.	DO						
FM 200 FIRE FIGHTING SYSTEM, MAKE- M/s TYCO FIRE FIGHTING, TYPE- FM 200, QTY- 01								
EA-3022	Following jobs to be carried out. (a) Remove any nozzle from piping to allow any foreign material to blow clear (b) Remove all pressure operated control from FM 200 cylinders (c) Open distributing valve and keep long enough cleanliness of pipe. (d) Reconnect all control heads (e) Overhaul the control system, monitoring system and fire detection system (f) Weigh the cylinder and re-charge, (if weight loss is more than 10%) (g) Clean discharge nozzles	DO. FUNCTIONAL TEST TO BE CARRIED OUT BY PAC FIRM, ANY OTHER REPAIRS WILL BE UNDER AWRP						
OILY WATER SEPARATOR, MAKE- VICTOR MARINE, TYPE-VICTOR MINISEP C50500, NO. OF FITTED - 01								
EA-3023	(a) Drain both separator stages & remove top covers and overhaul all valves. (Qty: 07 No, Size -20 mm) (b) Wash through the separator vessels using hot water and clean all valves. (c) Change all gasket and joints. (d) Reset pressure relief / water valves. (e) Plant to be proved for auto operation.	DO. UNDERTAKE THROUGH OEM/YARD						
SUBMERSIBLE PUMP, MAKE-MODY, TYPE-120 N M, NO. OF FITTED -02								
EA-3024	Check shaft seal if worn out replace it, seal – CG supply	DO. UNDERTAKE THROUGH OEM/YARD						
CENTRIFUGE, MAKE-WESTAFALIA, TYPE-OSD 6-91-067- 01 NO								
EA-3025	Inspect thickness of clutch shoes, break lining, bowl and clean inside of the upper section of frame.	DO. SPARES AND OIL CG SUPPLY						
EA-3026	Replace all gaskets, retaining string, drive belt, spindle ball bearing, vibration absorber and oil.							
BILGE GS PUMP, MAKE- AZCUE, TYPE- CA50-3A – 01 no.								
EA-3027	Following jobs to be undertaken post dismantling the pump (a) Replace bearings (b) Replace the mechanical seals (c) Check the tip clearance (d) Check the wear and tear on impeller (e) Replace wear ring and guide ring	DO. SPARES CG SUPPLY						
FUEL OIL SYSTEM, MAKE- THORNY CROFT AUS – 02 NOS								
EA-3028	02 in no. Fuel Transfer Pump to be overhauled and proved.							
EA-3029	09 in no. quick closing valve to be overhauled and pressure tested for 01 bar. (40 NB - 07 no, 25 NB : 02 NOS.) Mat: SS	DO. MATERIAL YARD SUPPLY						
EA-3030	02 in no. Fuel Priming Hand pump of both main engine to be overhauled and proved. Type: Diaphragm.	DO. SPARES YARD SUPPLY.						

Defect Sl.	Description of Defect	Final RFIC Remarks																														
EA-3031	Following valves of fuel system to be overhauled and pressure tested for 05 bar. <table><tr><th>Description</th><th>Qty.</th></tr><tr><td>Ball valve 40 NB</td><td>02 NOs</td></tr><tr><td>Ball valve 40 NB (3 pieces)</td><td>04 nos</td></tr><tr><td>Ball valve 20 NB</td><td>01 no</td></tr><tr><td>NRV 40 NB</td><td>01</td></tr><tr><td>40 NB emergency shut of valves</td><td>02</td></tr><tr><td>25 NB emergency shut off valve</td><td>01</td></tr><tr><td>NRB 25 NB</td><td>01</td></tr></table>	Description	Qty.	Ball valve 40 NB	02 NOs	Ball valve 40 NB (3 pieces)	04 nos	Ball valve 20 NB	01 no	NRV 40 NB	01	40 NB emergency shut of valves	02	25 NB emergency shut off valve	01	NRB 25 NB	01	DELETE														
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25 NB emergency shut off valve	01																															
NRB 25 NB	01																															
EA-3032	Approx 20 mtr Fuel system pipe lines to be removed, chemically cleaned, pressure tested and fitted with new gaskets.	DELETE																														
SEA WATER COOLING SYSTEM																																
EA-3033	Following valves of sea water system to be overhauled and pressure tested for 05 bar. <table><tr><th>Description</th><th>Qty.</th></tr><tr><td>Butterfly Valve 150NB</td><td>01 No</td></tr><tr><td>Butterfly Valve 250NB</td><td>01 No</td></tr><tr><td>Butterfly Valve 40NB</td><td>02 No</td></tr><tr><td>Butterfly Valve 80NB</td><td>01 No</td></tr><tr><td>Butterfly Valve 100NB</td><td>01 No</td></tr><tr><td>ME EXHAUST O/B discharge valve</td><td>01 No</td></tr><tr><td>Ball valve 20 NB</td><td>01 No</td></tr><tr><td>Ball valve 15 NB</td><td>01 No</td></tr><tr><td>Butterfly Valve 40NB (3 piece)</td><td>01 No</td></tr></table>	Description	Qty.	Butterfly Valve 150NB	01 No	Butterfly Valve 250NB	01 No	Butterfly Valve 40NB	02 No	Butterfly Valve 80NB	01 No	Butterfly Valve 100NB	01 No	ME EXHAUST O/B discharge valve	01 No	Ball valve 20 NB	01 No	Ball valve 15 NB	01 No	Butterfly Valve 40NB (3 piece)	01 No	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY										
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ME EXHAUST O/B discharge valve	01 No																															
Ball valve 20 NB	01 No																															
Ball valve 15 NB	01 No																															
Butterfly Valve 40NB (3 piece)	01 No																															
EA-3034	Overhaul and pressure test all under water valves up to 3.0 Kg/cm2. (Mat : SS) (a) 200 NB butterfly valve - 02 No. (b) 100 NB butterfly valve - 02 No. (c) 125 NB butterfly valve - 02 No.																															
BILGE AND FIRE MAIN SYSTEM																																
EA-3035	Overhaul and pressure test following bilge and firemain system valves . <table><tr><th>Description</th><th>Qty. in nos</th></tr><tr><td>Ball valve 50 NB</td><td>02</td></tr><tr><td>NRV 50 NB</td><td>01</td></tr><tr><td>Butter fly valvr NB</td><td>01</td></tr><tr><td>Ball valve 25 NB</td><td>01</td></tr><tr><td>NRV 20 NB</td><td>01</td></tr><tr><td>SDNR valve 32 NB</td><td>02</td></tr><tr><td>Ball valve 32 NB</td><td>01</td></tr><tr><td>NRV 32 NB</td><td>01</td></tr><tr><td>Sea chest inlet valve 50 NB</td><td>01</td></tr><tr><td>Remotedly operated ball valve 32 NB</td><td>01</td></tr><tr><td>SDNR valve 50 NB</td><td>01</td></tr><tr><td>SDNR valve 25 NB</td><td>01</td></tr><tr><td>NRV 25 NB</td><td>01</td></tr><tr><td>Ball valve 10 NB</td><td>01</td></tr></table>	Description	Qty. in nos	Ball valve 50 NB	02	NRV 50 NB	01	Butter fly valvr NB	01	Ball valve 25 NB	01	NRV 20 NB	01	SDNR valve 32 NB	02	Ball valve 32 NB	01	NRV 32 NB	01	Sea chest inlet valve 50 NB	01	Remotedly operated ball valve 32 NB	01	SDNR valve 50 NB	01	SDNR valve 25 NB	01	NRV 25 NB	01	Ball valve 10 NB	01	DO. EXCEPT (i). SPARES CG SUPPLY, MATERIAL YARD SUPPLY
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SDNR valve 25 NB	01																															
NRV 25 NB	01																															
Ball valve 10 NB	01																															
EA-3036	Approx 20 mtr system pipe lines to be removed, chemically cleaned, pressure tested and fitted with new gaskets.	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY																														

Defect Sl.	Description of Defect	Final RFIC Remarks																																	
FRESH WATER SYSTEM																																			
EA-3037	Overhaul and pressure test following fresh water system valves <table border="1"><thead><tr><th>Description</th><th>Qty. in nos</th></tr></thead><tbody><tr><td>Ball valve 3/4 " (20 BSP)</td><td>02</td></tr><tr><td>Ball valve 1/2 " (15 BSP)</td><td>02</td></tr><tr><td>NRV 20 BSP</td><td>01</td></tr><tr><td>Ball valve 20 BSP</td><td>03</td></tr><tr><td>Safety valve 1/2"</td><td>01</td></tr><tr><td>Ball valve 16 mm OD</td><td>02</td></tr><tr><td>Ball valve 20 mm OD</td><td>03</td></tr><tr><td>Flush valve</td><td>01</td></tr><tr><td>NRV 3/4 " BSP</td><td>01</td></tr><tr><td>NRV 1/" BSP</td><td>01</td></tr></tbody></table>	Description	Qty. in nos	Ball valve 3/4 " (20 BSP)	02	Ball valve 1/2 " (15 BSP)	02	NRV 20 BSP	01	Ball valve 20 BSP	03	Safety valve 1/2"	01	Ball valve 16 mm OD	02	Ball valve 20 mm OD	03	Flush valve	01	NRV 3/4 " BSP	01	NRV 1/" BSP	01	DELETE											
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Flush valve	01																																		
NRV 3/4 " BSP	01																																		
NRV 1/" BSP	01																																		
EA-3038	Approx 15 mtr fresh system pipe lines to be removed, chemically cleaned, pressure tested and fitted with new gaskets.	DELETE																																	
LUB OIL / DIRTY OIL SYSTEM																																			
EA-3039	Overhaul and pressure test following system valves. <table border="1"><thead><tr><th>Sl.</th><th>Description</th><th>Qty.</th></tr></thead><tbody><tr><td>a)</td><td>High pressure Ball valve 1/2" BSP</td><td>03</td></tr><tr><td>b)</td><td>Ball valve 50NB</td><td>01</td></tr><tr><td>c)</td><td>Ball valve 2" BSP</td><td>01</td></tr><tr><td>d)</td><td>Ball Valve 1/2" BSP</td><td>01</td></tr><tr><td>e)</td><td>NRV SAE 1"</td><td>01</td></tr><tr><td>f)</td><td>Bal valve 20 NB(3 pieces)</td><td>02</td></tr><tr><td>g)</td><td>NRV 25 NB</td><td>01</td></tr><tr><td>h)</td><td>Ball valve 25 NB</td><td>01</td></tr><tr><td>i)</td><td>NRV 20 NB</td><td>01</td></tr><tr><td>j)</td><td>Ball valve 40 NB</td><td>01</td></tr></tbody></table>	Sl.	Description	Qty.	a)	High pressure Ball valve 1/2" BSP	03	b)	Ball valve 50NB	01	c)	Ball valve 2" BSP	01	d)	Ball Valve 1/2" BSP	01	e)	NRV SAE 1"	01	f)	Bal valve 20 NB(3 pieces)	02	g)	NRV 25 NB	01	h)	Ball valve 25 NB	01	i)	NRV 20 NB	01	j)	Ball valve 40 NB	01	DELETE
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h)	Ball valve 25 NB	01																																	
i)	NRV 20 NB	01																																	
j)	Ball valve 40 NB	01																																	
EA-3040	Approx 10 mtr system pipe lines to be removed, chemically cleaned, pressure tested and fitted with new gaskets.	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY																																	
EA-3041	Overhaul semi rotary hand pump. spare yard supply.	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY																																	
EA-3042	Carry out pressure testing of flexible hoses	DELETE																																	
EMERGENCY FIRE PUMP, MAKE- AZUE & LOMBAR DINI, TYPE-M 036/20, QTY-01																																			
EA-3043	Carry out overhauling of emergency fire pump as per instructions laid down in manual. spare yard supply.	DELETE																																	
RO PLANT, MAKE- M/S ROCHEM TYPE- RO200DT 0125 PVC - 01 NO																																			
EA-3044	The following jobs to be undertaken on RO plant a) Replace mechanical seals of PK 30 pump as applicable ref chapter 5.6 b) Calibrate torque wrench c) Calibrate hand conductivity meter ref chapter 5.18 d) Inspect PS 51,PS 71, PS 81 pressure switches ref chapter 5.15	DO. BY PAC FIRM. SPARES CG SUPPLY, MATERIAL YARD SUPPLY																																	
AC CONDENSER PUMP MAKE- JP PUMP TYPE- FREE FLOW CENT PUMP – 01																																			
EA-3045	Following jobs to be undertaken on AC Condenser pump. Spare CG supply. a) Dismantle the pump b) Replace the bearings c) Replace the mechanical seal d) Check the tip clearances e) Check the wear and tear on impeller renew if required f) Change wear ring and guide ring	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY																																	

Defect Sl.	Description of Defect	Final RFIC Remarks
GREY WATER PUMP,MAKE- AZUE, TYPE- CA 32/0.5 NO-01		
EA-3046	Following jobs to be undertaken on Grey water pump. Spare CG supply a) Dismantle the pump b) Replace the bearings c) Replace the mechanical seal d) Check the tip clearances e) Check the wear and tear on impeller renew if required f) Change wear ring and guide ring	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY.
FRESH WATER PUMP, MAKE-AZUE, TYPE-MO 36/20, NO-01		
EA-3047	Following jobs to be undertaken on fresh water Grey water pump. Spare CG supply a) Dismantle the pump b) Replace the bearings c) Replace the mechanical seal d) Check the tip clearances e) Check the wear and tear on impeller renew if required f) Change wear ring and guide ring	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY
WATER SCOOTER, MAKE-YAMAHA, TYPE- VX 700, NO-01		
EA-3048	Following jobs to be undertaken on water scooter. Spare CG supply a) Check, clean & adjust spark plug b) Lubricate the lubricant points c) Check fuel system d) Replace fuel filter e) Check and clean fuel tank f) Check , clean oil injection system g) Check adjust carburetor h) Check adjust trolling speed i) Check carburetor throttle shaft j) Flush cooling water passages k) Check, clean water inlet strainer l) Clean bilge strainer m) Check impeller n) Check adjust jet trust nozzle angle o) Check adjust throttle cable p) Check adjust choke cable q) Check , replace stern drain plugs r) Check charge battery s) Check rubber coupling t) Check engine mount	DELETE
FUEL OIL TRANSFER PUMP, MAKE-AZCUE, TYPE-CA 32/0.5, NO-02		
EA-3049	Following jobs to be undertaken on Fuel oil transfer pump. Spare CG supply a) Dismantle the pump b) Replace the bearings c) Replace the mechanical seal d) Check the tip clearances e) Check the wear and tear on impeller renew if required f) Change wear ring and guide ring	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY
MACERATOR PUMP, MAKE-MOYNO INC, USA, TYPE - 42202391 4220200, NO- 01 A/C COMP		
EA-3050	Overhaul and examine mechanical seal on the macerator, two cutter rings, the impeller & the pumping element. Replace all components when show sign of wear and damage. Spare – CG supply	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY
EXHAUST SYSTEM, MAKE- THORNY CROFT, QTY -02		
EA-3051	Overhaul butterfly valves. Spare CG supply. In ways jobs includes renewal of promatic / ceramic gasket in the exhaust system and DP test of bulkhead flange joint on port and starboard side.	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY

(C) ELECTRICAL

Defect Sl.	Description of Defect	Final RFIC Remarks
UNDER WATER PACKAGE EQUIPMENT: ICCP, MAKE: CUPROBAN , UK, QTY: 01 NOS		
LA-5001	Inspect Shield Paint and paste around the anodes and reference electrode. If peeled off, the area to be recoated.	DO. THROUGH PAC FIRM M/S SARGAM METALS, CHENNAI
LA-5002	Inspect Anode and Reference Electrode for any mechanical damage and deterioration. Replace zinc anodes.	
LA-5003	Inspect water seepage in the junction box.	
LA-5004	Carryout functional test and calibrate all meters	
LA-5005	Carryout insulation checks w.r.t hull.	
EM LOG MAKE: WALEKR 4040, QTY:01 NO		
LA-5006	Carry out calibration of EM log and compare the readings with GPS speed. Difference should be within permissible limits.	DO. THROUGH PAC FIRM M/S ELCOME MARINE SERVICES
GYRO COMPASS , MAKE- ANSCHUTZ , TYPE- STD 22, QTY -01		
LA-5007	Open master compass and dismantle the gyro sphere & inspect all other sub assembly if any damage deterioration, change where ever necessary.	DO. THROUGH PAC FIRM M/S ELCOME MARINE SERVICES
LA-5008	Change the supporting liquid and distilled water, replacing filter ring, Teflon washer , gasket and distilled water	
REPEATER COMPASS, MAKE- ANSCHUTZ, TYPE- STD-22 QTY- 05		
LA-5009	Open repeaters, clean it and apply thin coat of appropriate grease to gimbals, gear, and wheel or teeth belt if required.	DO. SPARES CG SUPPLY, MATERIAL YARD SUPPLY
ECHO SOUNDER, MAKE- KODEN, TYPE- CVS 833, QTY -01		
LA-5010	Following jobs to be undertaken on Echo sounder a) Check transducer for water tightness and check transducer cables for insulation b) Calibrate equipment & check accuracy	DO. THROUGH PAC FIRM M/S ELCOME MARINE SERVICES
MAIN ENGINE CONTROLS, MAKE- MTU DETROIT DIESEL		
LA-5011	Carry out functional test and calibrate & prove all sensors and safeties of engines.	DO. THROUGH PAC FIRM M/S MTU.
LA-5012	Check the condition to all electrical connection in LOP, Bridge & Fly Bridge for loose connection, deterioration of wiring / cables and replace if required.	DO. THROUGH PAC FIRM M/S MTU. ANY REPLACEMENT AGAINST AWRF.
RADAR, MAKE-FURUNO, TYPE- FAR 2117, FAR 28 x 7 SERIES		
LA-5013	Carry out service by service staff as per instructions laid down in Maintenance manual	DO. THROUGH PAC FIRM M/S MOOLUBHOY & SONS.
WIND MEASURING SYSTEM, MAKE- WALKER, TYPE-7070 DATA P 249 QTY -01		
LA-5014	Following jobs to be undertaken. a) Check the speed sensor bearing. Replace it. b) Renew the damping fluid for the wind direction sensor	DO. THROUGH PAC FIRM M/S ELCOME MARINE SERVICES. SPARES CG SUPPLY.
GPS NAVIGATOR, MAKE- M/S KODEN ELECTRIC, TYPE- KGP 920		
LA-5015	Carry out functional checks of all switches, light and panel	DELETE
MF/HF TX/RX 150/250 W CONTROL UNIT CU 5100, MAKE- SAILOR, QTY -01		
LA-5016	Performance checks to be carried out by service engineer as per service manual	DO. THROUGH PAC FIRM M/S ELCOME MARINE SERVICES.
VHF TX/RX, MAKE- SAMYUNG, TYPE- STR 6000 A, QTY – 02NOS		
LA-5017	Performance checks to be carried out by service engineer as per service manual	DO. THROUGH PAC FIRM M/S ELCOME MARINE SERVICES.
ALL MODE COMMUNICATION RECEIVER 100 KHZ TO 2600 MHZ, MAKE- YAESU, TYPE- VR 5000		
LA-5018	Performance checks to be carried out by service engineer as per service manual	DO. THROUGH PAC FIRM
Defect Sl.	Description of Defect	Final RFIC Remarks
HF POWER SUPPLY UNIT/ BATTERY CHARGER, MAKE- SAILOR / ELCOME, TYPE- 24 V DC, QTY – 01		
LA-5019	Performance checks to be carried out by service engineer as per service manual	DO

NAVTEX RECEIVER, MAKE-SAMYUNG, TYPE- SAN 300		
LA-5020	Carry out optimum performance check	DO
EPRIB, MAKE- SAILOR, TYPE- SE406, QTY-01		
LA-5021	Carry out performance check	DO
GMDSS ALARM UNIT, MAKE-SAILOR, TYPE- AP5065, QTY - 01		
LA-5022	Performance checks to be carried out	DO
SEARCH LIGHT, MAKE- FRANCIS, TYPE- FX 380 RC		
LA-5023	Performance checks to be carried out	DO
FOG HORN, MAKE-ZOLLENER, TYTPE- 230 V AC, QTY- 01		
LA-5024	Overhaul The Equipment completely	DO
LA-5025	Check the components for sign of deterioration. Replace the deteriorated wiring, components.	DO
WINDOW WIPING SYSTEM, MAKE- HEPWARTH MARINE, TYPE-50 NM, QTY - 05		
LA-5026	The following jobs to be undertaken a) Check the condition of rigid blades. b) Check blade arm and spring for any damage c) Check spray nozzle are free from blockages d) Carry out overhauling of motors	DO. SPARES YARD SUPPLY.
FIRE & SMOKE DETECTION ALARM PANEL, MAKE- M/s TYCO MARINE SYSTEM, TYPE- T-1008, QTY- 01		
LA-5027	Carry out capacity test of batteries and carry out performance check	SS
ELECTRIC COOK TOP (GALLEY HOT PLATES), MAKE- SHARADA ENGG, BARODA, QTY- 02NOS		
LA-5028	a) Check insulation of heating elements. b) Check function of range switches.	SS
BATTERIES 200 AH / 150 AH, MAKE- EXIDE EXPRESS, TYPE- LEAD ACID, QTY – 16 NOS		
LA-5029	Carry out capacity test	SS
SART, MAKE-M/s SAMYUNG, TYPE-SAR-09, QTY-02 NOS		
LA-5030	Carry out function test as specified in service manual. SART to be functionally tested using a radar signals as recommended in the COMSAR guidelines in manual.	SS
AIS, MAKE-M/s SAMYUNG, TYPE- SI-30, QTY-01 NO		
LA-5031	Carry out function test as specified in service manual using a radar signals as recommended guidelines.	SS
ECDIS, MAKE- FURUNO, TYPE- FEA-2107, QTY- 01		
LA-5032	Carry out service as per instructions laid down in maintenance manual.	SS
Defect Sl.	Description of Defect	Final RFIC Remarks
TELEPHONE EXCHANGE, MAKE- ALPHACOM, TYPE- STENTOFON, QTY- 01 NO		
LA-5033	Carry out functional test of all components as per maintenance manual.	DO. THROUGH PAC FIRM M/S RK ELECTRONICS / YARD
DISTRIBUTION BOARDS, MAKE- MARINE ELECTRICAL, QTY – 08 NOS		
LA-5034	Carry out functional test of all MCBs	SS
Starter panels, make- marine electrical, qty – 15 nos		
LA-5035	Carry out functional test of all overload relays.	DO. FUNCTIONAL TEST & CALIBRATION.
DIESEL ALTERNATOR , MAKE – CATER PILLAR, QTY- 02, PAC FIRM- M/S GMMCO		
LA 5036	Inspect, clean winding, re-varnish and improve insulation, if required change bearing.	DO. THROUGH PAC FIRM M/S GMMCO
LA 5037	Overhaul full Generator assembly including AVR, battery starter and space heater.	

LA 5038	Check capacity of generator with full load tank test 100%, 75% & 50%	
LA 5039	Following safety trips and alarm sensor to be checked and calibrated, if required (i) Low lub oil pressure (ii) High water temperature (iii) Over speed trip	