

दूरभाष: २३०६/ Tele: 2306

सम्मिश्र जांच दल/ Composite Trials Team  
द्वारा नौसेना कार्यालय/ c/o Navy Office  
मुख्यालय/ Headquarter  
अन्डमान एवं निकोबार कमान/  
Andaman & Nicobar Command  
पोर्ट ब्लेयर ७४४ १०२/ Port Blair 744 102

CTT/300/03/14/TECH

20 नवम्बर 23/Nov 23

प्रधान सेनापति/ The Commander-in-Chief  
{(कृते कमान तकनीकी अधिकारी (समुद्री)/ for CTO(Marine))}  
मुख्यालय/ Headquarters  
अन्डमान एवं निकोबार कमान/ Andaman and Nicobar Command  
द्वारा नौसेना कार्यालय/ c/o Navy Office  
पोर्ट ब्लेयर ७४४ १०२/ Port Blair 744 102

### **DIESEL ENGINE HEALTH MONITORING INSPECTION (DEHMI) – /N LCU L-56**

1. DEHMI (Harbour Inspection) of Both Main Engines of /N LCU L-56 was carried out on 14 Nov 23. Detailed report of the same is placed at **Enclosure**.

2. **Observations.**

- (a) Service log book not held.
- (b) EMAPS not updated.
- (c) Bilge plate not secured.
- (d) Rubber inserts missing from supporting clamps at various locations.
- (e) Wire braided hoses of SME fuel system rusted.
- (f) Lub oil advance analysis report not held.
- (g) Lub oil leakage from SME gear box pressure switch.
- (h) SME sea water system bellow rusted.
- (j) Salt deposit in thermometer of sea water system.
- (k) Lub oil centrifuge not in use.
- (l) Coolant test kit not held.
- (m) Calibration certificates of instrumentation not held.

3. **Recommendations.**

- (a) Liquidation of observations mentioned at Para 3 above prior conducting full power trials of main engines as part of DEHMI.
- (b) Ship to forward report of FPT for further analysis and submission to HQANC.



(एस सी विलियम/ S C William)  
कमांडर/ Commander  
प्रभारी अधिकारी/ Officer-in-Charge

**Encl:** - As above

**Copy to:** -

नौसेना खण्ड सेनापति/ The Naval Component Commander  
{कृते वरिष्ठ कर्मचारी अधिकारी (यांत्रिकी)/ for SSO (Tech)}  
मुख्यालय नौसेना खण्ड/ Headquarters Naval Component  
द्वारा नौसेना कार्यालय/ c/o Navy Office  
पोर्ट ब्लेयर ७४४१०२/ Port Blair 744 102

कमान अधिकारी/ The Commanding Officer  
आई एन एल सी यू एल५६/ IN LCU L56  
द्वारा नौसेना कार्यालय/ c/o Navy Office  
पोर्ट ब्लेयर ७४४ १०२/ Port Blair 744 102



**DIESEL ENGINE HEALTH MONITORING INSPECTION (DEHMI)**  
**MAIN ENGINES – /N LCU L-56**

1. **Status of Documents and Engine Data.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Diesel Service Log Book	Unsat	Unsat
(b)	EMAPS/ Kalamazoo	Unsat	Unsat
(c)	Running Log Book	Sat	Sat
(d)	Engine Serial No.	527109988	527109989
(e)	Running Hours since installation	5677.40	5789.50

2. **External State of Engine.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Condition of Durites/ compensators	Sat	Sat
(b)	Condition of SV mounts & application of Necol Lacquer	Sat	Sat
(c)	System Pipelines well supported and free of leaks	Unsat	Unsat
(d)	Filter Drains clear	Sat	Sat
(e)	Status of bilge platform in the immediate of vicinity of engine	Unsat	Unsat

3. **Status of Air Intake.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Cleanliness of air intake filter	Sat	Sat
(b)	Perforated sheet for corrosion and intactness of securing (where applicable)	Sat	Sat
(c)	Cleanliness of air intake trucking	NA	NA
(d)	Intake drain clear	NA	NA
(e)	Air Intake restriction measuring instrument	Ops	Ops
(f)	Status of Vacuum Indicators	Sat	Sat
(g)	Status of Durites/ compensators	Sat	Sat

4. **Status of Exhaust System.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Securing of exhaust trucking supports and load hangers	Sat	Sat
(b)	Intactness of hot tagging	Sat	Sat
(c)	Status of corrosion on exhaust funnel/flap/ball valve	Sat	Sat
(d)	Condition of Exhaust drain pipeline	Sat	Sat
(e)	Intactness of exhaust trucking	Sat	Sat
(f)	Exhaust back pressure measuring point accessible	NA	NA



5. **Starting Air System.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Condition of Durites/ braided hoses	Sat	Sat
(b)	Status of air starting valve	Sat	Sat
(c)	Working of auto/ manual drain valve of air compressor	Sat	Sat

6. **Fuel System.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Condition of fuel filters	Sat	Sat
(b)	Status of fuel centrifuge	Sat	Sat
(c)	Fuel leakages	Sat	Sat
(d)	Condition of wire-braided hoses	Unsat	Sat

7. **Lub Oil System.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Outcome of last lub oil analysis		
	Basic	Sat	Sat
	Advanced	Unsat	Unsat
(b)	Status of lub oil Centrifuge	Unsat	Unsat
(c)	Oil leakages	Unsat	Sat
(d)	Date of last cooler cleaning	Initial	Initial
(e)	Status of Durites/ compensators	Sat	Sat
(f)	Lub Oil Test Kit status	Sat	Sat

8. **Coolant/ Fresh Water System.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Outcome of last coolant analysis	Sat	Sat
(b)	Condition of Gauge glass of expansion tank	NA	NA
(c)	Status of Coolant system	Sat	Sat
(d)	Date of last cooler cleaning	Dec 22	Initial
(e)	Coolant Test Kit status	Not Held	

9. **Sea Water System**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Status of sea water system	Sat	Unsat
(b)	Condition of durites/ compensator	Unsat	Sat
(c)	Status of suction Strainer	Sat	Sat
(d)	Status of Zinc plugs	Sat	Sat

10. **Clearance Check.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Tappet clearance	Sat	Sat
(b)	Intake Valve	0.2	0.2
(c)	Exhaust Valve	0.6	0.6

11. **Instrumentation & Control Check.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Insulation of control system panels	Sat	Sat
(b)	Status of calibration of all instrumentation	Unsat	Unsat
(c)	Status of thermometer/ thermocouples/ pressure sensors	Sat	Sat
(d)	Thermometer- Total Non-Ops	Sat	01
(e)	Thermocouples - Total Non-ops	Sat	Sat
(f)	Pressure gauge - Total Non-ops	Ops	Ops
(g)	Number of faulty Alarms/ Relays	Sat	Sat
(h)	Blow by measurement tool/ provision	NA	NA

12. **Ventilation System.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Status of compartment Ventilation	Sat	Sat
(b)	Average compartment Temperature at four corners/ Ambient air temperature	Sat	Sat
(c)	Status of compartment/ bilge coolers		
	(i) Compartment cooler	NA	NA
	(ii) Bilge cooler	NA	NA

13. **Fire Fighting System.**

<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
Status of machinery compartment firefighting system	Ops	Ops

14. **Performance Trials Details.**

<b><u>Ser</u></b>	<b><u>Check</u></b>	<b><u>Stbd</u></b>	<b><u>Port</u></b>
(a)	Max ERPM achieved during CST	1803	1803
(b)	Max ship's speed achieved during CST	15 Knot	15 Knot
(c)	Max ERPM achieved during last	1800	1800
(d)	Max ships speed achieved during last FPT	14 Knot	14 Knot
(e)	Max torsion meter readings	25 KNm	25 KNm
(f)	Present status of Torsion meter	Ops	Ops
(g)	Date of last SDC	10 Jul 23	10 Jul 23