

दूरभाष: २३०६/ Tele: 2306

सम्मिश्र जांच दल/ Composite Trials Team
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Andaman & Nicobar Command
पोर्ट ब्लेयर ७४४१०२/ Port Blair 744 102

CTT/300/03/13TECH

21 नवम्बर २३/ Nov 23

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

FULL LOAD TRIALS OF DA NO. 3 (350 KW) POST 12K ROUTINE - /N LCU L-55

1. **Background.** Verbal directives of HQANC were issued regarding conduct of full load trials of DA 3 onboard /N LCU L-55 post 12k routine. Notwithstanding receipt of in-house trials report, SDCs, performance checks, vibration and attenuation checks of DA No. 3 (350kW) onboard /N LCU L-55 was undertaken on 20-21 Nov 23. DA was loaded up to max sustained load of 100% (350 kW) on load bank for a duration of 02 hours.

2. **Performance Parameters.** Detailed report of the same is placed at **Enclosure I**. The salient parameters are as follows: -

Ser	Parameter	Unit	Range	Remarks
(a)	Lub Oil Presssure	Bar	4.6-3.7	SAT
(b)	Lub Oil Temperature	°C	64-97	
(c)	Fresh Water Temperature	°C	57-86	
(d)	Exhaust Temperature	°C	266-540	

3. **Vibration Analysis.** Vibration trials were undertaken at 60% and 100% of rated load and found SAT.

4. **Observations.**

(a) **Safety Hazards.**

- (i) Bilge plates not secured as per extant policy.
- (ii) Plastic conduits used for securing of control wiring.
- (b) Attenuation across two mounts found **UNSAT** at 60% and 100% of rated load.
- (c) Physical condition of SV mounts **UNSAT** (photograph placed at **Enclosure II**)

- (d) Sea Water pressure reading not available in IPMS panel.
- (e) **Electrical.**
- (i) Frequency transient trials (0-70% load) **UNSAT.**
- (ii) SPM of alternator DE & NDE at no load & full load in **Yellow Zone.**
- (iii) Switch board PPU meter calibration certificate held, however difference of up to 10kW load observed between load bank & switch board.
- (iv) Unattended/Attended paralleling trials **not offered.**

5. **Recommendations.**

- (a) Liquidation of defects/ observations mentioned at para 4 ibid.
- (b) Governor response for frequency transient trials **UNSAT.**
- (c) Issue w.r.t to high SPM in alternator to be taken up with OEM. CTT letter of even number dated 24 Feb 23 refers.



(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
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कमान अधिकारी/ The Commanding Officer
आई एन एल सी यू एल५५/ IN LCU L55
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