

Tele:- 079-23243374

SPEED POST/E-Mail

Reply should be addressed
to The Commander

Headquarters
Coast Guard Region (NW)
Udyog Bhavan
Post Box No. 09
Sector-11,
Gandhinagar – 382 010

Quoting : 3469/408/1

11
May 18

M/S SADHAV OFFSHORE ENGG COMPANY, MUMBAI
M/S HOMA ENGINEERING WORKS, MUMBAI
M/S KRASNY DEFENCE TECHNOLOGIES, MUMBAI
M/S SHOFT SHIPYARD PVT LTD, BHARUCH
M/S YEOMAN MARINE SERVICES PVT LTD, MUMBAI
M/S L&T SHIPBUILDING LTD., MUMBAI
M/S GOA SHIPYARD, GOA
M/S RELIANCE DEFENCE AND ENGINEERING LIMITED, PIPAVAV
M/S CAMPBELL ENGINEERING, PORT BLAIR
M/S ISLAND SHIP REPAIRERS, PORT BLAIR
M/S VISHWAKARMA MECHANICAL WORKS, PORBANDAR
M/S LAVGAN DOCKYARD PVT. LTD, JAIGAD,RATNAGIRI
M/S HIGH SEAS SHIPPING ASSOCIATES, VISAKHAPATNAM
M/S MARINE 'N' CARE ASSOCIATES, VISHAKHAPATNAM
M/S SAGAR SHIP REPAIRERS & MARINE SERVICES, PORT BLAIR
M/S MARINE ENGINEERING & TRADE SERVICES, PORT BLAIR
M/S SEMBMARINE, KAKINADA
M/S DWEEP ENGINEERING WORKS, PORT BLAIR

**PRE QUALIFICATION FOR UNDER WATER AND FOUR YEARLY WATER JET
ROUTINES OF INTERCEPTOR BOAT ICGS C-408 (EX-M/S L&T)
INVITATION OF EXPRESSION OF INTEREST AND COMMENTS/ QUERIES**

Sir,

1. It is intimated that e-mail containing following defect list serials (Hull, Engineering and Electrical) in respect of under water and four yearly water jet routines of Interceptor Boat ICGS C-408 (Ex-M/s L&T) based at Jakhau for 35 days duration alongwith serial wise CGRHQ (NW) remarks has been forwarded todate 11 May 18:-

ICGS C-408 based at Jakhau

- | | | | |
|-----|-------|---|--------------------|
| (a) | Hull | : | HA-1001 to HB-1078 |
| (b) | Engg | : | EA-3001 to EC-3100 |
| (c) | Elect | : | LA-5001 to LB-5079 |

Contd . . .2/-

mg

2. Item wise Technical comments/ queries are invited for the defects remarked "DO" by CGRHQ (NW) on the defect list enclosed. **Please note that only technical comments/ queries need to be forwarded and no "Budgetary Quote" is to be forwarded. Forwarding of budgetary offer will disqualify the concerned refitting yard from the tendering process.**

3. **The refit is to be undertaken in Gujarat coast of India only.** The refit is tentatively scheduled to commence from the month of **Jul 2018** for period of **35 days**. The refit of the ship is to start within 30 days of signing the Refit Contract. However, in case the ship is not available during this period of 30 days, the refit of the ship would deemed to have commenced with effect from the date the ship is subsequently made available for refit by Indian Coast Guard.

4. The conduct of refit including other general conditions, payment terms, etc. will be governed in accordance with provisions of Defence Procurement Manual in vogue.

5. For details of defects on machinery, systems and ship's Hull, you are requested to contact following to ascertain availability of ship in harbour and clearance to visit the ship:-

Ship	Based at	Work package	Contact person/ no.
C-408	Jakhau	Underwater and four yearly water jet routine	STO/ ICGS Jakhau Contact no - 02831-286432/ 294521

6. It is intimated that a Request for Information Conference (RFIC) will be held at **CGRHQ(NW), Gandhinagar/ CGDHQ-1, Porbandar/ Onboard Ship at Jakhau** to discuss/ clarify the scope of work and to bring all the participating yards at par. It may be noted that the date and venue for RFIC will be intimated by **CGRHQ(NW)** at a later date.

7. You are advised to depute your reps to the ship for meeting The Commanding Officer/ respective departmental in-charges in order to assess the defect wise work package physically prior submitting technical comments/queries.

8. It is also desired that suitable reps may be deputed for attending the RFIC on receiving intimation from **CGRHQ (NW)**. Alternatively, a communication may be sent to **CGRHQ (NW)** that you would accept the work package as finalized during the RFIC.

9. **In the event that firm/ refitting firms does not have its own infrastructure including workshop facility at the place of refit, it should have a Memorandum of Understanding (MoU) with a local firm which owns at least a workshop facility befitting the refit of a ship. The refitting firm / refitting firms should be a licensee or have a MoU with a local firm who is a licensee of Port/ PSU/private refitting firm in whose dry dock the ship is going to be docked. The proof for both the facilities (workshop and dry dock) is to be attached with the technical bid so as to ascertain the technical qualification of the yard.**

Contd . . .3/-

10. **It may be noted that RFP will be issued to all those yards who have not conveyed their unwillingness to undertake the refit in accordance with provisions of DPM, irrespective of whether they attend RFIC or not.** As such, if you do not wish to undertake the refit you should communicate it in writing before the RFIC takes place.

11. It may be noted that CGHQ is contemplating AIAMC contract for certain equipment/systems fitted onboard ship. Although, defects on these equipment have been added in defect list but incase the AIAMC contract is concluded prior commencement of contract, Indian Coast Guard will have right to delete the same from the refit package.

12. It is requested that your **technical comments/ queries** for the defect list serials remarked "DO" by CGRHQ (NW) as per the enclosure be forwarded to reach **Headquarters Coast Guard Region (NW), Gandhinagar with one copy each to CGDHQ-1, Porbandar, ICGS Jakhau and ICGSC-408** at the addresses given below by 04 JUN 2018:-

- (a) The Commander
[for CSO (Tech)]
Coast Guard Region (NW)
Post Box No. 09, Gandhinagar-382010
Email- tech-nw@indiancoastguard.nic.in
- (b) The Commander
[for (DTO)]
Coast Guard District Headquarters No.1
(Gujarat) Post Box No 25
Porbandar-360575
Email- dhq1@indiancoastguard.nic.in
- (c) The Commanding Officer
[for STO]
ICGS Jakhau
Naliya, Kutch
Gujarat - 310655
E-mail - cgs-jkh@indiancoastguard.gov.in
- (d) The Commanding Officer
ICGS C-408
C/o ICGS Jakhau
Naliya, Kutch
Gujarat - 310655
E-mail - c408@indiancoastguard.gov.in



Contd . . .4/-

13. It is requested that receipt of this letter be acknowledged.



(KG Dua)
Commandant
Regional Technical Officer (Refit)
for Commander
Coast Guard Region (NW)

Enclosure: Main Defect list of ICGS C-408 (Hull, Engg and Electrical) by e-mail.

Copy to :

The Commander
[for (DTO)]
Coast Guard District Headquarters No.1 (Gujarat)
Porbandar

The Commanding Officer
ICGS Jakhau

The Commanding Officer
ICGS C-408

**UNDER WATER ROUTINES AND FOUR YEARLY WATER JET ROUTINES
L&T CLASS INTERCEPTOR BOAT ICGS C-408**

Hull

SL. NO.	DESCRIPTION OF DEFECT	RHQ (NW) REMARKS
UNDERWATER HULL AND COMPARTMENT. MAKE: M/S L&T		
HA 1001	Carry out docking and undocking of the ship as per docking plan.	Do for SL HA-1001 to HA-1004. Ship staff to arrange/provide approved docking plan to yard.
HA 1002	Under water including boot top area to be washed with high pressure fresh water jet soon after docking.	
HA 1003	Clean sea growth by soft scrapping.	
HA 1004	Clean the EM log and Echo sounder pick up head.	
HA 1005	Damaged paint film/ area to be scrapped and paint to be restored as per paint scheme. Hull Underwater + Boot Top + Jet Tunnel – Area 248Sqmts: Paint to be removed using paint remover or as suitable without damage to metallic surface. Apply under water paint as per paint scheme after completion of underwater repairs. Paint scheme of M/s Jotun.	
HA 1006	SHIP SIDE SUPER STRUCTURE, EXPOSED DECK & MAST. MAKE: M/S L&T YARD Carry out survey in association of classification society for hull structural including ship side, superstructure, mast, decks and associated structural members for deteriorated and damage.	
HA 1007	One final coat of paint to be applied as per CGBR 382. Surface preparation and painting to be undertaken with the supervision of paint manufacturer. Ship side, Super structure including Mast- Area 223 Sq mtrs (Paint Yard supply). Paint scheme of M/s Jotun.	Do yard to cater for application of one final coat only. Paint CG supply.
HA 1008	Survey of bollards, towing post and lifting hooks to be undertaken with class for soundness of structure and load test certificate to be issued.	Do. Carry out NDT survey by class surveyor and submit certificate for structural soundness. (Refer CGHQ policy letter FM/1100/ Policy dated 02 Jun 11).
HA 1009	Overhaul and pressure test all sea chest valves(03 Nos) including bevel gear mechanism. Size: 250 NB, Butterfly, Qty 02 And 50 NB, SDNR, 01No.	Do. Material yard supply as per RFIC.

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HA 1010	Overhaul and pressure test all overboard valves(Mat : SS) to be carried out (pressure up to 5.0 kg/cm ²) Details are as follows:	Do. Material yard supply as per RFC.															
	<table border="1"> <thead> <tr> <th>Sl</th> <th>Details of valves</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>(a)</td> <td>80 NB butterfly valve</td> <td>02 Nos</td> </tr> <tr> <td>(b)</td> <td>40 NB butterfly valve</td> <td>06 Nos</td> </tr> <tr> <td>(c)</td> <td>50 NB butterfly valve</td> <td>01 No</td> </tr> <tr> <td>(d)</td> <td>32 NB butterfly valve</td> <td>02 Nos</td> </tr> </tbody> </table>	Sl	Details of valves	Qty	(a)	80 NB butterfly valve	02 Nos	(b)	40 NB butterfly valve	06 Nos	(c)	50 NB butterfly valve	01 No	(d)	32 NB butterfly valve	02 Nos	
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(c)	50 NB butterfly valve	01 No															
(d)	32 NB butterfly valve	02 Nos															
HA 1011	Overhaul 25% system valves.	QSD															
HA 1012	Renew all sacrificial anodes (including water jet and sea chest, Qty – 33 Nos) consumed more than 50%. All anodes to be cleaned with wire brush.	Do. Anodes CG supply.															
HA 1013	Carry out UTG (250 points) of critical/ suspected area as per class surveyor/ overseeing team's recommendations as reflected in shell expansion drawing.	Deleted.															
HA 1014	Remove underwater gratings, clean and scrap to bare metal restore paint as per U/W paint scheme	Do in conjunction with HA-1005.															
HA-1015	Paint draught marks	Do. Paint yard supply.															
EQUIPMENT : HULL AND APPENDAGES MAKE: L&T SHIPYARD.																	
HA-1016	Carry out survey of internal and external shell plating, all welded joints and other structures by classfied surveyor's and report is to be rendered with surveyor's recommendations.	Do in conjunction with HA-1006.															
HA-1017	Carry out cleaning of inside and 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 in conjunction with HA-1005.															
HA-1018	Ship side blue bands to be painted.	Do as per CGBR 382. Paint CG supply.															
HA-1019	Entire u/w area to be power tooled up to bare metal standard and apply complete paint scheme as per existing scheme.	Deleted. Covered in HA-1005.															
EQUIPMENT : SCUPPER AND DRAINS, MAKE: L&T SHIP YARD.																	
HA-1020	Dismantle 50% drain pipe line. Clean repair and pressure test.	Do 25% only.															
HA-1021	Inspect and refit all strainers and its fasteners.	Deleted.															
EQUIPMENTS : TANKS (QTY-01,GREY WATER), MAKE: L&T SHIPYARD																	
HA-1022	GREY WATER TANK – Area 25 Sq. mtrs: Remove grey water from the tank. Clean with chemically / liquid detergent and scraped the damage paints, carry out 100 % survey by surveyor. Apply touch up paint as per Jotun paint scheme. Ensure manhole covers are free of erosion and intact at seating. Pressures test the tank with class surveyor, if plate renewal/repair carried out. Manhole cover gaskets and securing bolts to be inspected and the defective ones to be renewed.	Do. Undertake survey in conjunction with HA-1016. Carryout touch up paint scheme. Paint CG supply. Material yard supply.															
HA 1023	Remove complete paint by power tooling and restore approved paint scheme. Ensure all strainers, limber holes and valves are clear and thoroughly dry before applying paint.	Deleted. Covered in HA-1022															

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HA 1024	BILGE HOLDING TANK – AREA 10 sqmtrs: Remove the black water from the STP tanks, cleaned with liquid detergents and scrapped the damaged paints, carry out survey by surveyor. Apply paint as per Jotun paint scheme. Manhole cover gaskets and securing bolts to be inspected and the defective ones to be renewed.	Do. Undertake survey in conjunction with HA-1016. Carryout touch up paint scheme. Paint CG supply. Material yard supply.																				
HA 1025	DIRTY OIL TANK, Qty-01 No. , Area-4 Sq. mtrs: Remove the dirty oil from the tank, cleaned, surveyed. Cleaned with chemically/ liquid detergents and scrapped the damaged paints, carry out survey by surveyor. Apply paint as per Jotun paint scheme. Manhole cover gaskets and securing bolts to be inspected and the defective ones to be renewed.	Do. Undertake survey in conjunction with HA-1016. Carryout touch up paint scheme. Paint CG supply. Material yard supply.																				
HA 1026	FUEL OIL TANK, Qty-06 Nos, Volume-20.02 Cubic mtrs(Total) Tanks to be emptied/cleaned/surveyed. SS to empty and dockyard to clean & carry out survey. Prior Man entry tanks to be ventilated and gas freed. Manhole cover gaskets and securing bolts to be inspected and the defective ones to be renewed	Do. Undertake survey in conjunction with HA-1016. Yard to obtain gas free certificate. Material Yard Supply.																				
HA1027	LUB OIL TANK, Qty-01 No, Volume- 0.54 Cubic Mtrs Tank to be emptied/cleaned/surveyed. SS to empty and dockyard to clean & carry out survey. Prior Man entry tanks to be ventilated and gas freed. Manhole cover gaskets and securing bolts to be inspected and the defective ones to be renewed.	Do in conjunction with HA-1016. Yard to obtain gas free certificate. Material Yard Supply.																				
HA 1028	FRESH WATER TANK, Qty -01 No, Area – 05 Sqmtrs. Remove fresh water from tanks, clean with detergent and carry out 100% survey of the tank. Ensure manhole covers are free of erosion and intact at seating. Pressure tests the tank with class surveyor, if plate renewal/repair carried out. Repaint the tanks as per Jotun paint scheme.	Do. Undertake survey in conjunction with HA-1016. Carryout touch up paint scheme. Paint CG supply. Material yard supply.																				
HA 1029	100% internal area including bilges to be cleaned visually inspects and report is to be rendered with surveyor's recommendations.	Do survey by class surveyor. Defect if any, to be undertaken in AWRP.																				
HA 1030	Inspection of paint on duct and water jet unit to be carried out. Apply paint as per approved paint scheme. Approx Area 10 Sqmtrs.	Do in conjunction with HA-1005.																				
EQUIPMENT: WEATHER DECK MAKE-M/S L&T SHIPYARD																						
HA 1031	Weather deck Painting. Paint is to be removed using paint remover or as suitable without any damage to metallic surface. Painting of weather deck area as per paint scheme after completion of repairs. The details of total area are as follows: Weather Deck – Area 155 Sq. mtrs	Delete covered in HA-1007.																				
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1 st	Full	Penguard HB Grey	100	Airless Spray																		
2 nd	Full	Penguard HB Red	100	-do-																		
3 rd	Full	Hardtop A/S Green	50	-do-																		

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WATER TIGHT DOORS AND HATCHES, MAKE-M/S L&T YARD (QTY-DOORS - 07 Nos & HATCHES - 05 Nos.)

HA 1032	Check operation of all doors & hatches including condition of gas struts, closing wheel & lever mechanism.	Do. Material yard supply.
HA 1033	Inspect all rubber beading. Renew deteriorated rubber beadings and carry out chalk test.	Do for HA-1033 to HA-1034. Rubber to be used as per CGHQ policy letter DN/0305/CGWO/Gen dated 20 Nov 12 and DN/0305/CGWO/Gen dated 29 Jan 14. Material yard supply.
HA1034	Carry out hose test where required. Renew deteriorated rubber beading with ICG approved material.	

BOAT DAVIT, MAKE – NED DECK CRANE (QTY – 01) / MAKE-HEMANT ENGINEERING, THANE

HA 1035	Grease wire rope winch	Do for HA 1035 to HA 1038. Material yard supply.
HA 1036	Check condition of Electric cabinet.	
HA 1037	Check condition of wire remote control	
HA 1038	Check examine all brake lining for wear & tear.	
HA 1039	Change gear/winch oil (oil CG supply)	Do. Oil CG supply.
HA 1040	Overhaul hoisting /lowering winch, slewing mechanism, brake mechanism and associated fittings. Prove davit for proper functioning.	Do for HA 1040 & HA 1041. SS to submit last load test report.(Periodicity not to exceed 27 month).
HA 1041	Survey and load test with all associated fittings of davit to be done as per standard procedure.	

ANCHOR AND CHAIN CABLE MAKE- ASIAN STAR ANCHOR CHAIN(QTY-01)

HA 1042	Remove all shackles and examine for defects.	Do. SS to indicate no. of shackles along with dia during RFLC.
HA 1043	Clean, scrap and chip the anchor chain cables. Survey anchor & chain cables by class Surveyor. Readings of thickness gauging and calibration.	Do. Yard to provide thickness gauging and calibration report with class surveyor remarks .
HA 1044	Clean, grease and lubricate Anchor, Chain accessories and paint as per paint scheme.	Do. Material yard supply.

ANCHOR WINDLASS ,MAKE-MUIR WINDLASS(QTY-01)

HA 1045	Strip and inspect windlass break mechanism.	Do.
HA 1046	Examine brake linings , pin and bushes for wear & tear and renew if necessary	Do. Spares CG supply and Material yard supply.
HA 1047	Replace gear oil (Oil Yard Supply)	Do. Oil CG supply.
HA 1048	Cable holder, gypsy and drums to be dismantled. Examine for wear and deterioration.	Do.

CABLE LOCKER, MAKE-M/S L&T YARD,QTY-01)

HA 1049	Clean locker and remove all dirt and sludge. Examine the structure paying particular attention to that in vicinity of cable clench and locker bottom plating.	Do.
HA 1050	Examine and clean drain pipe from chain locker to fore peak bilge.	Do.

HA 1051	Check all lug less shackle.	Deleted. Covered under serial HA-1042
SCUPPER AND DRAINS, MAKE-M/S L& T YARD		
HA 1052	Dismantle 50% drain pipe lines. Clean, repair and pressure test. Test pressure- 1 bar.	Deleted. Covered in HA-1020 & HA-1021
HA 1053	Inspect and refit all drain strainers and its fasteners. Qty: 05 in nos (Mat: SS)	
GALLEY HOT PLATE AND EXHAUST TRUNKING , MAKE- KANTIKAL CHUNNILAL & CO.		
HA 1054	Overhaul galley fire damper	Do.
HA 1055	Clean the exhaust trunking with wire brushes and paint with black heat resistant paints. Project specific defect for renewal of damage filters/trunking	Do. Material/ Paint yard supply.
EQUIPMENT: OFFICERS & SAILORS BATHROOM, MAKE-M/S L&T YARD(QTY-04)		
HA 1056	Remove and chemically cleaning of pipe of Officer's and EP's bathroom to be carried out. length - 10 Mtrs, 125 NB, Material- SS & Length- 25 Mtrs, Dia- 40 NB, Material- SS	Do 50% only.
GENERAL COMPARTMENTS / VOID SPACE		
HA 1057	100% area to be visually surveyed in association with class. Carry out non destructive testing on suspected area. Specific defect to be projected to ship for remedial Measures. Note: No chipping or scraping is permitted on underwater area when vessel is water borne.	Delete. Covered in HA-1029
GUARDRAILS & STANCHIONS		
HA 1058	Remove all stanchions, inspect all stanchions shoes and base for any defect / crack deterioration. Necessary repairs to be carried out.	Discuss during RFIC
YARD SERVICES		
HA 1059	Suitable Berthing of ship to be provided during refit.	Do for HA-1059 to HA-1067 as per RFIC remarks.
HA 1060	Pilot to be arranged during berthing and unberthing.	
HA 1061	Fresh/ Drinking water to be to be provided during the period of refit. (Qty: 01 Ton & 100 Ltrs / day).	
HA 1062	Shore supply to be provided during the period of refit.	
HA 1063	Telephone, Fax facility and internet connectivity to be provided.	
HA 1064	Transport for Officer, Ship's coy and supervision authority to be provided.	
HA 1065	AC Accommodations for Commanding Officer (01), SO's (04) and Jr Sailors (09) to be provided	
HA 1066	Galley is to be provided alongwith store space for the period of inhabitability onboard.	
HA 1067	Storage space for spares and stores is to be provided.	
MISCELLANEOUS DEFECTS: HULL		
HA 1068	03 in nos Fire hose boxes bulged, deteriorated and deformed at various places. To be renewed. Mat -AL	Delete
HA 1069	04 in nos bathroom metallic side plates deteriorated. Plates to be renewed as per sample. (Mat:AL)	Delete

HB 1070	40 in nos butterfly nuts corroded/ deteriorated. To be renewed as per sample. Mat. SS	Delete. S&D.
HB 1071	Vinyl PVC sheet of mess deck area damage to be renewed as per sample. Area approx. : 50 Sq mtr	Delete.
HB 1072	Side plastic beading of mess deck area uprooted/disllocated. To be renewed as per sample.	Delete.
HB 1073	04 in no bathroom – floor Macro tec worn out at several places. To be renewed. Area – 10 Sqmtrs	Do. Material yard supply.
HB 1074	Galley floor Macro tec peeled off at several places. To be renewed. Area – 5.0 Sqmtrs	Do. Material yard supply.
HB 1075	Water ingress in AC compartment through forward bathroom and officer bathroom port side paneling. To be rectified and proved.	Do. Material yard supply.
HB 1076	Both DA blower trunking AL Cladding perished. To be renewed as per sample. Area 10 Sqmtr, Mat AL Cladding.	Delete.
HB 1077	04 in Nos. cupboards in galley having no locking arrangement. Locks to be fitted.	Delete. Undertake under DFPR
HB 1078	Engine room bulkhead lagging perished from various places to be renewed. Area approx. 25 sq mtrs. Mat- Glass wool and aluminum foil.	Do. Material yard supply.

mm

UNDER WATER ROUTINES AND FOUR YEARLY WATER JET ROUTINES
L&T CLASS INTERCEPTOR BOAT ICGS C-408

ENGINEERING

SL. NO.	DESCRIPTION OF DEFECT	RHQ (NW) REMARKS
JET & SHAFTING ROUTINES: (WATER JET, MAKE: M/s MJP, SWEDEN,(QTY-02), MODEL- 650 DD CSU)YEARLY AND FOUR YEARLY JET ROUTINES (TO BE UNDERTAKEN THROUGH PAC FIRM ONLY) PAC :M/s CORPORATE ALLIANCE NEW DELHI		
EA -3001	Inspect shaft seal	Delete.SS
EA -3002	Change Mechanical Seal of Hub Unit.	Do through PAC firm. Spares CG supply.
EA -3003	Inspect bushings and bolts of steering unit.	Do through PAC firm. Spares CG supply.
EA -3004	Inspect azimuth steering potentiometers.	Do through PAC firm. Spares CG supply.
EA -3005	Inspect all bronze bushings and bolts of steering unit. (To be changed when the tolerance exceeds 1.5mm)	Delete.SS
EA -3006	Inspect impeller and record clearance(0.7 +/- 0.5 mm) and coarse surface on impeller blades	Do through PAC firm. Spares CG supply.
EA -3007	Inspect painting on water jet unit. Follow paint scheme as per approved paint scheme (during annual docking)	Delete covered under HA-1030.
EA -3008	Inspect paint on hull and duct. Follow paint scheme as per approved paint scheme (during annual docking).	Delete covered under HA-1030.
EA -3009	Inspect Steering unit pin shaft weld lock.	Do through PAC firm. Spares CG supply.
EA -3010	Visual inspection of intermediate shaft for any crack/chips, missing parts.	Do through PAC firm. Spares CG supply.
EA -3011	Visual inspection of intermediate shaft sleeve near bulkhead seal area and Major overhaul of Bulkhead Seal	Do through PAC firm. Spares CG supply.
EA -3012	Check the tightening torque for all screws (intermediate shaft).	Do through PAC firm. Spares CG supply.
EA -3013	Change lube oil in lubricant system	Delete.SS
EA -3014	Change hydraulic oil of maneuvering unit.	Delete.SS
EA -3015	Change reversing cylinder seals.	Delete.SS
EA -3016	Inspect anodes on water jet unit and transom. Follow as per approved policy.	Delete covered under HA-1012.
EQUIPMENT : HUMPHREE, MAKE: M/S MJP SWEDEN (QTY-02) PAC M/S ELCOME INTEGRATED SYSTEMS PVT LTD, NAVI MUMBAI (PAC FIRM)		
EA -3017	Check connection of transom cable for corrosion or liquid contamination.	Do through PAC firm. Spares CG supply.
EA -3018	Inspect the sealing strip and replace the part if worn or broken	Do through PAC firm. Spares CG supply.
EA -3019	Extend the sealing ring to fully out position. Clean the blade and grease the interceptor blade.	Do through PAC firm. Spares CG supply.

[Signature]

AC PLANT, MAKE-KIRLOSKAR, TYPE- 12 TR HVAC (QTY-01) PAC KALP MARKETING A/BAD

EA-3020	Check operations of controls.	Delete covered under LA-5056.
EA-3021	Check magerring of compressor windings.	Delete covered under LA-5056.
EA-3022	Check and tighten power and control connections.	Delete covered under LA-5056.
EA-3023	Replace the fuses.	Delete:SS
EA-3024	Check for leaks in refrigeration line and rectify.	Do through PAC firm. Spares CG supply.
EA-3025	Check shock mounts rubber parts. Replace if required. Carry out pressure/vacuum test post repair and prove the system.	Do through PAC firm. Spares CG supply.
EA-3026	Inspect and chemical clean condenser tubes.	Do through PAC firm. Spares CG supply.
EA-3027	Change sheets and gaskets of condenser.	Do through PAC firm. Spares CG supply.
EA-3028	Check/Re adjust the operation of two way solenoid valve and expansion valve.	Do through PAC firm. Spares CG supply.
EA-3029	Replace compressor oil.	Do through PAC firm. Spares CG supply.
EA-3030	Replace liquid line strainer.	Do through PAC firm. Spares CG supply.
EA-3031	Clean air handling unit air passage. Check lower dampers, filters frame, coil casing and anchor bolts for corrosion/damages. Repair if required	Do through PAC firm. Spares CG supply.

AHU (AC), MAKE-ZECO INDIA LTD, TYPE- ZDS-20,NO. OF FITTED -01

EA-3032	Check duct connection hoses, damaged hoses to be replaced.	Do. Material yard supply.
EA-3033	Replace door locks.	Delete
EA-3034	Check whether the connections are intact and vibration dampers not harmed.	Do. Material yard supply.
EA-3035	Replace the coating and casing of fan.	Delete
EA-3036	Check fan and motor are in balance.	Do.
EA-3037	Carry out chemical cleaning of cooling coil and check for corrosion and leakage	Do. Material yard supply.
EA-3038	Damages of coatings (PUF lagging) to be done post repair, if required.	Do. Material yard supply. Total lagging area 75 sq. ft.

FM 200 FIRE FIGHTING SYSTEM, MAKE- M/s SOLAS MARINE, TYPE- FM 200, QTY- 01

EA-3039	Test manual actuators.	Do for serials EA-3039 to EA-3046 through authorised firm. Recharge of gas if any, against AWR/F. Material yard supply.
EA-3040	Test Remote pull cables.	
EA-3041	Test pneumatic detection system.	
EA-3042	Test time delay.	
EA-3043	Check HF C 227 cylinder weights and re-charge, (if weight loss is more than 10%)	
EA-3044	Blow out distribution piping.	Delete for EA-3047 to EA-3057.
EA-3045	Check CO ₂ cylinder weight.	
EA-3046	Test pressure switch.	

OILY WATER SEPARATOR, MAKE- VICTOR MARINE, TYPE-CS 500 LIT. , NO. OF FITTED – 01

EA-3047	Drain both separator stages & remove top covers and overhaul all valves. (Qty: 07 No, Size -20 mm)	Delete for EA-3047 to EA-3057.
EA-3048	Clean first stage coalescing filter with warm water.	
EA-3049	Clean the sludge sediment in the two stages using warm water.	
EA-3050	Overhaul the pump	

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EA-3051	Replace second stage filter cartridges																															
EA-3052	Check the inside coating and paint it with epoxy if there is corrosion																															
EA-3053	Check the anodes																															
EA-3054	Wash through the separator vessels using hot water and clean all valves.																															
EA-3055	Change all gasket and joints.																															
EA-3056	Reset pressure relief / water valves.																															
EA-3057	Renew second stage coalescer cartridge and plant proved for auto operation.																															
SUBMERSIBLE PUMP, MAKE-AZCUE, TYPE-G 50 VAOCT-E QTY -02																																
EA-3058	Overhaul the pump and renew spares as required.	Delete.																														
EA-3059	Paint pump casing internally and externally.	Delete.																														
FUEL OIL TRANSFER PUMP & FUEL SYSTEM , MAKE- TUSHACO, TYPE- TIG-GM100/50- 01 no.																																
EA-3060	Overhaul the pump and prove for optimum performance.	DO. Material yard supply.																														
EA-3061	01 in no. Fuel Priming Hand pump of both main engine to be overhauled and proved(Type: Diaphragm).	DO. Material yard supply.																														
EA-3062	10 in no. quick closing valve to be overhauled and pressure tested for 3.5 bar. (25 NB - 04 no, 40 NB : 08 Nos.) Mat: SS	Do 25% only. Material yard supply.																														
SEA WATER COOLING SYSTEM																																
EA-3063	Following valves of sea water system to be overhauled and pressure tested for 05 bar.	Do 25% of serials (c), (d), (e), (f), (h) and (j). Material yard supply. Delete for serials (a),(b) and (g).																														
	<table border="1"> <thead> <tr> <th>SL</th> <th>DESCRIPTION</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td>(a)</td> <td>Butterfly Valve 250 NB</td> <td>02</td> </tr> <tr> <td>(b)</td> <td>Butterfly Valve 250 NB</td> <td>02</td> </tr> <tr> <td>(c)</td> <td>Butterfly Valve 125 NB</td> <td>02</td> </tr> <tr> <td>(d)</td> <td>Ball Valve 15 NB</td> <td>02</td> </tr> <tr> <td>(e)</td> <td>Ball Valve 40 NB</td> <td>02</td> </tr> <tr> <td>(f)</td> <td>Ball Valve 50 NB</td> <td>01</td> </tr> <tr> <td>(g)</td> <td>Foot Valve with strainer &NRV 80 NB</td> <td>01</td> </tr> <tr> <td>(h)</td> <td>SDNR Valve 80 NB</td> <td>01</td> </tr> <tr> <td>(i)</td> <td>Butterfly Valve 40 NB</td> <td>06</td> </tr> </tbody> </table>	SL	DESCRIPTION	QTY	(a)	Butterfly Valve 250 NB	02	(b)	Butterfly Valve 250 NB	02	(c)	Butterfly Valve 125 NB	02	(d)	Ball Valve 15 NB	02	(e)	Ball Valve 40 NB	02	(f)	Ball Valve 50 NB	01	(g)	Foot Valve with strainer &NRV 80 NB	01	(h)	SDNR Valve 80 NB	01	(i)	Butterfly Valve 40 NB	06	
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(h)	SDNR Valve 80 NB	01																														
(i)	Butterfly Valve 40 NB	06																														
FIRE &BILGE SYSTEM																																
EA-3064	Overhaul and pressure test following bilge and firemain system valves .	Discuss during RFIC.																														
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	(h)	Foot Valve with strainer and NRV 32 NB	07	
	(j)	Foot Valve with strainer and NRV 50 NB	01	
	(h)	Ball Valve 15 NB	01	
EA-3065	System pipe lines of bilge to chemically cleaned, pressure tested and fitted with new gaskets. (length 20 Mtrs , Size 40 NB)			Do 25% only. Material yard supply.
LUB OIL / DIRTY OIL SYSTEM				
EA-3066	10 mtr system pipe lines to be chemically cleaned, pressure tested and fitted with new gaskets. (Size 25 NB)			Do 25% only. Material yard supply.
EA-3067	02 in nos semi rotary hand pump for M/E and DG to be overhauled. (Make Tushaco)			Delete.
ME EXHAUST SYSTEM, MAKE- DISCOM EXHAUST TECHNOLOGY, QTY -02				
EA-3068	Check water injection pipe and nozzles for wear, soot and salt built up.			Do. Material yard supply.
EA-3069	Inspect welds, Flanged joints and gasket for leakage.			Do. Material yard supply.
EA-3070	Tight all bolts and nuts.			Do. Material yard supply.
EA-3071	Check bellows for crack and sign of aging			Do. Material yard supply.
EA-3072	Re-lagging of exhaust trunk.			Do. Material yard supply. SS to provide lagging area during RFIG.
SEWAGE TREATMENT PLANT MAKE- EVAC, TYPE – SEA CLEAN II- N 25CE, M/S VACMAN SANITATION SOLUTIONS PVT LTD NAVI MUMBAI(PAC FIRM)				
EA-3073	Check shut off valve operation			Delete for defect serials EA-3073 to EA-3077 as covered under AIAMC.
EA-3074	Open sewage pump and clean housing			
EA-3075	Check flap of mini- check valve in every toilet			
EA-3076	Check possible wear and vacuum leakage			
EA-3077	Overhaul control panels and check all alarm/safety and system to be proved for satisfactory operation.			
MAGAZINE SPRINKLING PUMP, MAKE – AZCUE PUMPS, TYPE – CA-50-2				
EA-3078	Overhaul the pump and prove for optimum performance.			Do. Material yard supply.
DOMESTIC SEA WATER PUMP, MAKE- AZCUE PUMPS, CP-25-130				
EA-3079	Overhaul the pump and prove for optimum performance.			Do. Material yard supply.
DIVING AIR COMPRESSOR, MAKE – AEROTECHNICALCOLTRI, TYPE – MCH- 6				
EA-3080	Change intake filter.			Delete for defect serials EA-3080 to EA-3085. Undertake under DFFR as & when due.
EA-3081	Check and clean 1 st, 2nd& 3 rd stage valves.			
EA-3082	Change 4 th stage valve.			
EA-3083	Replace the belt.			
EA-3084	Check and clean the separator element.			
EA-3085	Check and clean pumping unit and do general overhauling.			
AC CONDENSOR PUMP, MAKE- KIRLOSKAR, TYPE- SP-1 HM, QTY-02 NOS				
EA-3086	Overhaul the pump and prove for optimum performance.			Do. Material yard supply.
FRESH WATER PUMP, MAKE- JOHNSON PUMPS, TYPE- KGEFN 16-3 QTY- 01				
EA-3087	Overhaul the pump and prove for optimum performance.			Do. Material yard supply.

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GREY WATER PUMP, MAKE- JOHNSON PUMPS, TYPE- KGEFN 11-4 QTY-- 01	
EA-3088	Overhaul the pump and prove for optimum performance. Do. Material yard supply.
FIRE & BILGE PUMP, MAKE- JOHNSON PUMPS, TYPE- KGEFN 11-4 QTY-- 01	
EA-3089	Overhaul the pump and prove for optimum performance. Do. Material yard supply.
OBM, MAKE- MERCURY MARINE, MODEL: 1041217FF, 2 STROKE& CAPACITY: 40 HP QTY -- 02	
EA-3090	Check corrosion and deformation of anode and trip hub. Replace if necessary. Delete undertake under DFP.
EA-3091	Repeat 100 Hrly routine. Delete. SS.
EA-3092	Clean and adjust carburetor and idling.
EA-3093	Adjust ignition timing
EA-3094	Check for salt deposits and battery cable connections
EA-3095	Grease nipples
EA-3096	Check for corrosion of outer equipment
DIESEL DRIVEN PUMP, MAKE-AZCUE, TYPE-CA-50-5, QTY-01	
EA-3097	Overhaul the pump and prove for optimum performance. Delete.
KFWA-2, MAKE- M/S MTU GERMANY	
EA-3098	Overhaul the pump Do. Material yard supply.
EA-3099	Check operation of rod electrode of fuel treatment system Do. Material yard supply.
DIESEL ALTERNATOR, MAKE-M/S CATERPILLAR ,USA, MODEL-C 4.4,QTY-02	
EC-3100	Emergency cooling line for 02 no. DAs to be fabricated from fire pump overboard pipe line. Delete. Work order issued by CGRHQ (NW). (a) pipe line length-5.1 mtrs,Dia-40 mm, Mat-SS (b) Ball valve -03 Nos,size-40 mm, Mat-SS (c) Flanges-08 Nos ,Mat-SS (d) Pressure reducer- 5 to 1 Bar ,Mat - Bronze (e) Pressure gauge- 0.3 Kg/cm ²

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UNDER WATER ROUTINES AND FOUR YEARLY WATER JET ROUTINES
L&T CLASS INTERCEPTOR BOAT ICGS C-408

ELECTRICAL

SL. NO.	DESCRIPTION OF DEFECT	RHQ(NW) REMARKS
ICCP , MAKE: M/S SARGAM METALS, CHENNAI,(QTY-01) (UNDER AIAMC)		
LA -5001	Check the condition of anodes, reference electrodes and shield sensors. Renew anodes and reference electrodes if consumed more than 50%.	Delete for serials LA-5001 to LA-5004 as covered under AIAMC.
LA- 5002	Carryout insulation checks w.r.t. hull	
LA -5003	Carry out functional test and prove the system	
LA -5004	Dielectric shield of ICCP system to be examined for wear and damaged layer. To be re-laid as per specification.	
ICAF,MAKE: M/s SARGAM METALS, CHENNAI, (QTY: 01) (UNDER AIAMC)		
LA-5005	Check the status of all fitted anodes.	Delete for serials LA-5005 to LA-5007 as covered under AIAMC.
LA-5006	Replace defective/ damaged anodes. Qty-03{02,DUEL 01 CU}	
LA-5007	Overhaul the digital processing unit and prove for operation.	
EM LOG, MAKE: JOHN LILIE&GILLI MODEL-WALKER 4020 MK 2, (QTY:01)(UNDER AIAMC)		
LA-5008	Carry out calibration of EM Log and compare the readings with GPS speed. Difference should be within permissible limits.	Delete covered under AIAMC.
ECHO SOUNDER, MAKE- KODEN EL CO .LTD, MODEL- CVS 128, QTY -01 (UNDER AIAMC)		
LA-5009	Inspect Transducer fitment along with surface ring to be cleaned properly and sea weeds to be removed.	Delete for serials LA-5009 to LA-5010 as covered under AIAMC.
LA-5010	Overhaul the equipment & control panel and performance to be checked on high speed.	
MAIN SWITCH BOARD, MAKE: M/S L&TEBG, INDIA		
LA-5011	Calibrate all the analog meters of MSB. Calibration certificate to be provided. (i) Ammeter-02 Nos. (0-250 A) (ii) Volt meter-02 Nos. (0-500 V) (iii) KW meter-02 Nos. (-15 TO 110 KW, 415V) (iv) Frequency meter-02 Nos. (0-55 HZ) (v) Synchroscope meter-01.No. (MODEL CSQ-3) *parallel operation should not to be disturbed.	Do. Yard to provide calibration certificate.
LA-5012	Overhaul all main circuit breakers and interconnecting breakers and Check for all safety and trip	Do.SS to provide quantity, type and ratings of breakers during RFIC.

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MAIN ENGINE, MUSKIN, MAKE- MTU 4000 (NO-02), PAC FIRM- M/s MTU INDIA, PUNE, M/s YEOMAN MARINE SERVICES PVT LTD, MUMBAI		
LA-5013	Calibrate all sensors and indicators for set alarms and shut down.	Do for serials LA-5013 to LA-5014 through PAC firm. Ship to provide type, range & quantity of sensors, safeties and interlocks during R.F.I.C. Spares CG supply.
LA-5014	Check functionality of all safeties and interlocks and to be proved.	
DIESEL ALTERNATOR, C 4.4 DITA MAKE : CATER PILLAR, (NO : 02) (415 V, 3PH, 50 HZ, 86 KW) PAC FIRM : GMMCO		
LA- 5015	Overhaul complete generator including AVR, starter motor and dynamo. Thoroughly inspect the windings, if insulation is found low, cleaning, varnishing and baking of windings to be done and replacement of bearings to be carried out.	Do. Material yard supply. Load trials to be undertaken post overhauling of both alternators in parallel in parallel upto maximum sustainable ship's load.
LA-5016	Completely overhaul local control panel, replace deteriorated components	Do.
LA -5017	Following safety trips and alarm sensor to be checked and calibrated (i) Low lub oil pressure (ii) High water temperature (iii) Over speed trip	Do. Yard to provide calibration certificate and carry out in-situ trials for safeties. Spares CG supply.
GYRO COMPASS , MAKE- RAYTHEON ANSCHUTZ GmbH , TYPE- STD 22 (UNDER AIAMC)		
LA-5018	Overall the complete unit and replace all O-ring.	Delete for serials LA-5018 to LA-5020
LA-5019	Change the supporting liquid and distilled water and to be proved.	as covered under AIAMC.
LA-5020	Open repeaters, clean it and apply coat of appropriate grease to gimbles, Gear and wheel. Align All repeaters with Master Compass.	
MAGNETIC COMPASS, MAKE- M/S ANCHUTZ, GERMANY, (QTY-01)		
LA-5021	Overhaul magnetic compass and carry out compass swing test.	Delete. SS
250 W MF/HF TX/RX, MAKE- M/S SAMYUNG, TYPE- SRG 2250DN, (QTY-01) (UNDER AIAMC)		
LA-5022	Carry out functional & performance check as per service manual to get optimum performance	Delete. Covered under AIAMC.
EPRIIB, MAKE- SAMYUNG, MODEL- SEP 500, (QTY-01) (UNDER AIAMC)		
LA-5023	Carry out performance check as per manual to get optimum performance.	Delete covered under AIAMC.
V/UHF TX/RX ICOM, MODEL-IC7000 (QTY - 01)		
LA-5024	Carry out performance check as per service manual to get optimum performance.	Delete.
WINDOW WIPER, MAKE- M/S HEPWARTHARRINE, TYPE-BOSCH, (QTY - 06)		
LA-5025	Check the condition of rigid blades, Replace damaged arm and spring. 06 in no. blade to be replaced. Check spray nozzles and free from blockage.	Do. Material yard supply.
LA-5026	Carry out overhauling of motors.	Delete.

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FIRE DETECTION SYSTEM, MAKE M/S TYCO, (QTY-01)(UNDER AIAMC)	
LA-5027	Carry out performance checks with all sensors (manual call point(Qty- 09) smoke detectors(Qty-14) and heat detector(Qty-08)), check the function of magazine sprinkling system and its operation. Delete covered under AIAMC.
SART, MAKE- THRANE, MODEL-SART II, (QTY-02) (UNDER AIAMC)	
LA-5028	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. Delete covered under AIAMC.
AIS, MAKE- SAMYUNG, TYPE- SI-30, (QTY-01)(UNDER AIAMC)	
LA-5029	Carryout functional tests and prove equipment for satisfactory performance Delete covered under AIAMC.
ECDIS, MAKE- MARIS NORWAY, MODEL-MK 10, (QTY- 01)(UNDER AIAMC)	
LA-5030	Carry out performance check, prove the system for optimum performance. Delete covered under AIAMC.
TELEPHONE EXCHANGE, MAKE- PHI AUDIO COM, TYPE- MTS, (QTY- 01), 20 LINES	
LA-5031	Carry out functional checks of all telephone lines including shore line connectivity and prove the exchange/system. Delete.
GEAR BOX, MAKE-M/S ZF MARRINE, MODEL-7650, (QTY-02), PAC FIRM -M/S ZF INDIA PVT LTD, MUMBAI	
LA-5032	Calibrate all sensors for set alarms and shut down. Do through PAC firm. SS to provide details of sensors during RFIC.
WATER JET SYSTEM, MAKE- M/S MJP, MODEL-MJP 650 DD, (QTY-02), PAC FIRM- M/S CORPORATE ALLIANCE, NEW DELHI	
LA-5033	Overhaul water jet control system and if any components broken or damaged repair /replace them and check operation from local, bridge/fly bridge including emergency operation and system to be proved. Do for serials LA-5033 to LA-5037 through PAC firm. Spares CG supply.
LA-5034	Check and calibrate all alarms/sensors.
LA-5035	Check and inspect feedback sensor for steering cylinder
LA-5036	Check and inspect feedback sensor for reversing cylinder
LA-5037	Replace computer battery
GROUP STARTER PANEL & STARTER PANEL MAKE-M/S L & T EBG, NDIA (QTY-03+02)	
LA-5038	Overall the GSP and calibrate all overload relay. Replace broken terminal block and defective contactors, over load relay, MCBs and indication lamp fittings. Calibration should be in presence of SS and certificate to be provided. Do SS to provide details of OLR and MCBs during RFIC.
VHF DSC MAKE SAMYUNG MODEL-STR 6000A, (QTY-02)(UNDER AIAMC)	
LA-5039	Carry out performance check, prove the system for optimum performance Delete covered under AIAMC.
EO CAMERA, MAKE-EIBIT SYSTEM, MODEL- 8" INCH MICROCOMPASS/BR (QTY-01)	
LB-5040	Ship day night camera not booting up, defect to be rectified and system to be proved by carrying out functional tests as mentioned. Interface with radar, functionality of control Delete. Undertake under DFP.

	panel, video recording facility, and target range finding capability.	
	NAVIGATION LIGHTS AND CONTROL PANEL MAKE-DAEYANG ELECTRICAL CO. MODEL -PX1K (QTY-01)	
LA-5041	Clean all light fitting lenses with fresh water and sponge and ensure all lamp holders and connections in the lamp fittings are intact. If required replace lamp holders/lamps and lamp shade	Delete.
	ALARM AND MONITORING SYSTEM, MAKE-L& T EBG,INDIA (QTY-01)	
LA-5042	Overhaul the complete system. Check all input/output signal of all interface equipment. Re-set the equipment after overhauling and Carry out performance check.	Do, Carry out performance checks only.
	MAIN BROADCAST INCLUDING PA SYSTEM, MAKE-PHI AUDIOCOM (QTY-01)	
LA-5043	Check all weather deck junction boxes and socket for corrosion, if required replace the same. Check all microphones for optimum performance and renew defective ones.	Delete.
	SOUND POWER TELEPHONE, MAKE-GITTESEGENOVA, (QTY-04)	
LA-5044	Overhaul all the SPTs and check operation.	Delete.
	IR CAMERA, M/S HBL POWER SYSTEM, HYDERABAD, MODEL- IR CAMERA,(QTY-01)	
LA-5045	Nitrogen purging of the thermal imager camera to be carried out.	Discuss during RFIC.
LA-5046	Overhauling of the system be carried out and proved for satisfactory performance.	
	LONG RANGE ACOUSTIC DEVICE, MAKE-LRAD CORP. MODEL-LRAD-300X, (QTY-01)	
LA-5047	Overhauling of the system be carried out and proved for satisfactory performance.	Discuss during RFIC.
LA-5048	Check deteriorated part/component, if required renewed	Delete.
	DGPS,MAKE- KODEN ELECTRONICS, MODEL-KGP-920,(QTY-01)(UNDER AIAMC)	
LA-5049	Carry out functional checks of all switches, lights and panel.	Delete covered under AIAMC.
	RADAR X-BAND, MAKE-M/S FURUNO ELECTRIC. MODEL-FAR2117BB,(QTY-01)(UNDER AIAMC)	
LA-5050	Carry out complete over hauling of radar, scannerunit, display. Check and replace defective motor bearing. Detailed performance checks to be carried out for display, scanners, transceiver unit, control unit and prove the system for optimum performance	Delete covered under AIAMC.
	ANEMOMETER MAKE-M/S RM YOUNG,MODEL-5106 & 6206,(QTY-01)	
LA-5051	Overhaul the equipment including sensor and calibrate anemometer for speed & direction.	Discuss during RFIC.
	FLEET BROAD BAND,MAKE- M/S FRUNO,MODEL- FELCOM-500(UNDER AIAMC)	
LA-5052	Overhaul the complete units internally, check the performance in all functional modes and prove it for satisfactory operation as per the functionalities listed in the technical manual.	Delete covered under AIAMC.
	WINDLASS STARTER AND MOTOR(4KW,415V,3-PH),MAKE- M/S MUIR, (QTY-01)	
LA-5053.	Overhaul motor	Do.
LA-5054*	Overhaul all control panels, calibrate meters and over load relay	Do. SS to provide details of meters

		&OLR during RFIC.
AC PLANT CONTROL PANEL AND MOTORS,(12KW,415V,3-PHASE),MAKE- M/S KPCL, PUNE (QTY-02)		
LA-5055	Overhaul AC Condenser motor and AHU motor (Total-03)	Do. SS to provide details of motors during RFIC.
LA-5056	Overhaul all control panels, calibrate meters and over load relays, Calibrate all cut outs (HP & LP) and Prove them in the system.	Do. SS to provide details of meters, OLR, and cutouts during RFIC.
BOAT DAVIT CONTROL PANEL AND MOTORS(QTY-02),MAKE- M/S VANSON MARINE		
LA-5057	Overhaul both motor and insulation to be improved.	Do.
LA-5058	Overhaul control panel & calibrate OLR	Do. SS to provide details of OLR.
LA-5059	Internal and external painting of motor casing by spray paint.	Delete covered in LA-5057.
MOTORS, MAKE- DIFFERENT MAKE		
LA-5060	Overhaul the all below mentioned motors and check insulation of winding; internal external painting of body; examine for rotor impeller shaft and bearing housing for flaws, cracks or corrosion, make good or replace as necessary; renewal of bearing and seal; balancing of rotor; repair of terminal box as necessary. The details of motors are as follows: (a) Grey water pump motor (b) Fresh water pump motor (c) Fire sprinkling pump motor (d) Domestic sea water pump motor (e) Fire and bilge pump motor (f) Engine room port blower	Do for serials (a),(b),(d), (e) and (f). Delete for serial (c) as covered in LA-55063. SS to provide rating and quantity of motors during RFIC.
GSP(GROUP STARTER PANRL), MAKE- M/S L&T,INDIA,(QTY-02)		
LA-5061	Overhaul the GSP and calibrate all overload relay. Replace broken terminal block and defective contactors, overload relay, MCBs and indication lamp fittings	Deleted. Covered under LA 5038
MSS Tx/Rx TERMINAL, MAKE- M/S AVANTEL, HYDERABAD,TYPE- ASL-MSSRX-2510(QTY-01)		
LA-5062	Overhauling of the system be carried out and proved for satisfactory performance	Delete.
FIRE AND SPRINKLING PUMP MOTORS, MAKE-M/S L&T, INDIA,(QTY-01)		
LA-5063	Overhaul the motor and control panel	Do.
24V BATTERY CHARGER, 60AMP, MAKE-L& T EBG INDIA,MODEL-PGD24V BATTERY CHARGER,(QTY-01)		
LA-5064	Overhaul the battery charger including transformers. Renew defective /deteriorated components/part and cables lugs/cable terminal stripe. Calibrate all meters.	Do.
LA-5065	Carry out capacity test of all batteries. Replace unsat batteries with new one.	Delete.

24V BATTERY CHARGER (120/25 AMP), MAKE-MASTERVOLT, QTY-03,		
LA-5066	Overhaul the battery charger including transformers, Bus Bar. Renew defective /deteriorated components and cables/cable lugs/ terminals strip, check all LED indication/ficton.	Do.
LA-5067	Recondition/renewed al (04 -M/E)+(04-D/A) batteries if required	Delete.
LA-5068	Carry out capacity test of all batteries. Replace Unset Batteries with new one.	Delete.
LIGHTING DISTRIBUTION BOARD (230 V) MAKE- L& T INDIA (NO-03)		
LA-5069	Check all MCB's in LDB and replace defective if any.	Delete. SS
GALLEY HOT PLATE & OVEN MAKE KANTIALCHUNILAL& CO (NO-02 & 01)		
LA-5070	Overhaul complete Cooking range & Oven alongwith control panel and replace defective components.	Do.
AHU (AC) PLANT MAKE- ZECO INDIA LTD (NO-01)		
LA-5071	Clean and check motor contact, proper operation and over load protection.	Delete covered in LA-5056
SEARCH LIGHT MAKE-M/S DAERYANG ELECTRIC, KOREA (NO-01)		
LA-5072	Check the reflector condition and replaced/renew if damaged/ deteriorated.	Do.
ELECTRIC WHISTLE MAKE-M/S MARCO (NO-01)		
LA-5073	Overhaul electric whistle and control panel. Renew defective components.	Do.
MISCELLANEOUS DEFECTS		
LB-5074	Shore supply box in Q/deck is corroded to be renewed with internal fitment (additional platform for breaker, connector, phase sequence indicator & indication lamp). Mat: Al, Thickness 4mm, size: 3X3 feet.	Delete.
LB-5075	03 solenoid of bridge window wiper malfunctioning to be changed.	Delete. S&D
LB-5076	AC Compressor 2 junction/terminal box corroded. To be renewed.	Delete.
LB-5077	Electrical DB panel locks corroded. To be renewed.	Delete.
LB-5078	Electric whistle base corroded. To be renewed.	Delete.
LB-5079	Submersible socket fitted in quarterdeck deteriorated. To be renewed.	Delete.

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