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सम्मिश्र जांच दल/ Composite Trials Team
द्वारा नेवी कार्यालय/ C/o Navy Office
मुख्यालय/ Headquarter
अन्दमान एवं निकोबार कमान/
Andaman & Nicobar Command
पोर्ट ब्लेयर/ Port Blair - 744 102

CTT/300/11/03/TECH

22 Feb 23

The Commander-in-Chief
{for CTO (Marine)}
Headquarters
Andaman & Nicobar Command
Port Blair – 744 102

DEHMI – INS CORA DIVH

1. Refer to HQANC latter ANC/42004/EG/8/1 dated 14 Feb 23.
2. **Background.** DEHMI (Harbour Inspection) of Main Engines of INS Cora Divh was carried out on 17 Feb 23. Detailed report of the same is placed at **Enclosure**.
3. **Observations.** Following observed during checks: -
 - (a) System pipeline marking and colour coding incomplete.
 - (b) Instrumentation tallies not in place.
4. **Recommendation.** Following recommended: -
 - (a) Liquidate observations mentioned at Para 3 above prior conducting Full Power Trials (FPT) of main engines as part of DEHMI.
 - (b) Ship to forward report of FPT to this office for further analysis & recommendations and submission to HQANC.



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

Encl: - As above

Copy to:-

The Component Commander
{for Staff Officer (E)}
Headquarters Naval Component
c/o Navy Office
Port Blair – 744 102

The Commanding Officer
INS Cora Divh
c/o Navy Office
Port Blair – 744 102

DIESEL ENGINE HEALTH MONITORING INSPECTION (DEHMI) – MAIN ENGINES

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

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Diesel Service Log Book	√	√	√	
(b)	EMAPS/ Kalamazoo	√	√	√	
(c)	Running Log Book	√	√	√	
(d)	Engine Serial No.	527101987	527103937	527104371	
(e)	Running Hours since installation	10092.30	10272.05	10236.59	

2. **External State of Engine.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Condition of durites/ compensators	Sat	Sat	Sat	Sat
(b)	Condition of SV mounts & application of Necol Lacquer	Sat	Sat	Sat	
(c)	System Pipelines well supported and free of leaks	Sat	Sat	Sat	
(d)	Filter Drains clear	Sat	Sat	Sat	
(e)	Status of bilge platform in the immediate of vicinity of engine	Sat	Sat	Sat	

3. **Status of Air Intake.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Cleanliness of air intake filter	Sat	Sat	Sat	Sat
(b)	Perforated sheet for corrosion and intactness of securing (where applicable)	NA	NA	NA	
(c)	Cleanliness of air intake trunking	NA	NA	NA	
(d)	Intake drain clear	NA	NA	NA	
(e)	Air Intake	NA	NA	NA	

	restriction measuring instrument				
(f)	Status of Vacuum Indicators	Sat	Sat	Sat	Sat
(g)	Status of durites/ compensators	Sat	Sat	Sat	

4. **Status of Exhaust System.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Securing of exhaust trunking supports and load hangers	Sat	Sat	Sat	Sat
(b)	Intactness of hot tagging	Sat	Sat	Sat	
(c)	Status of corrosion on exhaust funnel/flap/ball valve	Sat	Sat	Sat	
(d)	Condition of Exhaust drain pipeline	Sat	Sat	Sat	
(e)	Intactness of exhaust trunking	Sat	Sat	Sat	
(f)	Exhaust back pressure measuring point accessible	NA	NA	NA	

5. **Starting Air System.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Condition of durites/ braided hoses	Sat	Sat	Sat	Sat
(b)	Status of air starting valve	Sat	Sat	Sat	
(c)	Working of auto/ manual drain valve of air compressor	Sat	Sat	Sat	

6. **Fuel System.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Condition of fuel filters	Sat	Sat	Sat	Sat
(b)	Status of fuel centrifuge	Ops	Ops	Ops	
(c)	Fuel leakages	Sat	Sat	Sat	
(d)	Condition of wire-braided hoses	Sat	Sat	Sat	

7. Lub Oil System.

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Outcome of last lub oil analysis				Sat
	Basic	Sat	Sat	Sat	
	Advanced	Sat	Sat	Sat	
(b)	Status of lub oil Centrifuge	NA	NA	NA	
(c)	Oil leakages	Sat	Sat	Sat	
(d)	Date of last cooler cleaning	NR-17	NR-17	NR-17	
(e)	Status of durites/compensators	Sat	Sat	Sat	
(f)	Lub Oil Test Kit status	Sat	Sat	Sat	

8. Coolant/ Fresh Water System.

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Outcome of last coolant analysis	Sat	Sat	Sat	Sat
(b)	Condition of Gauge glass of expansion tank	NA	NA	NA	
(c)	Status of Coolant system	Sat	Sat	Sat	
(d)	Date of last cooler cleaning	NR-17	NR-17	NR-17	
(e)	Coolant Test Kit status	NA	NA	NA	

9. Sea Water System

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Status of sea water system	Sat	Sat	Sat	Sat
(b)	Condition of durites/ compensator	Sat	Sat	Sat	
(c)	Status of suction Strainer	Sat	Sat	Sat	
(d)	Status of Zinc plugs	Sat	Sat	Sat	

10. Clearance Check.

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Tappet clearance				
(b)	Intake Valve (limit :0.20)	0.20	0.20	0.20	
(c)	Exhaust Valve (limit :0.50)	0.50	0.50	0.50	

11. Instrumentation & Control Check

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Insulation of control system panels	Sat	Sat	Sat	Sat
(b)	Status of calibration of all instrumentation	Sat	Sat	Sat	
(c)	Status of thermometer/ thermocouples/ pressure sensors	Sat	Sat	Sat	
(d)	Thermometer- Total Non-Ops	NA	NA	NA	
(e)	Thermocouples - Total Non-ops	Sat	Sat	Sat	
(f)	Pressure gauge - Total Non-ops	Sat	Sat	Sat	
(g)	Number of faulty Alarms/ Relays	Sat	Sat	Sat	
(h)	Blowby measurement tool/ provision	NA	NA	NA	

12. Ventilation System

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Status of compartment Ventilation	Sat	Sat	Sat	
(b)	Average compartment Temperature at four corners/ Ambinent air temperature	42°C	42°C	42°C	
(c)	Status of compartment/ bilge coolers	NA	NA	NA	
(d)	Date of last cooler cleaning				
	(i) Compartment cooler	NA	NA	NA	
	(ii) Bilge cooler	NA	NA	NA	

13. Fire Fighting System

<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
Status of machinery compartment firefighting system	Ops	Ops	Ops	Sat

14. Performance Trials Details

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>CENTRE</u>	<u>REMARKS</u>
(a)	Max ERPM achieved during CST	2100	2100	2100	
(b)	Max ship's speed achieved during CST	34.2 Knots			
(c)	Max ERPM achieved during last	1950	2050	2050	
(d)	Max ships speed achieved during last FPT	27 Knots			
(e)	Max torsion meter readings	NA			
(f)	Present status of Torsion meter	NA			
(g)	Date of last SDC	28 Dec 22	28 Dec 22	28 Dec 22	By CTT(PBR)