

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 : 3487

08 Aug 17

**PRE QUALIFICATION FOR ANNUAL UNDER WATER PACKAGE AND YEARLY
ROUTINES OF MACHINERY AND EQUIPMENTS OF ICGS C-156
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 annual under water package and yearly routines of machinery and equipments of **ICGS C-156** based at Pipavav for **40 days** duration alongwith serial wise CGRHQ (NW) remarks has been forwarded todate **08 Aug 17** :-

- (a) Hull : HA 1001 to HA 1042
- (b) Engg : EA 3001 to EA 3092
- (c) Elect : LA 5001 to LA 5065

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 in the month of **Dec 2017** for period of **40 days**. The refit of the ship is to start within 15 days of signing the Refit Contract. However, in case the ship is not available during this period of 15 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.

Contd . . .2/-


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 "**The Station Technical Officer, ICGS Pipavav (Tele: 02794-221604)**" to ascertain availability of ship in harbour and clearance to visit the ship.
6. It is intimated that a Request for Information Conference (RFIC) will be held at **CGRHQ (NW), Gandhinagar/ CGDHQ-1, Porbandar/ICGS Pipavav/onboard ship** 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 technical Officer/Executive Officer 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 atleast 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 drydock) is to be attached with the technical bid so as to ascertain the technical qualification of the yard.**
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 in case 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 **Coast Guard Region (NW), Gandhi Nagar with one copy each to CGDHQ-1, Porbandar , ICGS Pipavav and ICGS C-156** at the addresses given below by 29 Aug 2017 :-

- (a) The Commander
{for CSO (Tech)}
Coast Guard Region (NW)
Post Box No. 09, Gandhi Nagar
Gujarat – 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
ICGS Pipavav
Post Box No. 41, Hindorna Chowk
Jafarabad Road, District – Amreli Rajula
Gujarat -365560
Email- cgs-ppv@indiancoastgurd.nic.in
- (d) The Commanding Officer
~~ICGS-C-156~~
C/o ICGS Pipavav
Post Box No. 41, Hindorna Chowk
Jafarabad Road, District – Amreli Rajula
Gujarat -365560
Email- c156@indiancoastguard.nic.in

Contd . . .4/-

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


(Sajith Sreekumar)
Dy Commandant
Staff Officer (R&R-I)
for Commander
Coast Guard Region (NW)

Enclosure: Main Defect list of ICGS C-156 (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 Pipavav
Post Box No. 41, Hindorna Chowk
Jafarabad Road, District – Amreli Rajula
Gujarat -365560

The Commanding Officer
ICGS C-156
C/o ICGS Pipavav
Post Box No. 41, Hindorna Chowk
Jafarabad Road, District – Amreli Rajula
Gujarat -365560

Enclosure to the CGRHQ (NW)
letter 3487 dated 08 Aug 17

UNDERWATER PACKAGE AND YEARLY ROUTINES OF MACHINERY & EQUIPMENTS: ICGS C-156

DL NO	DESCRIPTION OF DEFECT	ICGS PIPAVAV REMARKS	DHQ-1 REMARKS	RHQ(NW) REMARKS
<u>GENERAL SERVICES</u>				
HA-1001	Suitable and hygiene comfortable accommodation for one Officer, 02 sub-ordinate officer and 10 other ranks with controlled environment.	DO	DO	
HA-1002	Freshwater 01 ton/day and portable drinking water 50 Ltrs/day.	DO	DO	
HA-1003	Fire main pressure 3-5 bar for 24 hours.	DO	DO	
HA-1004	415V, 03 phase, 50 Hz, 20 Amp shore supply with neutral.	DO	DO	
HA-1005	Separate bathroom and toilet facility for Officers, SO's and crew members separately.	DO	DO	
HA-1006	Telephone connections with fax and broad band facility separately for entire period of refit/ 02 nos mobile phone & 01 data card for internet.	DO	DO	Do as per RFIC minutes
HA-1007	One staff car and one transport for Caption and ship's company respectively (10 hrs./100 Kms. per day)	DO	DO	
HA-1008	Office space for Commanding Officer and crew separately.	DO	DO	
HA-1009	Empty container in good condition for stocking the reserve LSHFHS before docking.	DO	DO	
HA-1010	Galley with Gas Stove and Gas cylinder.	DO	DO	
<u>SHIP SIDE, SUPER STRUCTURE & MAST</u>				
HA-1011	100% area to be visually surveyed, carry out non destructive testing (UTG) on suspected area.	DO	DO	Do survey and yard to cater for 200 UTG points
<u>WATER TIGHT DOORS AND HATCHES</u>				
HA-1012	Carry out 100% survey and chalk/Hose testing of all WT doors and hatches.	DO	DO	Do under supervision of class surveyor

GENERAL COMPARTMENTS				
HA-1013	100% area to be visually surveyed, carry out non destructive testing (UTG) on suspected area.	DO	DO	Do survey by class surveyor
SCUPPER AND DRAINS				
HA-1014	Dismantle 50% drain pipe lines, clean chemically and replace gasket. (Length- 6-7 mtrs, Dia-2.5 inch)	DO	DO	Do. 25% only.
HA-1015	Inspect storm valves and renew all scupper lips. (Qty. - 02 nos , size- 50 mm.)	DO	DO	Do. Material yard supply.
FRESHWATER TANK				
HA-1016	Renew manhole cover gaskets.	DO	DO	Do. Material yard supply.
HA-1017	Dry out and inspect compartment structure for failure of paint coating. Remove any loose or flaking paint and all sign of erosion by scraping and wires brushing apply paint as per touch up scheme. (Volumetric Capacity – 2.84 M³) Interline 850/TLA, 850/Grey – 150 DFT Interline 850/TLA, 850/White – 150 DFT Dey film thickness – 300mm	DO	DO	Do. Yard to cater for touch up paint scheme. Paint CG supply.
ANCHOR AND CHAIN CABLE				
HA-1018	Check the condition of polyamide rope and replace polyamide rope with new one, if required. (Make- Danforth, Type- 'A' SHHP fully balanced anchor, Qty-01, Wt- 80 KG, 1.3 Mtr chain with adaptor piece connecting Anchor and PP rope of 110 Mtr).	DO	DO	Do as per surveyor recommendation. Renewal if any against AWRP
ANCHOR WINCH				
HA-1019	Strip and inspect windlass brake mechanism.	DO	DO	Do.
HA-1020	Examine brake linings, pin and bush for wear and renew as necessary.	DO	DO	Do.
HA-1021	Drain oil from gear box and refill fresh oil.	DO	DO	Do. Oil CG supply.
HA-1022	Cable holder gypsy and drums to be removed. Examine for wear and deteriorations.	DO	DO	Do.
HA-1023	Windlass to be overhauled.	DO	DO	Do. Spares CG supply. Material yard supply

OFFICERS & RATINGS WASH ROOM				
HA-1024	Remove 50% drain pipes, clean, pressure test and fit back. (Length-10 Mtr, Dia – 2.5 inch PVC pipe)	DO	DO	Do. 25% only.
FUEL, LUB OIL AND HYD OIL, BILGE HOLDING TANK & DIRTY OIL TANK				
HA-1025	All tanks to be emptied, cleaned and surveyed. (Tanks to be ventilated and gas freed. Yard to provide gas free certificate from department of explosive, prior man entry). Qty- Fuel-02, LO-01, HO-01, Bilge-01 & dirty Oil- 01). Volumetric Capacity: Fuel Oil Tank No.1 – 8.13 M ³ Fuel Oil Tank No.2 – 8.88 M ³ Lub Oil Tank – 0.52 M ³ Waste Oil Tank – 0.52 M ³ Bilge Holding Tank – 0.53 M ³	DO	DO	Do. Survey by class surveyor. Yard to provide gas free certificate.
HA-1026	Clean, scrap and re-paint the damaged paint on the outer surface of tank. INTERGAR D 403/KBA, 400/A BUFF(LIGHT RED)- 125 DFT INTERGAR D 403/KBA, 402/ALUMINIUM GREY – 125 DFT	DO	DO	Do. Paint CG supply.
HA-1027	Manholes cover gaskets and securing bolts to be inspected and defective to be renewed.	DO	DO	Do. Material yard supply. Renewal if any, against AWRF
GREY WATER TANK				
HA-1028	Remove the grey water from tank, clean with liquid detergents and scrap the damaged paint, carry out 100% survey by surveyor. Repaint the tanks as per paint scheme. (Volumetric Capacity – 0.29 M ³) Interline 704/TLA, 702/GRE- 125 DFT, Y 1 st /2 nd – 1 st 125 Dry film thickness – 250mm.	DO	DO	Do. Touch up paint scheme. Paint CG supply.
HA-1029	Manholes cover gaskets and securing bolts to be inspected and defective ones to be renewed.	DO	DO	Do. Material yard supply. Renewal if any against AWRF.

SEWAGE TANK				
HA-1030	Remove the black water from tank, clean with liquid detergents and scrap the damaged paint, carry out 100% survey by surveyor. Repaint the tanks as per paint scheme. (Volumetric Capacity – 0.29 M³) Interline 704/TLA, 702/GRE- 125 DFT, Y 1 st /2 nd – 1 st 125 Dry film thickness – 250mm.	DO	DO	Do touch up paint scheme. Paint CG supply.
HA-1031	Manholes cover gaskets and securing bolts to be inspected and defective ones to be renewed.	DO	DO	Do renewal if any against AWRF
UNDERWATER HULL AND COMPARTMENT				
HA-1032	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 pickup head. Clean all sea growth and apply paint as per paint scheme. TOTAL AREA – 357 sqm. INTERSHIE LD300ENA 301/A17.5 LT ALUMINIUM – 125 DFT INTERSHIE LD300ENA 301/A17.5 LT BRONZE – 125 DFT INTERSLEE K731 BXA 730/A LIGHT PINK – 100 DFT INTERSLEE K757 BXA 756/A RED – 150 DFT	DO	DO	Do yard to cater for touch up paint scheme for under water and boot top area with existing paint scheme. Paint yard supply
HA-1033	Renew all sacrificial anodes (both hull and ASD) which are consumed 50% or more. All other anodes to be cleaned with wire brush. The securing arrangement of sacrificial anodes those consumed less than 50% to be checked. (Qty. – 06 no's, Size – 12 inch).	DO	DO	Do. Anodes yard supply
HA-1034	Carry out UTG of critical or suspected area as per class surveyor recommendation.	DO	DO	Do. Yard to cater for 300 UTG points.
HA-1035	Remove all 03 nos underwater gratings, clean and chip to bare metal and to be refitted after painting as per paint scheme with adequate surface preparation. Renew all damaged fasteners. INTERSLEE K731 BXA 730/A LIGHT PINK – 100 DFT INTERSLEE K757 BXA 756/A RED – 150 DFT	DO	DO	Do in conjunction with HA-1032. Material yard supply.

HA-1036	Paint u/w Hull and boot top area as per paint scheme. CGBR 382 page 101 of 132 Annexure 4C Para 4.2 (a) of chapter 4.	DO	DO	Delete. Covered under HA-1032																					
	<table border="1"> <thead> <tr> <th data-bbox="391 1646 422 2004">Location</th> <th data-bbox="391 1176 422 1646">Paint Description</th> <th data-bbox="391 1108 422 1176">Qty</th> </tr> </thead> <tbody> <tr> <td data-bbox="422 1646 758 2004">Exterior area includes hull under water hull, boot top & jet tunnel. total area 218 sq mtrs (paint scheme: Akzo nobel)</td> <td data-bbox="422 1176 470 1646">Intergaurd 269 EGA 088/A Red</td> <td data-bbox="422 1108 470 1176">40</td> </tr> <tr> <td data-bbox="470 1646 518 2004"></td> <td data-bbox="470 1176 518 1646">Intershield 300 ENA 301/A Aluminium</td> <td data-bbox="470 1108 518 1176">80</td> </tr> <tr> <td data-bbox="518 1646 566 2004"></td> <td data-bbox="518 1176 566 1646">Intershield 300 ENA 300/A Bronze</td> <td data-bbox="518 1108 566 1176">80</td> </tr> <tr> <td data-bbox="566 1646 614 2004"></td> <td data-bbox="566 1176 614 1646">Intersleek 731 light pink BXA 730/A</td> <td data-bbox="566 1108 614 1176">60</td> </tr> <tr> <td data-bbox="614 1646 662 2004"></td> <td data-bbox="614 1176 662 1646">Intersleek 757 red BXA 756/A</td> <td data-bbox="614 1108 662 1176">60</td> </tr> <tr> <td data-bbox="662 1646 710 2004">Boot top (30 sq mtrs) final coat after first 04 coat</td> <td data-bbox="662 1176 710 1646">Intersleek 757 Black BXA 756/A</td> <td data-bbox="662 1108 710 1176">20</td> </tr> </tbody> </table>	Location	Paint Description	Qty	Exterior area includes hull under water hull, boot top & jet tunnel. total area 218 sq mtrs (paint scheme: Akzo nobel)	Intergaurd 269 EGA 088/A Red	40		Intershield 300 ENA 301/A Aluminium	80		Intershield 300 ENA 300/A Bronze	80		Intersleek 731 light pink BXA 730/A	60		Intersleek 757 red BXA 756/A	60	Boot top (30 sq mtrs) final coat after first 04 coat	Intersleek 757 Black BXA 756/A	20			
Location	Paint Description	Qty																							
Exterior area includes hull under water hull, boot top & jet tunnel. total area 218 sq mtrs (paint scheme: Akzo nobel)	Intergaurd 269 EGA 088/A Red	40																							
	Intershield 300 ENA 301/A Aluminium	80																							
	Intershield 300 ENA 300/A Bronze	80																							
	Intersleek 731 light pink BXA 730/A	60																							
	Intersleek 757 red BXA 756/A	60																							
Boot top (30 sq mtrs) final coat after first 04 coat	Intersleek 757 Black BXA 756/A	20																							
HA-1037	The ASD compartment to be cleaned with paint remover, scrapers and re-painted as per paint scheme. Inner circumference of 02 nos ASD transom plates to be painted on completion of ASD routines. <u>Note:</u> Expect transom (inner side) applied with FRP coating and Simplan seal area. INTERGARO 269/EGA08, 8/RED – 50 DFT	DO	DO	Do. Paint CG supply.																					
HA-1038	Paint draught marks.	DO	DO	Do. Paint CG supply.																					
HA-1039	Open spray rail cocks and flush with bituminous liquid.	DO	DO	Do. Paint CG supply.																					
HA-1040	Dielectric shield to be examined for wear and damaged layer of resin/araldite to be re-coat as per specification.	DO	DO	Do. Paint CG supply.																					
<u>INFLATABLE LIFE RAFT</u>																									
HA-1041	Dismantle the hydrostatic release unit (HRU). Overhaul and test release gear.	DO	DO	Delete. To be undertaken under annual rate contract.																					
HA-1042	Carry out annual survey of life raft for inspection and testing.	DO	DO	Delete.																					

ENGINEERING

DL NO	DESCRIPTION OF DEFECT	ICGS PIPAVAV REMARKS	DHQ-1 REMARKS	RHQ(NW) REMARKS
GEAR BOX, MAKE- M/S TWIN DISC, TYPE-MGX6690SC, QTY-02 NOS, PAC – M/s Aries Technical Sales & Service Pvt Ltd Mumbai				
EA 3001	Retighten all bolts from outside.	DO	DO	Do. Through PAC firm.
EA 3002	Check shaft position adjustment.	DO	DO	Do. Through PAC firm.
ARNESON SURFACE DRIVE, MAKE- M/S TWIN DISC, TYPE-ASD16A1S, QTY-02 NOS, PAC – M/s Aries Technical Sales & Service Pvt Ltd Mumbai				
EA 3003	Operate the system from bridge and steering room in both follow up and non follow up mode.	DO	DO	Do. Through PAC firm.
EA 3004	Check solenoid valve.	DO	DO	Do. Through PAC firm.
EA 3005	Clean and inspect propeller shaft seal.	DO	DO	Do. Through PAC firm.
DG SET, MAKE- M/S CATER PILLAR, TYPE-C4.4, QTY-02 NOS, PAC- M/s GMMCO, Rajkot				
EA 3006	Inspect/Adjust engine valve lash.	DO	Project as and when due	Delete. DLS are covered under 1000hrly routines. Undertake routines under DFP whenever falls due.
EA 3007	Check engine safety device.	DO		

AC PLANT, MAKE- M/S HEINEN & HOFFMAN PVT LTD, TYPE-6DA 537, CAPACITY-12 TR, QTY-02 NOS, PAC- M/s Heinen & Hoffman Engineering India Pvt Ltd, Kolkatta				
EA 3008	Inspect chemical clean condenser pump strainer.	DO	DO	Do through PAC firm.
EA 3009	Inspect and chemical clean condenser tubes as required.	DO	DO	Do through PAC firm.
EA 3010	Inspect sheets and gaskets of condenser.	DO	DO	Do through PAC firm.
EA 3011	Check the operation of two way solenoid valve.	DO	DO	Do through PAC firm.
EA 3012	Check the operation of expansion valve.	DO	DO	Do through PAC firm.
EA 3013	Replace compressor oil.(Oil- RL68H, Qty- 05 ltr).	DO	DO	Do through PAC firm. Oil CG supply.
EA 3014	Top over hauling of compressor to be carried out.	DO	DO	Do through PAC firm. Spares CG supply.
EA 3015	Vacuum and pressure test to be carried out for 24 hrs.	DO	DO	Do through PAC firm. Refrigerant and nitrogen yard supply
EA 3016	Vacuum and pressure test for 24 hrs each.	DO	DO	Delete. Covered under EA-3015
AHU, MAKE- M/S HEINEN & HOFFMAN PVT LTD, TYPE-ETU-020H, QTY-01 NO, PAC- M/s Heinen & Hoffman Engineering India Pvt Ltd, Kolkatta				
EA 3017	Check whether the connections are intact and vibration dampers not harmed.	DO	DO	Do through PAC firm.
EA 3018	Check for corrosion and leakage of cooling coil.	DO	DO	Do through PAC firm.
EA 3019	Carry out chemical cleaning of cooling coils.	DO	DO	Do through PAC firm.
EA 3020	Blow through the cooling coil with air stream from counter flow direction.	DO	DO	Do through PAC firm.
FM 200 FIRE FIGHTING SYSTEMS MAKE- ZEAL MARKETING PVT. LTD, TYPE-FM 200, QTY- 01 NO. PAC- M/S ZEAL MARKETING, MUMBAI.				
EA 3021	Remove nozzle from piping to allow any foreign material to blow clear.	DO	DO	Do through authorised firm.

EA 3022	Remove all pressure operated control from FM-200 cylinders.	DO	DO	Do through authorised firm.
EA 3023	Open distributing valve and keep open long enough cleanliness of pipe.	DO	DO	Do through authorised firm.
EA 3024	Reconnect all control heads.	DO	DO	Do through authorised firm.
EA 3025	Over haul the control system, monitoring system, and fire detection system.	DO	DO	Do through authorised firm.
EA 3026	Clean the pipe line system and carry out pressure testing of the system.	DO	DO	Do through authorised firm.
EA 3027	Weight the cylinder and recharge, if weight loss is more than 10%.	DO	DO	Do through authorised firm. Recharge of gas if any, against AWR/F.
EA 3028	Clean discharge nozzle.	DO	DO	Do through authorised firm.
BILGE & GS PUMP AND FIRE & GS PUMP, MAKE-M/S SPX FLOW TECHNOLOGY PVT LTD, TYPE- KGEFC 16-6, QTY-02 NOS., PAC- M/S SPX FLOW TECHNOLOGY PVT LTD, Ahmadabad				
EA 3029	Dismantle the pump.	DO	DO	Do.
EA 3030	Replace the bearings.	DO	DO	Do. Material yard supply.
EA 3031	Replace the mechanical seal.	DO	DO	Do. Material yard supply.
EA 3032	Check the tip clearances.	DO	DO	Do. Material yard supply.
EA 3033	Check the wear and tear on impeller.	DO	DO	Do. Material yard supply.
EA 3034	Change wear ring and guide ring.	DO	DO	Do. Material yard supply.

FUEL OIL SYSTEM, MAKE-BHARATI SHIPYARD LTD, QTY- 01 NO			
EA 3035	Overhaul and pressure test quick shut off valves.		Do. 25% only. Material yard supply.
	Type of valve	Qty	DO
	Ball valve DN 25	04	
	Ball valve DN 10	12	
	Ball valve DN 40	09	
	Quick closing valve DN 40	01	
	Glove check valve DN 40	02	
	Glove check valve DN 25	03	
	Ball valve DN 32	01	
	Ball valve DN 15	02	
	Ball valve DN 20	02	
EA 3036	Overhaul hand pumps.(02 no's)		Do. Material yard supply.
HYDRAULIC OIL SYSTEM, MAKE- M/S TWIN DISC, QTY -01 NO			
EA 3037	Overhaul and pressure test of system valves. (size- 1 inch ball valve, Qty- 02 nos)		Do. Material yard supply.
EA 3038	Examine tank sounding and vent pipes for defects. L-30 Mtrs, Size- 1/2", 1" rubber flexible hose.		Do.

SEA WATER COOLING SYSTEM, MAKE- BHARATI SHIPYARD LTD																																
EA 3039	Overhaul and pressure test of system valves.	DO	DO	Do. 25% only. Material yard supply.																												
	<table border="1"> <thead> <tr> <th>Type of valve</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>Butterfly valve DN 50</td> <td>02</td> </tr> <tr> <td>Check valve DN 125</td> <td>02</td> </tr> <tr> <td>Butterfly valve DN 65</td> <td>01</td> </tr> <tr> <td>SDNR valve DN 80</td> <td>02</td> </tr> <tr> <td>Butterfly valve DN 100</td> <td>02</td> </tr> <tr> <td>SDNR valve DN 100</td> <td>02</td> </tr> <tr> <td>Check valve DN 65</td> <td>01</td> </tr> <tr> <td>SDNR valve DN 65</td> <td>01</td> </tr> <tr> <td>Butterfly valve DN 50</td> <td>02</td> </tr> <tr> <td>SDNR valve DN 50</td> <td>01</td> </tr> <tr> <td>SDNR valve DN 50</td> <td>01</td> </tr> <tr> <td>SDNR valve DN 25</td> <td>02</td> </tr> <tr> <td>SDNR valve DN 40</td> <td>02</td> </tr> </tbody> </table>	Type of valve	Qty	Butterfly valve DN 50	02	Check valve DN 125	02	Butterfly valve DN 65	01	SDNR valve DN 80	02	Butterfly valve DN 100	02	SDNR valve DN 100	02	Check valve DN 65	01	SDNR valve DN 65	01	Butterfly valve DN 50	02	SDNR valve DN 50	01	SDNR valve DN 50	01	SDNR valve DN 25	02	SDNR valve DN 40	02			
Type of valve	Qty																															
Butterfly valve DN 50	02																															
Check valve DN 125	02																															
Butterfly valve DN 65	01																															
SDNR valve DN 80	02																															
Butterfly valve DN 100	02																															
SDNR valve DN 100	02																															
Check valve DN 65	01																															
SDNR valve DN 65	01																															
Butterfly valve DN 50	02																															
SDNR valve DN 50	01																															
SDNR valve DN 50	01																															
SDNR valve DN 25	02																															
SDNR valve DN 40	02																															
EA 3040	Carry out chemical cleaning and pressure testing of pipes. (L- 30 Mtrs, Size- 3", 2 1/2", Mat -CuNi)	DO	DO	Do. 25% only. Material yard supply.																												
BILGE SYSTEM, MAKE- BHARATI SHIPYARD LTD																																
EA 3041	Overhaul and pressure test all bilge system valves.	DO	DO	Do. 25% only. Material yard supply.																												
	<table border="1"> <thead> <tr> <th>Type of valve</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>Check valve DN 50</td> <td>07</td> </tr> <tr> <td>Butterfly valve DN 50</td> <td>07</td> </tr> <tr> <td>Globe valve (OBD) DN 65</td> <td>01</td> </tr> <tr> <td>Check valve DN 65</td> <td>01</td> </tr> <tr> <td>Butterfly valve DN 65</td> <td>04</td> </tr> <tr> <td>Globe valve QSD</td> <td>01</td> </tr> <tr> <td>SDNR valve DN 65</td> <td>02</td> </tr> </tbody> </table>	Type of valve	Qty	Check valve DN 50	07	Butterfly valve DN 50	07	Globe valve (OBD) DN 65	01	Check valve DN 65	01	Butterfly valve DN 65	04	Globe valve QSD	01	SDNR valve DN 65	02															
Type of valve	Qty																															
Check valve DN 50	07																															
Butterfly valve DN 50	07																															
Globe valve (OBD) DN 65	01																															
Check valve DN 65	01																															
Butterfly valve DN 65	04																															
Globe valve QSD	01																															
SDNR valve DN 65	02																															

FIRE MAIN SYSTEM, MAKE- BHARATI SHIPYARD LTD																	
EA 3042	Overhaul and pressure test system valves.	DO	DO	DO	Do. 25% only. Material yard supply.												
	<table border="1"> <thead> <tr> <th>Type of valve</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>Check valve DN 65</td> <td>01</td> </tr> <tr> <td>Butterfly valve DN 65</td> <td>02</td> </tr> <tr> <td>Fire Hydrant valve DN 65</td> <td>04</td> </tr> <tr> <td>Isolating valve (globe) 1NB</td> <td>01</td> </tr> </tbody> </table>	Type of valve	Qty	Check valve DN 65	01	Butterfly valve DN 65	02	Fire Hydrant valve DN 65	04	Isolating valve (globe) 1NB	01						
Type of valve	Qty																
Check valve DN 65	01																
Butterfly valve DN 65	02																
Fire Hydrant valve DN 65	04																
Isolating valve (globe) 1NB	01																
BLACK AND GRAY WATER SYSTEM, MAKE- BHARATI SHIPYARD LTD																	
EA 3043	Overhaul and pressure test system valves. (Ball valve-01 No, size- 3 1/2")	DO	DO	DO	Do. Material yard supply.												
EA 3044	Carry out chemical cleaning and pressure testing of system pipes. (L-30 Mtrs, Dia-2 1/2", Mat-PVC)	DO	DO	DO	Do. 25% only. Material yard supply.												
EA 3045	Check performance of pumps. Qty-01 no	DO	DO	DO	Do.												
EA 3046	Examine vent pipes for any defects.	DO	Deleted. SS routine as per Maintenance schedule.	Deleted. SS routine as per Maintenance schedule.	Delete. SS												
FRESH WATER SYSTEM, MAKE- BHARATI SHIPYARD LTD																	
EA 3047	Carry out chemical cleaning and pressure testing of system. (L-50 Mtr, Dia- 1" & 1/2", mat- PVC)	DO	DO	DO	Do. 25% only. Material yard supply.												
EA 3048	Carry out overhauling and pressure testing of system valves.	DO	DO	DO	Do. 25% only. Material yard supply.												
	<table border="1"> <thead> <tr> <th>Type of valve</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>Check valve 1"</td> <td>04</td> </tr> <tr> <td>Ball valve 1"</td> <td>04</td> </tr> <tr> <td>Ball valve 1/2"</td> <td>04</td> </tr> <tr> <td>Taps for bathroom</td> <td>13</td> </tr> </tbody> </table>	Type of valve	Qty	Check valve 1"	04	Ball valve 1"	04	Ball valve 1/2"	04	Taps for bathroom	13						
Type of valve	Qty																
Check valve 1"	04																
Ball valve 1"	04																
Ball valve 1/2"	04																
Taps for bathroom	13																
EA 3049	Check function of relief valves.(Qty-01)	DO	DO	DO	Do.												
EA 3050	Examine vent pipes for defects.	DO	Deleted. SS routine as per Maintenance schedule.	Deleted. SS routine as per Maintenance schedule.	Delete. SS												

EA 3051	Calibrate pressure switch and pressure gauge. (Qty- Pressure switch -01, Pressure Gauge- 01)	DO	DO	DO	Do. yard to provide Calibration certificate										
ENGINE ROOM BILGES, MAKE- BHARATI SHIPYARD LTD															
EA 3052	Examine filling vent pipes for defects.	DO	DO	DO	Delete.										
WASTE AND LUB OIL SYSTEM, MAKE- BHARATI SHIPYARD LTD															
EA 3053	Overhaul valves.	DO	DO	DO	Do. 25% only. Material yard supply.										
	<table border="1"> <thead> <tr> <th>Type of valve</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>Glove Check valve, DN 40</td> <td>01</td> </tr> <tr> <td>Glove check valve DN 25</td> <td>03</td> </tr> <tr> <td>Glove check valve DN 32</td> <td>01</td> </tr> <tr> <td>Ball valve DN 20</td> <td>04</td> </tr> </tbody> </table>	Type of valve	Qty	Glove Check valve, DN 40	01	Glove check valve DN 25	03	Glove check valve DN 32	01	Ball valve DN 20	04				
Type of valve	Qty														
Glove Check valve, DN 40	01														
Glove check valve DN 25	03														
Glove check valve DN 32	01														
Ball valve DN 20	04														
EA 3054	Carry out chemical cleaning and pressure testing of pipe line. (1-20 Mtr, Dia- 3 1/2", Mat-SS)	DO	DO	DO	Do. 25% only. Material yard supply.										
EA 3055	Carry out pressure testing of flexible hoses. (L-05 Mtrs)	DO	DO	DO	Do.										
EA 3056	Overhaul semi rotary hand pump.	DO	DO	DO	Do. Material yard supply.										
EMERGENCY DIESEL DRIVEN FIRE PUMP, MAKE- SPX FLOW TECHNOLOGY, TYPE- KGEC 16-6, QTY-01 NO, PAC- M/S SPX FLOW TECHNOLOGY PVT LTD, Ahmadabad															
EA 3057	Carry out overhauling of emergency fire pump as per instructions laid down in manual. (Model – 1510. Sr no.- A1A0440239)	DO	DO	DO	Delete.										
MAGAZINE SPRINKLING SYSTEM, MAKE- BHARATI SHIPYARD LTD															
EA 3058	Dismantle the valves, check for corrosion and send to work shop for over hauling. (Ball valve Size- 1", Qty-01)	DO	DO	DO	Do.										
EA 3059	Replace Bulb element. (Qty-01)	DO	DO	DO	Do. Material yard supply.										
AC CONDENSER PUMP, MAKE-M/S SPX FLOW TECHNOLOGY, PVT LTD, TYPE- KGEC 12B-5, QTY-01 NO. PAC- M/S SPX FLOW TECHNOLOGY PVT LTD, Ahmadabad															
EA 3060	Dismantle the pump.	DO	DO	DO	Do.										
EA 3061	Replace the bearings.	DO	DO	DO	Do. Material yard supply.										

EA 3062	Replace the mechanical seal.	DO	DO	Do. Material yard supply.
EA 3063	Check the tip clearances.	DO	DO	Do.
EA 3064	Check the wear and tear on impeller.	DO	DO	Do.
EA 3065	Change wear ring and guide ring.	DO	DO	Do. Material yard supply.
GREY WATER PUMP, MAKE-TECNICOMAR, TYPE-BCM20, QTY-01 NO.				
EA 3066	Dismantle the pump.	DO	DO	Do.
EA 3067	Replace the bearings.	DO	DO	Do. Material yard supply.
EA 3068	Replace the mechanical seal.	DO	DO	Do. Material yard supply.
EA 3069	Check the tip clearances.	DO	DO	Do.
EA 3070	Check the wear and tear on impeller.	DO	DO	Do.
EA 3071	Change wear ring and guide ring.	DO	DO	Do. Material yard supply.
FRESH WATER PUMP, MAKE-M/S SPX FLOW TECHNOLOGY, PVT LTD, TYPE- KGEFC 16-3, QTY-02 NOS. PAC- M/S SPX FLOW TECHNOLOGY PVT LTD, Ahmadabad				
EA 3072	Dismantle the pump.	DO	DO	Do.
EA 3073	Replace the bearings.	DO	DO	Do. Material yard supply.
EA 3074	Replace the mechanical seal.	DO	DO	Do. Material yard supply.
EA 3075	Check the tip clearances.	DO	DO	Do.
EA 3076	Check the wear and tear on impeller.	DO	DO	Do.
EA 3077	Change wear ring and guide ring.	DO	DO	Do. Material yard supply.
FUEL OIL TRANSFER PUMP, MAKE-SPX FLOW TECHNOLOGY, MODEL-TGL047, QTY-01 NO PAC- M/S SPX FLOW TECHNOLOGY PVT LTD, Ahmadabad				
EA 3078	Dismantle the pump.	DO	DO	Do.
EA 3079	Replace the bearings.	DO	DO	Do. Material yard supply.

EA 3080	Replace the mechanical seal.	DO	DO	DO	Do. Material yard supply.
EA 3081	Check the tip clearances.	DO	DO	DO	Do.
EA 3082	Check the wear and tear on impeller.	DO	DO	DO	Do.
EA 3083	Change wear ring and guide ring.	DO	DO	DO	Do. Material yard supply.
SEWAGE TREATMENT PLANT, MAKE-TECHNICOMA R.S.P.A., TYPE-ECOMAR 6AC, QTY- 01 NO					
EA 3084	Manually start the pump and stop immediately in case of no rotation of the impeller.	DO	DO	DO	SS.
EA 3085	Remove the back cover and rotate the axis manually.	DO	DO	DO	Do through authorised firm.
EA 3086	Replace the disinfecting liquid.	DO	DO	DO	Do through authorised firm. Material CG supply.
EA 3087	On the control panel set the operation mode to manual.	DO	DO	DO	Delete. SS
EA 3088	Check the rotation sense of each pump.	DO	DO	DO	Do through authorised firm.
AIR COMPRESSOR, MAKE- PNEUMECH COMPRESSOR CO., TYPE- PM-205 (2 HP), QTY-01 NO. PAC- M/S JHONSON					
CONTROLS MARINE AND REFRIGERATION INDIA LTD PUNE.					
EA 3089	Overhaul the compressor.	DO	DO	DO	Do through authorised firm. Spares CG supply.
FUEL OIL/WATER SEPERATOR, MAKE-MTU, QTY-01 NO. PAC- M/S VICTOR MARINE LTD UK.					
EA 3090	Differential pressure gauge of fuel treatment system: Check alarm function.	DO	DO	DO	Do.
EA 3091	Check pumps capacity of fuel treatment system.	DO	DO	DO	Do.
EA 3092	Check operation of rod electrode in fuel treatment system.	DO	DO	DO	Do.

ELECTRICAL

DL NO	DESCRIPTION OF DEFECT	ICGS PIPAVAV REMARKS	DHQ-1 REMARKS	RHQ(NW) REMARKS
MAIN ENGINE CONTROLS , MAKE- M/S MTU PTE LTD SINGAPORE , TYPE-MCS 5 ,QTY-02, PAC- M/S Yeoman Marine Private Limited.				
LA 5001	Carry out functional test and calibrate & prove all sensors and safeties of Engines. Check the condition to all electrical connection in LOP, Bridge & Fly Bridge for loose connection, deterioration of wiring/cables and replace if required. (Sensor Qty- 08 Nos per engine).	DO	DO	DO through PAC firm
DIESEL GENERATOR, MAKE- CATERPILLAR ,TYPE-C4.4 DITA, QTY-02 NO'S, PAC- M/S GMMCO Ltd Rajkot.				
LA 5002	Inspect and clean winding. If insulation is found low, cleaning, varnishing and baking of winding to be carried out.	DO	DO	DO through authorised firm
LA 5003	Overhaul full generator assembly including AVR, battery starter and space heater.	DO	DO	DO through authorised firm
LA 5004	Check the capacity of generator with ship's load on 100%,75% & 50%.	DO	DO	DO through authorised firm
LA 5005	Following safety trips and alarm sensor to be checked and calibrated: (i)Low lube oil pressure (i)High water temp (iii)Over speed trips	DO	DO	DO through authorised firm. Yard to provide Calibration certificate
LA 5006	Following gauges to be checked and calibrated:- (i)Lube oil pressure gauge (ii)Fresh water temp gauge (iii)RPM gauge	DO	DO	DO through authorised firm. Yard to provide Calibration certificate
MAIN SWITCH BOARD, MAKE- M/S MARINE ELECTRICAL, TYPE- ELETEK VALERE, QTY-01 NO				

LA 5007	Carry out calibration of all meters (volt meter, ammeter, Kw meter and frequency meter).	DO	DO	DO. Yard to provide calibration certificate.
	<ol style="list-style-type: none"> 1. Fq meter – 04 nos , 0.05hz 2. Kw meter – 02 nos , (15-100) kw 3. voltmeter – 04 nos , 0.500 V 4. Ammeter – 03 nos , 0.200 A 			
LA 5008	Safety checks to be carried out for main breakers (voltage trip, over load and reverse power trip).	DO	DO	DO.
GYRO COMPASS & REPEATERS, MAKE- M/S RAYTHEON ANSCHUTZ, STD-22,QTY-01 NO & 03 NO'S, PAC- M/S ELCOME INTEGRATED SYSTEMS PVT. LTD NAVI MUMBAI.				
LA 5009	Open master compass and dismantle the gyro sphere & inspect all other subassembly for any damage/deterioration. Check the gyro compass for optimum performance.	DO	DO	DO through PAC firm
LA 5010	Change the supporting liquid and distilled water. Replace filter ring, Teflon washer & gasket etc.	DO	DO	DO through PAC firm
LA 5011	Ensure repeaters are aligned with main gyro and gyro feed is available to Radar and other connects equipment.	DO	DO	DO through PAC firm
LA 5012	Open repeaters, clean it and apply thin coat of appropriate grease to gambals, gear and wheel or teeth belt.	DO	DO	DO through PAC firm. SS to indicate specification of grease during RFIC.
RADAR 'X' BAND, MAKE- M/S FURUNO, TYPE-FAR-8122, QTY-01 NO. PAC- M/S AS MOLOOBHOY PV. LTD MUMBAI.				
LA 5013	Carry out complete overhauling of Radar, service check for Display, Scanners, Tranceiver unit, control unit and prove the system for the optimum performance.	DO	DO	Delete. Covered under AIAMC

ECHO SOUNDER, MAKE- M/S KODEN, TYPE: LS6100E, QTY- 01 NO. PAC- M/S ELCOME INTEGRATED SYSTEM PVT. CTD. NAVI MUMBAI.				
LA 5014	Check transducer for water tightness and check transducer cables for insulation.	DO	DO	DO through PAC firm
LA 5015	Calibrate equipment & check accuracy.	DO	DO	DO through PAC firm
LA 5016	On dry docking of vessel, after seating on blocks, clean and preserve transducers and before undocking ensure preservation material to be removed and transducer are thoroughly cleaned.	DO	DO	DO through PAC firm
ULTRASONIK WIND SENSER, MAKE- FURUNO, TYPE- WS200, QTY-01 no				
LA 5017	Carry out cleaning and calibration of ultrasonic wind sensor.	DO	DO	DO
EM LOG, MAKE- M/S ALIZE, QTY-01 NO.				
LA 5018	Carry out calibration of EM Log and compare the readings with GPS speed. Difference should be within permissible limits.	DO	DO	DO
GPS, MAKE- M/S KODEN ELECTRONICS CO LTD. ,TYPE:KGP-193MKIID, QTY-01 NO PAC- M/S ELCOME INTEGRATED SYSTEM PVT. CTD. NAVI MUMBAI.				
LA 5019	Carry out functional checks of all switches, light and panel.	DO	DO	Delete. Undertake under DFPR
MF/HF TX/RX 150W MAKE- I-COM, TYPE-IC-M802, QTY-01 NO.				
LA 5020	Performance checks to be carried out and functional operational to be proved.	DO	DO	Delete. Undertake under DFPR
HF POWER SUPPLY UNIT, MAKE – M/S I-COM, TYPE ATU 140, QTY-01 NO.				
LA 5021	Performance checks to be carried out at rated supply voltage. Deteriorated component if any to be changed.	DO	DO	Delete. Undertake under DFPR
VHF Tx/Rx, MAKE- M/S FURUNO, TYPE-FM4000, QTY- 02 NOS PAC- M/S AS MOLOOBHOY PV. LTD MUMBAI.				
LA 5022	Performance checks to be carried out and functional operational to be proved.	DO	DO	Delete. Undertake under DFPR

V/UHF, MAKE- M/S I-COM, TYPE- I-COM 208H, QTY- 01 NO PAC- M/S AS MOLOOBHOY PV. LTD MUMBAI .					
LA 5023	Performance checks to be carried out as per instructions laid down in service manual.	DO	DO	DO	Delete. Undertake under DFPR
FLEET BROAD BAND, MAKE- THARANE & THARANE, TYPE- FBB-150, QTY- 01 NO,					
LA 5024	Overhaul the complete units internally, check the performance in all functional modes and proved it for satisfactory operation.	DO	DO	DO	DO through PAC firm
EPIRB, MAKE- M/S SAMYUNG, KOREA, SEP500, QTY- 01 PAC- M/S ELCCOME INTEGRATED SYSTEM PVT. CTD. NAVI MUMBAI.					
LA 5025	Annual servicing of equipment to be carried out by OEM/PAC firm with servicing/test report.	DO	DO	DO	Delete. Undertake under DFPR
LA 5026	Replacement of HRU to be carried out as per procedure laid down in EPRIB users manual.	DO	DO	DO	Delete. Undertake under DFPR
SART, MAKE- M/S SAMYUNG, KOREA SAR-9, PAC- M/S ELCCOME INTEGRATED SYSTEM PVT. CTD. NAVI MUMBAI.					
LA 5027	Functional test with Radar to be carried out.	DO	DO	DO	Delete. Undertake under DFPR
LA 5028	Replace battery, if expiry date falling due. (Voltage- 7.2V, Exp. Date- APR 2020)	DO	DO	DO	Delete. Undertake under DFPR
SEARCH LIGHT, MAKE- M/S FRANCIS, TYPE: VOYAGER A 2261 WM330RC, QTY-01 NO					
LA 5029	Carry out optimum performance check on sub assemblies.	DO	DO	DO	DO
ELECTRIC WHISTLE, MAKE- M/S KOCKUM SONICS, TYPE- TI 98, QTY- 01 NO					
LA 5030	Overhaul the equipment completely.	DO	DO	DO	DO
LA 5031	Check components for sign of deterioration. Replace the deteriorated wiring and components.	DO	DO	DO	DO
WINDOW WIPER SYSTEM, MAKE- M/S STANDARD, TYPE-STANDARD, QTY-04 NOS					
LA 5032	Check the condition of rigid blades, & replace, if required.	DO	DO	DO	DO
LA 5033	check blade arm and spring for any damage.	DO	DO	DO	DO
LA 5034	Check spray nozzles are free from blockages.	DO	DO	DO	DO
LA 5035	Carry out overhauling of motors.	DO	DO	DO	DO. SS to indicate rating of motors during RFIC
FIRE DETECTION AND ALARM SYSTEM, MAKE- M/S ZEAL MARKETING MUMBAI, TYPE ZEAL, QTY-01 NO.					
LA 5036	Carry out performance checks and prove the system.	DO	DO	DO	DO

ICCP CONTROL PANEL & PROTECTION SYSTEM, MAKE- M/S CUPROBAN SYSTEM PTE LTD, SINGAPORE, TYPE-SMPL121002V2, QTY-01 NO, PAC- M/S SARGAM METELS PVT.LTD. CHENNAI			
LA 5037	Inspect anodes and reference electrode for any mechanical damage/deterioration.	DO	DO through PAC firm
LA 5038	Carry out functional test & calibrate all meters.	DO	DO through PAC firm
LA 5039	Carry out insulation checks w.r.t Hull.	DO	DO through PAC firm
GALLEY HOT PLATE, MAKE- ELICA (M/s KOHINOOR APPLIANCES) TYPE-PIANO PWT 6C6HO, QTY-01 NO			
LA 5040	Check insulation of heating elements.	DO	DO
LA 5041	Check function of range switches.	DO	DO
LA 5042	(a) Replace control wiring found cracked due to overheating. (b) Replace defective wiring, end connection and sleeve of hot plate.	DO	DO
BATTERIES, MAKE- EXIDE, TYPE-LEAD ACID, QTY-18 NOS			
LA 5043	Carry out capacity test of all batteries.	DO	Delete. Undertake under DFPR
DEEP FREEZER, MAKE- M/S ECO COOL, TYPE- 350LTRS, QTY- 01 NO			
LA 5044	Overhaul the complete system & check for any mechanical damage/corrosion. Repair/replace them if required.	DO	Delete. Undertake under DFPR
ECDIS, MAKE- M/S MARIS,TYPE- MK6, PAC- A S MOLOOBHOY PVT. LTD. MUMBAI			
LA 5045	Performance checks to be carried out. Load the latest electronic chart and prove.	DO	Delete. Covered under AIAMC
TALK BACK/PA SYSTEM, MAKE- M/S JOTRON (PHONTECH), TYPE- CS-3101, QTY- 01 NO PAC- M/S ELECTRONIK LAB MUMBAI.			
LA 5046	Performance checks to be carried out and change the deteriorated component if any.	DO	Delete. Undertake under DFPR
LA 5047	Check all weather deck fittings of PA for tightness including loud hailer and mics.	DO	Delete. Undertake under DFPR

DISTRIBUTION BOARDS, MAKE- MARINE ELECTRICALS, QTY- 06 NOS				
LA 5048	Check the corroded mounting platform and take corrective action.	DO	DO	SS
LA 5049	Check the proper operating of MCBs, switches & control units. Replace defective components with correct ratings.	DO	DO	DO
LA 5050	Check the insulation of the cable.	DO	DO	DO
LA 5051	Check the condition of the paint. If required, re-paint.	DO	DO	DO. Paint yard supply.
STARTER/ CONTROL PANELS, MAKE- MARINE ELECTRICALS/HEINEN& HOPMAN, QTY- 13 NOS				
LA 5052	Calibration of OLRs to be carried out by using CIT test.	DO	DO	Delete for LA-5052 to LA-5057 as covered in LA-5058
LA 5053	All defective components to be renewed.	DO	DO	
LA 5054	Check the corroded mounting bases.	DO	DO	
LA 5055	Check the proper operating of MCBs, switches, control units, contractors and OLRs. Renew defective components, if any.	DO	DO	
LA 5056	Check the insulation of the cable.	DO	DO	DO. Paint yard supply
LA 5057	Check the condition of the paint. If required, repaint.	DO	DO	
LA 5058	Carry out overhauling of panel.	DO	DO	
SHORE CONNECTION BOX, MAKE- M/S MARINE ELECTRICALS, QTY- 01 NO				
LA 5059	Check the corroded mounting base.	DO	DO	SS
LA 5060	Check the insulation of the cable.	DO	DO	DO
LA 5061	Check the condition of the paint, if required, repaint.	DO	DO	DO. Paint Yard supply.
LA 5062	Calibrate the Voltmeter, Ammeter, Frequency meter, Watt Meter and Breaker fitted on the shore connection box. Replace the defective components, if required.(Qty. – 02 nos).	DO	DO	DO. SS to indicate ratings of meters during RFTC
TANK GAUGE SYSTEM, MAKE- PSM INSTRUMENTATION LTD. UK, TYPE-2215, QTY- 01 NO PAC M/S AS MOLOOBHOY PV. LTD MUMBAI.				
LA 5063	Calibrate all sensors and replace all defective components.(Qty. – 06 nos).	DO	DO	Delete. Covered under AIAMC
SEWAGE TREATMENT PLANT, MAKE- TECHNICOMAR, TYPE- ECOMAR, QTY- 01 NO				
LA 5064	Check the function of electrical circuit and components. Replace defective component.	DO	DO	DO

ALL ELECTRIC MOTORS, TYPE: 415V/230V, 50 HZ, QTY-23 NOS LA 5065	DO	DO	DO	DO as per RFIC.
All motors are to be overhauled. Overhauling of motors include following:				
(a) Examine for rotor impeller shaft and bearing housing for flaws, cracks and corrosion Make good or replace as necessary.				
(b) Renewal of bearing and seals.				
(c) Painting of motor.				
(d) Balancing of rotor.				
(e) Repair of terminal box.				
(f) Running test after overhauling of motor.				
1. AC Compressor 1 – 11kw				
2. AC Compressor 2 – 11kw				
3. AHU MOTOR – 2.2KW				
4. ASD COMP. EXT. FAN – 0.15KW				
5. AC COOLING PUMP – 1.5KW				
6. ENGINE ROOM BLOWER 1 – 5.7KW				
7. ENGINE ROOM BLOWER 2 – 5.7KW				
8. ANCHOR WINCH – 1.5KW				
9. KFW PLANT MOTOR – 0.34KW				
10. FOT MOTOR – 1.2KW				
11. FRESH WATER MOTOR 1 – 2.2KW				
12. FRESH WATER MOTOR 2 – 2.2KW				
13. SEWAGE CIRCULATION – 0.55KW				
14. SEWAGE TRANSFER – 0.25				
15. SUBMERSIBLE PUMP - 70TPH				
16. SUBMERSIBLE PUMP - 20TPH				
17. FIRE AND GS PUMP – 5.5KW				
18. BILGE AND GS PUMP – 5.5KW				
19. LUBRICATION OIL MOTOR – 0.58KW				
20. WC VENTILATIONS – 0.158KW				
21. GRAY WATER PUMP 1.1KW				
22. GALLEY EXHAUST FAN - 0.158KW				
23. SEA WATER PUMP – 0.37KW				

