

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/300/02/06

30 अगस्त 23/Aug 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

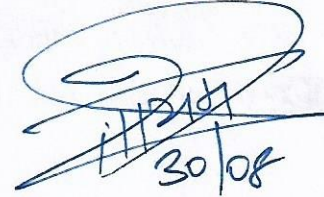
DIESEL ENGINE HEALTH MONITORING INSPECTION (DEHMI) OF BOTH MAIN ENGINES
INS KESARI

1. Refer to the following: -
 - (a) INS Kesari letter 343/3/8 dated 08 Aug 23.
 - (b) Unit letter CTT/300/02/06/TECH dated 24 Aug 23.
 - (c) Unit letter CTT/300/ENGG/GEN dated 21 Jul 23.
2. DEHMI (Harbour Inspection) of both Main Engines of INS Kesari was carried out on 24 Aug 23 and report of the same is placed at **Enclosure**.
3. **Observations**.
 - (a) Following report not held:-
 - (i) Calibration certificate of relief valve of both main engines.
 - (ii) Advance analysis report of lub oil.
 - (b) Sea water temperature gauge at cooler inlet of port gear box not working.
 - (c) Sea water leakage observed from gland of sea chest valve of SME.
 - (d) Thermometer of sea water inlet line of SME not in place.

- (e) Rubber inserts not placed between supporting clamps at various locations in system lines of both main engines.
- (f) Junction box cover of port main engine not fitted.
- (g) Foundation of both main engines not cleaned.

4. **Recommendations.**

- (a) Liquidate of observations mentioned at Para 3 above prior conducting full power trials.
- (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 ७४४ १०२/ Port Blair 744 102

कमान अधिकारी/ The Commanding Officer

आई एन एस केसरी/ INS Kesari

द्वारा नौसेना कार्यालय/ c/o Navy Office

पोर्ट ब्लेयर ७४४ १०२/ Port Blair 744 102

DEHMI OF BOTH MAIN ENGINES - INS KESARI

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

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>
(a)	Diesel Service Log Book	Sat	Sat
(b)	EMAPS/ Kalamazoo	Sat	Sat
(c)	Running Log Book	Sat	Sat
(d)	Engine Serial No.	722004/041	722004/042
(e)	Running Hours since installation	25594.05	24727.40

2. **External State of Engine.**

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>	<u>Remarks</u>
(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	Rubber inserts for supporting clamps not available at various locations.
(d)	Filter Drains clear	Sat	Sat	
(e)	Status of bilge platform in the immediate of vicinity of engine	Unsat	Unsat	Not cleaned

3. **Status of Air Intake.**

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>
(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	Sat	Sat
(d)	Intake drain clear	Sat	Sat
(e)	Air Intake restriction measuring instrument	NA	NA
(f)	Status of Vacuum Indicators	Sat	Sat
(g)	Status of Durites/ compensators	Sat	Sat

4. **Status of Exhaust System.**

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>
(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	Sat	Sat

5. **Starting Air System.**

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>
(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.**

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>
(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	Sat	Sat

7. **Lub Oil System.**

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>	<u>Remarks</u>
(a)	Outcome of last lub oil analysis			
	Basic	Sat	Sat	
	Advanced	Unsat	Unsat	Advance report not held.
(b)	Status of lub oil Centrifuge	Ops	Ops	
(c)	Oil leakages	Sat	Sat	
(d)	Date of last cooler cleaning	Mar 21	Mar 21	
(e)	Status of Durites/ compensators	Sat	Sat	
(f)	Lub Oil Test Kit status	-	-	Demand outstanding

8. Coolant/ Fresh Water System.

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>	<u>Remarks</u>
(a)	Outcome of last coolant analysis	Sat	Sat	
(b)	Condition of Gauge glass of expansion tank	Sat	Sat	
(c)	Status of Coolant system	Sat	Sat	
(d)	Date of last cooler cleaning	Mar 21	Mar 21	
(e)	Coolant Test Kit status	-	-	Demand outstanding

9. Sea Water System

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

10. Clearance Check.

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>
(a)	Tappet clearance	Sat	Sat
(b)	Intake Valve	0.05	0.05
(c)	Exhaust Valve	0.50	0.50

11. Instrumentation & Control Check

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>	<u>Remarks</u>
(a)	Insulation of control system panels	Sat	Sat	
(b)	Status of calibration of all instrumentation	Unsat	Unsat	Calibration certificate of relief valve not held
(c)	Status of thermometer/ thermocouples/ pressure sensors	Sat	Sat	
(d)	Thermometer- Total Non-Ops	Sat	01 Unsat	
(e)	Thermocouples - Total Non-ops	Sat	Sat	
(f)	Pressure gauge - Total Non-ops	Ops	01-Non-Ops	
(g)	Number of faulty Alarms/ Relays	Sat	Sat	
(h)	Blow-by measurement tool/ provision	Sat	Sat	

12. **Ventilation System**

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>
(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**

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

14. **Performance Trials Details**

<u>Ser</u>	<u>Check</u>	<u>Stbd</u>	<u>Port</u>
(a)	Max ERPM achieved during CST	1050	1050
(b)	Max ship's speed achieved during CST	15.4 Kn	15.4 Kn
(c)	Max ERPM achieved during last FPT	1030	1040
(d)	Max ships speed achieved during last FPT	15.4	15.4 Kn
(e)	Max torsion meter readings	70 KNm	86 KNm
(f)	Present status of Torsion meter	Ops	Ops
(g)	Date of last SDC	06 Mar 23	06 Mar 23