

**SCOPE OF WORK**

**Scope of Work.** Detailed Scope of work/ Services, which may be required to be rendered, is placed below. The FIRM is required to submit quotation for services as per format for quotation placed at GeM Portal.

**CAMC for equipment and systems of FOCWF Inspection BARGE**

Scope of work for CAMC for equipment and systems of FOCWF Inspection BARGE						
ENGINEERING						
SE R	SECTION	ROUTINE	DESCRIPTION	No of Equipm ent	No o f Routi ne Per Year	No of Routi ne in 3 Yrs
<b>GEAR BOX (MAKE-HANGZHOU ADVANCE GEARBOX GROUP CO: LTD, MODEL-HCA302)</b>						
1	ENGG	250 HOURLY/ MONTHLY	6 <ul style="list-style-type: none"> <li>• CHECK FOR ANY OIL LEAK, RECTIFY IF ANY</li> <li>• TIGHTEN ALL EXTERNAL THREADED FASTENERS</li> <li>• ADJUST SHIFT CONTROL LINKAGE</li> <li>• CLEAN FILTER ELEMENT, REPLACE IF REQUIRED</li> <li>• CLEAN TRANSMISSION EXTERNALLY</li> <li>• LUBRICATE EXTERNAL MOVING PARTS</li> <li>• INSPECT SEALING RING AT OIL INLET</li> </ul>	2	2	6
<b>DA(MAKE- GREAVES COTTON LTD, MODEL-4G11T)</b>						
2	ENGG	250 HOURLY / MONTH	12 <ul style="list-style-type: none"> <li>•CLEAN COARSE FUEL FILTER</li> <li>•CHANGE AIR FILTER</li> <li>•CHANGE OIL FILTER</li> <li>•CHANGE FUEL FILTER</li> <li>•CHANGING OIL</li> <li>•CLEANING UP RADIATOR FINS</li> <li>•ADD COOLANT ADDICTIVE</li> <li>•CHECKING UP VALVE CLEARANCE AND SET IF NECESSARY</li> <li>•250 HOURS ROUTINE</li> </ul>	1	1	1
3	ENGG	1000 HOURS OR 24 MONTH	<ul style="list-style-type: none"> <li>•250 HOURS ROUTINE</li> </ul>	1	1	3

- TIGHTENING UP EXTERNAL FASTENERS
- CLEAN INJECTORS,NOZZLE AND SPRAY CHANGER IF NECESSARY
- CLEANING OF FUEL TANK(OR ATLEAST ONCE IN A YEAR)
- CHECK ENGINE PROTECTION SYSTEM
- CLEANING CAC AND HE

**EDA (MAKE COTTON GREAVES , MODEL-5/4 KVA)**

4	ENGG	250 HOURLY/ Yearly	<ul style="list-style-type: none"> <li>• REPLACE OIL</li> <li>• REPLACE OIL FILTER</li> <li>• REPLACE FUEL FILTER</li> <li>• INSPECT AIR FILTER, CLEAN IF REQUIRED</li> <li>• TEST COOLANT SAMPLE, TOP UP IF REQUIRED</li> <li>•INSPECT ALL BELTS AND HOSES,REPLACE IF REQUIRED</li> <li>•CHECK ALL ELECTRICAL CONNECTIONS, TIGHTEN ALL</li> </ul>	1	1	3
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5	ENGG	750HOURLY/ YEARLY	<ul style="list-style-type: none"> <li>•CHANGE OIL</li> <li>•REPLACE FUEL ,OIL AND COOLANT FILTERS</li> <li>•CHECK AND ADJUST VALVE CLEARANCE</li> <li>•FUEL TANK CLEANING</li> <li>•CLEAN EXHAUST SILENCER</li> <li>•FLUSH THE COOLANT SYSTEM</li> <li>•CARRY OUT LOAD TEST</li> </ul>	1	1	1
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**PROPELLER**

6	ENGG	ANNUAL	<ul style="list-style-type: none"> <li>•BOTH PROPELLER WITH THREADED KEY WAYS ARE TO BE EXAMINED AND REPAIRED/REPLACED AS NECESSARY</li> </ul>	1	1	3
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			<ul style="list-style-type: none"> <li>•EXAMINE PROPELLER LOCK NUTS AND CUPS, CHANGE IF REQUIRED</li> <li>•INSPECT A &amp; P BRACKET ,REPAIR REPLACE DEFECTIVE</li> <li>•COMPONANTS OR ASSEMBLIES AS NECESSARY, CHECK BUSHES CLEARANCE</li> <li>•REPLACE SHAFTS ZINC ANODES</li> <li>•INSPECT STERN TUBES, CHECK CLERANCE, REPAIR /REPLACE DEFECTIVE COMONANTS</li> <li>•INSPECT STERN TUBES GLAND PACKING, REPLACE IF REQUIRED</li> <li>•INSPECT STERN TUBE COOLING SYSTEM, REPAIR /REPLACE DEFECTIVE COMONANTS</li> <li>•UNDERTAKE ALIGNMENT CHECKS BETWEEN BOTH RG AND SHAFTS</li> </ul>			
<b>VALVES</b>						
7	ENGG	OCCASIONALLY/ANN UALLY	•OVERHAULING, REPAIR/REPLACEME NT OF ALL VALVES	8	1	3
<b>FRESH WATER SYSTEM</b>						
8	ENGG	SIX MONTHLY/ OCASSIONALY	<ul style="list-style-type: none"> <li>•CHECK OPERRATION OF PUMP, REPLACE OR REPAIRE IF ANY DEFECTIVE PART</li> <li>•CHECK OPERATION OF VALVES</li> <li>•CHECK HYDROPHORE TANKS AND SENSOR</li> <li>•CHECK FRESH WATER LEVEL INDICATOR SENSOR,REPLACE IF DEFECTIVE</li> <li>•CLEAN TANKS</li> </ul>	1	2	6
<b>BILGE OIL SPERATOR(MAKE-RIVERTTRACE, SMART BILGE)</b>						
9	ENGG	YEARLY	•REPLACE WIPER RING ON THE	1	1	3

			MANUAL CLEAN ASSEMBLY •CARRY OUT CALIBRATION OF SMART BILGE	1	1	3
<b>FIRE MAIN AND BILGE PUMP OUT SYSTEM</b>						
10	ENGG	YEARLY	•REPAIR /REPLACE BEARING, MECHANICAL SEAL, SLEEVES AND THRUST WASHER IF REQUIRED	1	1	3
			•REPAIR OR REPLACEMENT OF HYDRANTS IF DEFECTIVE	1	1	3
			•REPAIR OR REPLACE DEFECTIVE PRESSURE GAUGE	1	1	3
<b>STEERING SYSTEM &amp; EMERGENCY STEERING(MAKE- MAC-N-HOM, MODEL- JUMBOZ-500E</b>						
11	ENGG	YEARLY	•CHECK SYSTEM FOR OIL LEAKAGE,RECTIFY	1	1	3
			•REPLACE OIL	1	1	3
			•CHANGE HYDRAULIC ACTUATOR SEALS	1	1	3
			•INSPECT RUDDER AND REPLACE FASTENERS AND FITTINGS IF REQUIRED	1	1	3
<b>SPLIT ACS</b>						
12	ENGG	SIX MONTHLY	•ALL ACS SERVICING	5	1	15
		OCCASIONALLY	•REPLACE/ REPAIR IF ANY COMPONENTS DEFECTIVE	5	1	15
<b>GREY WATER SYSTEM</b>						
13	ENGG	MONTHLY /OCCASSIONALLY	•CHECK OPERATION OF PUMP,REPLACE OR REPAIR IF ANY DEFECTIVE PART	1	1	3
			•CHECK OPERATION OF VALVES	1	1	3
			•CHECK GREY WATER LEVEL INDICATOR SENSOR, REPLACE IF DEFECTIVE	1	1	3
<b>RO PLANT</b>						
14	ENGG	SIX MONTHLY	•SERVICING AS PER OEM MANUAL	1	1	3
		OCCASSIONALLY	•REPLACE/REPAIR IF ANY COMPONENTS FOUND DEFECTIVE	1	1	3
<b>DD PUMPS</b>						

15	ENGG	OCASSIONALLY	•REPAIRE OR REPLACE BEARING,MECHANICAL SEAL IF REQUIRED	1	1	3	
			•REPLACE OR REPLACE DEFECTIVE PART,IF ANY	1	1	3	
<b>SUBMERSIBLE PUMPS</b>							
16	ENGG	OCASSIONALLY	•REPAIRE OR REPLACE BEARING,MECHANICAL SEAL IF REQUIRED	1	1	3	
<b>MANUAL FIRE PUMP AND BILGE PUMP</b>							
17	ENGG	OCASSIONALLY	•REPAIRE OR REPLACE BEARING,MECHANICAL SEAL IF REQUIRED	1	1	3	
<b>FUEL SYSTEM</b>							
18	ENGG	OCASSIONALLY	ANNUAL	•CLEAN ALL TANKS	1	1	3
			•INSPECT PIPES AND UNIONS FOR ANY LEAKAGE AND RECTIFY	1	1	3	
			•REPAIR OR REPLACE DEFECTIVE VALVES	1	1	3	
			•REPAIR OR REPLACE DEFECTIVE SENSOR AND LEVEL GAUGE	1	1	3	
<b>ELECTRICAL BATTERIES</b>							
19	ELECTRICAL	SIX MONTHLY	• REMOVED BATTERY FROM BOX AND CLEAN WELL	12	24	72	
		ANNUAL ROUTINE	• OVERHAUL THE BATTERY AND REPLACE IF BER	12	12	36	
<b>SWITCHBOARD INCLUDING DC SWITCHBOARD/PANELS/DBS/JBS(415V,230V , 24VDC &amp; 12 VDC)</b>							
20	ELECTRICAL	MONTHLY	• INSPECT THE SWITCHBOARD CABLES/WIRING, LUGS, CONNECTORS AND OTHER COMPONENTS; CARRYOUT REPAIRS/REPLACEMENT OF COMPONENTS AS NECESSARY	1	1	3	
			• MEASURE INSULATION RESISTANCE: IF IT IS	1	1	3	

			<p>LESS THAN 2:0 MEGA OHMS, RECTIFY THE CAUSE OF LOW INSULATION</p> <ul style="list-style-type: none"> <li>• CHECK CONTROL SUPPLY VOLTAGE, IF FOUND UNSAT, D/DR TO BE CARRIED OUT</li> <li>• REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	1	1	3
			<ul style="list-style-type: none"> <li>• CALIBRATE INSTRUMENTATION AND RENDER CERTIFICATE</li> <li>• CHECK BREAKERS AND PROTECTIVE DEVICES FOR OPTIMUM PERFORMANCE IF DEFECTIVE REPLACE IT</li> </ul>	1	1	3
		ANNUAL		1	1	3
<b>RAYMARINE MFD, AIS, RADAR AND ECHO SOUNDER</b>						
21	ELECTRICAL	MONTHLY	<ul style="list-style-type: none"> <li>•CHECK AIS ANTENNA INTACTNESS AND SECURED PROPERLY AND CLEAN FOR ANY SALT DEPOSITE &amp; APPLY SILICON SEALENT ON THE END CONNECTORS FOR WATER PROFFING</li> <li>•CHECK THE INSULATION OF CABLE AND ANTENNA OF THE AIS UNIT</li> <li>•CHECK THE CONNECTION BETWEEN DISPLAY UNIT AND SENSOR IDS FASTENED PROPERLY</li> <li>•CHECK DISPLAY PERFORMANXCE, REPLACE IF SUBOPTIMAL</li> </ul>	1	4	12
			<ul style="list-style-type: none"> <li>•CHECK THE CONNECTION BETWEEN DISPLAY UNIT AND SENSOR IDS FASTENED PROPERLY</li> <li>•CHECK DISPLAY PERFORMANXCE, REPLACE IF SUBOPTIMAL</li> </ul>	1	4	12
			<ul style="list-style-type: none"> <li>•CHECK THE GROUNDING CABLE AND CLEAN THE CONTACTS AND RECONNECT IT</li> <li>•CHECK THE BUFFER UNIT FOR ANY DAMAGE AND PROPER FUNCTION</li> </ul>	1	1	3
22	ELECTRICAL	ANNUAL		1	1	3

			<ul style="list-style-type: none"> <li>•SWITCH ON EQUIPMENT AND SLECT PPI MODE BY ADJUSTING DESIRED RANGES</li> <li>•MEASURE CHARACTERISTICS IMPENDENCE OF ANTENNA FEEDER</li> <li>•CARRY OUT PERFORMANCE TEST &amp; FUNCTIONAL TEST AT SHOP FLOOR FOR HATS</li> <li>•TEST ALL MODULE AND PCBS AS PER TECHNICAL REPAIR AND MAINTENANCE MANUAL</li> <li>•CARRY OUT CLEANING OF ANTENNA AND PAINT WITH RF PAINT</li> <li>•RENEW ALL SHOCK VIBRATION MOUNTING AND EARTHING WIRE STRIPS</li> </ul>			
23	ELECTRIC AL	OCASSIONALLY	<ul style="list-style-type: none"> <li>•SOFTWARE UPDATION</li> </ul>			
BATTERY CHARGER AND RECTIFIER(MAKE- WAVES ELECTRONICS)						
24	ELECTRIC AL	3 MONTHLY	<ul style="list-style-type: none"> <li>• CARRY OUT VOLTAGE CHECKS: IF UNSAT, UNDERTAKE OVERHAUL AND REPAIR</li> </ul>	2	2	6
		YLY	<ul style="list-style-type: none"> <li>• REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	2	2	6
VHF COMMUNICATION SETS						
25	ELECTRIC AL	MONTHLY/ OCASSIONALLY	<ul style="list-style-type: none"> <li>•SERVICEABILITY CHECKS AND CALIBRATION OF THE EQUIPMENT</li> </ul>	1	4	12
			<ul style="list-style-type: none"> <li>•CARRY OUT CHECKS, REPAIR/REPLACE COMPONENTS WHEN DEFECTIVE</li> </ul>			
PA SYSTEM						
26	ELECTRIC AL	MONTHLY/ OCASSIONALLY	<ul style="list-style-type: none"> <li>•CARRY OUT ALL OPERATIONAL CHECKS OF THE EQUIPMENT</li> </ul>			
			<ul style="list-style-type: none"> <li>•CHECK MECHANICAL DAMAGE AND SPEAKERS AND</li> </ul>	1	1	3

			REPLACE IF FOUND SUBOPTIMAL •REPAIR /REPLACE WHEN DEFECTIVE, OBSOLETE OR BER			
<b>SOUND POWER TELEPHONE</b>						
27	ELECTRICAL	MONTHLY/OCCASSIONALLY	•CARRY OUT TWO WAY COMMUNICATION CHECKS •REPAIR /REPLACE WHEN DEFECTIVE, OBSOLETE OR BER			
<b>ANCHOR &amp; ANCHOR WINDLASS MOTOR WITH GEAR MECHANISM</b>						
28	ELECTRICAL	MONTHLY/OCCASSIONALLY	•RUST REMOVAL AND EXTERNAL SURFACES PAINTING GREASING OF MOVEABLE PARTS •CARRY OUT CHECKS, REPAIR/REPLACE COMPONENTS WHEN DEFECTIVE			
<b>MAGNETIC COMPASS</b>						
29	ELECTRICAL	ANNUAL	• CARRY OUT OVERHAULING OF MAGNETIC COMPASS AND RENEW SUPPORTING LIQUID IF FEASIBLE ELSE REPLACE • CARRY OUT SWING CHECK AND CALIBRATE THE COMPASS • REPAIR/REPLACE WHEN DEFECTIVE, ABSOLETE OR BER	1	1	3
<b>EARTHING STRIPS</b>						
30	ELECTRICAL	SIX MONTHLY	• UNDERTAKE SURVEY OF EARTHING STRIPS IN ENGINE ROOM AND OTHER COMPARTMENTS, RENEW WHERE NECESSARY	1	2	6
<b>SEARCH LIGHT ,FOCUS LIGHT FLOOD AND FOG LIGHT</b>						
31		MONTHLY	•INSPECT WATERTIGHT INTACTNESS			
		ANNUAL	• INSPECT THE SET OF ANY MECHANICAL DAMAGE/DEFECT: CARRY OUT	2	2	6

				REPAIR/REPLACEMENT IF REQUIRED			
<b>GENERAL LIGHTING CIRCUITS CABLING CABLE SECURING/CABLE TRAYS ETC</b>							
32	ELECTRICAL	6 MONTHLY	<ul style="list-style-type: none"> <li>• CABLING/CABLE SECURING/CABLE TRAY AND PROPER CONCEALING AND REPLACE WHEN REQUIRED</li> </ul>	1	2	6	
<b>EMERGENCY LIGHTING/GENERAL LIGHT</b>							
33	ELECTRICAL	3 MONTHLY	<ul style="list-style-type: none"> <li>• TIGHTEN ALL WATER PROOF AND SHOCK PROOF COVERS</li> <li>• MEASURE THE INSULATION RESISTANCE FOR GENERAL LIGHTING NETWORK</li> <li>• REPAIR/REPLACE WHEN DEFECTIVE, OBSOLETE OR BER</li> </ul>	10	4	12	
<b>FIRE DETECTION ALARM SYSTEM(MAKE -RAVEL MODEL-RE120GR/RE102R</b>							
34	ELECTRICAL	3 MONTHLY	<ul style="list-style-type: none"> <li>•SYSTEM CHECKS</li> <li>•CHECK STANDBY BATTERIES AND CHARGER VOLTAGE</li> <li>•CHECK OPERATION OF AUDIBLE ALARM</li> <li>•SIGN THE CERTIFICATE OF TESTING</li> </ul>	1	4	12	
		ANNUAL	<ul style="list-style-type: none"> <li>•QUARTERLY CHECKS BY RESPONSIBLE PERSON</li> <li>•EACH DEVICE ON THE SYSTEM IS TO BE TESTED</li> <li>•VISUAL INSPECTION OF EACH COMPONENTS AND CABLES</li> </ul>	1	1	3	
35		TWO YEARLY	<ul style="list-style-type: none"> <li>•CARRY OUT ANNUAL ROUTINE</li> <li>•CARRY OUT AGENT GAS BOTTLE PRESSURE TESTING AND GAS REPLACEMENT</li> </ul>				
<b>DIESEL ALTERNATOR (MAKE-SIGMA POWER CONTROL, MODEL-UCM224F1)</b>							
36	ELECTRICAL	MONTHLY	<ul style="list-style-type: none"> <li>• CHECK ALTERNATOR WINDING RESISTANCE:</li> </ul>	1	4	12	

		OCASSIONALLY	<ul style="list-style-type: none"> <li>• CHECK POWER SUPPLY CABLES AND REPLACE IT DETERIORATED</li> <li>• REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>			
NAVIGATION LIGHTS AND CONTROL PANEL						
37		OCASSIONALLY	<ul style="list-style-type: none"> <li>•SERVICEABILITY CHECKS,REPAIR/REPLACE COMPONETS WHEN DEFECTIVE</li> </ul>	1	1	3
CCTV						
38		OCASSIONALLY	<ul style="list-style-type: none"> <li>•SERVICEABILITY CHECKS,REPAIR/REPLACE COMPONETS WHEN DEFECTIVE</li> </ul>			
MOTORS (ALL AC/DC MOTORS)						
39	ELECTRIC AL	3 MONTHLY	<ul style="list-style-type: none"> <li>• CHECK AND DRAIN IF ANY WATER IS FOUND IN THE INNER CAVITY OF THE ELECTRIC MOTOR: IN ADDITION OT ABOVE THIS CHECK SHOULD BE CARRIED OUT AT EVERY OPERATION OF THE PUMP AND MOTOR</li> <li>• CHECK THE TIGHTNESS OF FASTENERS, SEALING WASHERS AND GASKETS FOR THEIR STATE</li> <li>• CHECK THE INSULATION OF THE MOTOR USING 500V MEGGER: IT SHOULD NOT LESS THAN 2M Ohms</li> <li>• CARRY OUT SPM CHECKS: CHECK THE BALL BEARING OF TH EMOTOR: LUBRICATE IF NECESSARY</li> <li>• RECORD STARTING AND RUNNING CURRENT ON FULL LOAD</li> <li>• REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	4	4	12
		ANNUAL	<ul style="list-style-type: none"> <li>• OVERHAUL THE MOTOR &amp; STARTERS: RENEW BEARINGS SUBJECT TO Q:C CHECKS</li> </ul>	4	4	12
AIS SART						

40	ELECTRIC AL	ANNUAL/ OCASSIONALLY	<ul style="list-style-type: none"> <li>REPAIR/REPLACE WHEN DEFECTIVE</li> <li>SERVICEABILITY CHECKS, OBTAIN SERVICEABILITY CERTIFICATE</li> </ul>	1	1	3
<b>EPIRB</b>						
41	ELECTRIC AL	ANNUAL/ OCASSIONALLY	<ul style="list-style-type: none"> <li>REPAIR/REPLACE WHEN DEFECTIVE</li> <li>SERVICEABILITY CHECKS, OBTAIN SERVICEABILITY CERTIFICATE</li> </ul>			
<b>GYRO COMPASS &amp; GPS (MAKE-KODEN MODEL-KGC 300 &amp; KRD 10)</b>						
42	ELECTRIC AL	MONTHLY	<ul style="list-style-type: none"> <li>CHECK IF ANY LOOSE CONNECTION ON THE PROCESSOR UNIT FOR GPS ANTENNA</li> </ul>	1	4	12
<b>CALL UP BELL</b>						
43	ELECTRIC AL	3 MONTHLY	<ul style="list-style-type: none"> <li>CARRY OUT TWO WAY COMMUNICATION CHECKS</li> <li>REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	1	1	3
<b>OVER HEAD LIGHTING</b>						
44	ELECTRIC AL	3 MONTHLY	<ul style="list-style-type: none"> <li>CARRY OUT VISUAL INSPECTION OF ALL FITTINGS AND REPLACE WHEN DEFECTIVE</li> <li>REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	6	4	12
<b>MULTY COUNTY SOCKETS</b>						
45	ELECTRIC AL	OCASSIONALLY	<ul style="list-style-type: none"> <li>CHECK FOR MECHANICAL DAMAGE AND REPLACE WHEN REQUIRED</li> <li>REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	1	1	3
<b>ANEMO METER</b>						
46	ELECTRIC AL	3 Monthly	<ul style="list-style-type: none"> <li>SERVICEABILITY CHECKS AND CALIBRATON OF THE EQUIPMENT</li> <li>CHECK FOR MECHANICAL DAMAGE AND REPLACE WHEN REQUIRED</li> <li>REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	1	1	3

BILGE ALARM PANEL AND SYSTEM					
47	ELECTRIC AL	3 Monthly	<ul style="list-style-type: none"> <li>• CLEAN THE COMPONENTS WITH ALCOHOL</li> <li>• CLEAN THE POWER SUPPLY UNITS AND TIGHTEN TERMINAL CONNECTION</li> <li>• REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	4	4 12
INTERCOM SYSTEM & TELEPHONE HANDSETS					
48	ELECTRIC AL	3 Monthly	<ul style="list-style-type: none"> <li>• CARRY OUT VISUAL INSPECTION FOR ANY DUST, DIRT AND MOISTURE: CLEAN WITH DRY CLOTH</li> <li>• CARRY OUT TWO WAY CHECKS</li> <li>• REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	1	4 12
ELECTRIC TRUMPET 24VDC					
49	ELECTRIC AL	OCASSIONALLY	• REPAIR OR REPLACE IF DEFECTIVE	1	1 3
HULL					
SE R:	EQUIPMENT/ EXPECTED ROUTINE DUE		DESCRIPTION		
INCLINOMETER					
50	HULL	ANNUAL	<ul style="list-style-type: none"> <li>• SERVICEABILITY CHECKS AND CALIBRATON OF THE EQUIPMENT</li> </ul>	12	1 3
		OCASSIONALLY	<ul style="list-style-type: none"> <li>• CHECK FOR MECHANICAL DAMAGE AND REPLACE WHEN REQUIRED</li> <li>• REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>		
BAROMETER					
51	HULL	YEARLY/OCASSIONALLY	<ul style="list-style-type: none"> <li>• SERVICEABILITY CHECKS AND CALIBRATON OF THE EQUIPMENT</li> <li>• CHECK FOR MECHANICAL DAMAGE AND REPLACE WHEN REQUIRED</li> <li>• REPAIR/REPLACE WHEN DEFECTIVE, ABSOLUTE OR BER</li> </ul>	1	1 3
STP(MAKE-BIODIGESTER)					

52	HULL	OCASSIONALLY	•REPAIR/REPLACE COMPONENTS WHEN DEFECTIVE	3	4	12
	HULL	ANNUAL	•CHEMICAL CLEANING OF TANKS			
<b>HULL ,DECKS AND SUPERSTRUCTURE</b>						
53	HULL	SIX MONTHLY/ OCASSIONALLY	•REPAIR OF GRP CRACK •PAINTING AND POLISHING OF UPPER DECK ,SHIPSIDE AND SUPERSTRUCTURE •COMPARTMENTS PAINTING •SOUND PROOFING OF ENGINE ROOM BULKHEADS •ENGINE ROOM BILGE CLEANING			
	HULL	HULL (YLY)	•UNDERWATER HULL CLEANING •UNDERWATER HULL SURVEY AND REPAIR •UNDERWATER HULL AND BOOT TOP AREA PAINTING WITH APPROVED PAINT SCHEME •ARTISTIC PAINTING ON HULL SUPERSTRUCUTRE	1	1	3
				1	1	3
	HULL	DOORS / HATCH & FENDER ( YLY )	• INSPECTION OF DOORS AND HATCHES FOR STRUCTURAL DEFECTS, DEFECTS ON SECURING ARRANGEMENTS AND RUBBER BEADINGS • OPERATE ALL EXPOSED AND INTERNAL WATERTIGHT HATCHES AND MANHOLES • CHECK WATERTIGHT INTEGRITY OF ALL HATCHES ON WEATHER DECK • REPLACEMENT OF RUBBER 'D' FENDERS IF FOUND DEFECTIVE			

	HULL	HULL FITTINGS (YLY )	<ul style="list-style-type: none"> <li>• FOLLOWING MISCELLANEOUS ITEMS/FITTINGS TO BE INSPCETED FOR STRUCTURAL DEFECTS VIZ DENTS, CRACKS, DEFORMATIONS ETC AND THE SAME BE REPAIRED/REPLACE D IF FOUND DEFECTIVE</li> <li>(A) CEREMONIAL DISC STAND</li> <li>(B) HMG STAND</li> <li>(C) LIFE RAFT SECURING BRACKET</li> <li>(D) FORWARD BOW PLATE</li> <li>(E) MAST</li> <li>(F) GUARD RAIL</li> <li>(G) HAND RAIL</li> <li>(H) HINGES AND TOWER BOLTS</li> <li>(I) FAIRLEADS AND BOLLARD</li> </ul>			
<b>WC FLUSHING SYSTEM</b>						
54	HULL	OCASSIONALLY	<ul style="list-style-type: none"> <li>• REPAIR OR REPLACE IF DEFECTIVE VACCUM FLUSHING PUMP</li> <li>• REPAIR OR REPLACE DEFECTIVE PIPES AND UNION</li> </ul>	1	1	3
				1	1	3
<b>OUTFITTING WORK</b>						
55	HULL	ANNUAL/ OCASSIONALLY	• SUNMICA REPAIR	1	1	3
			• FLOORING , TABLE - WOODEN WORKS	1	1	3
			• MINOR REPAIR , POLISHING , FITTING REPLACE	1	1	3
			• REPAIR OR REPLACEMENT OF RETRACTABLE AWNING	1	1	3
			• MANUFACTURING OF LOOSE COVERS FOR ALL UPPER DECK FITTINGS	1	1	3
			• MANUFACTURING OF FLY DECK AWNING	1	1	3
<b>MISCELLENEOUS</b>						
<b>LIFRAFTS 20 MAN QTY-02</b>						
56		ANNUAL	• ANNUAL SERVICEABILITY CHECKS	1	1	3

			•HRG CHECKS AND REPLACEMENT	2	2	2
<b>EMERGENCY BREATHING APPARATUS</b>						
57		ANNUAL	•ANNUAL SERVICEABILITY CHECKS	10	1	3
<b>FIRE EXTINGUISHERS</b>						
58		ANNUAL	•ANNUAL SERVICEABILITY CHECKS	10	1	3
<b>UTILITY EQUIPMENTS REPAIR OR REPLACEMENT</b>						
59		OCASSIONALLY	FRIDGES	1	1	3
			MICROWAVE OVEN	1	1	3
			DISHWASHER	1	1	3
			FANS	1	1	3
			TV	1	1	3
			MUSIC SYSTEM	1	1	3
			VACCUM CLEANER	1	1	3
			GEYSERS	1	1	3
WATCHES	1	1	3			

